

# AFPC

**Sample**

**2009-06**

**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	3	11.72	0.11
Ammoniacal Nitrogen, Other		001.99	10	11.81	0.08
Method Group 001.XX PCT			13	11.79	0.11
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.90	0.05
Total Nitrogen, Salicylic	955.04d	010.12	1	11.74	0.00
Total Nitrogen, Combustion	993.13	010.60	27	11.83	0.19
Total Nitrogen, Other		010.99	3	11.85	0.36
Method Group 010.XX PCT			34	11.84	0.21
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Spectrometric	978.02	020.20	23	52.45	0.32
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	52.39	0.00
Total Phosphate, ICP	970.03	020.40	2	53.41	0.49
Total Phosphate, Other	993.13	020.99	2	53.16	0.74
Method Group 020.XX PCT			28	52.51	0.36
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	15	0.46	0.12
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.65	0.00
Method Group 030.XX PCT			16	0.48	0.15
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	15	52.01	0.29
Indirect Available Phosphate, Automated	960.02	040.40	1	52.17	0.00
Indirect Available Phosphate, Other		040.99	1	53.22	0.00
Method Group 040.XX PCT			17	52.08	0.32
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	6	52.28	0.51
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	51.40	0.11

Direct Available Phosphate, Automated	978.01	041.40	2	52.60	0.02
Direct Available Phosphate, ICP		041.50	3	51.61	0.32
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	52.28	2.24
Method Group 041.XX PCT			16	51.95	0.91
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Spectrometric	970.01	048.20	16	47.44	0.46
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	47.05	0.00
Water Soluble Phosphate, Other		048.99	1	48.17	0.00
Method Group 048.XX PCT			18	47.44	0.57
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Oxalate)		050.50	2	0.19	0.00
Soluble Potash, Other		050.99	8	0.18	0.01
Method Group 050.XX PCT			10	0.18	0.01
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	15	1.35	0.14
Free Water, Vacuum Desiccate	965.08A	060.10	3	0.56	0.17
Free Water, Other		060.99	2	1.56	0.12
Method Group 060.XX PCT			20	1.34	0.19
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	16	0.33	0.02
Acid Soluble Calcium, Other		101.99	1	0.32	0.00
Method Group 101.XX PCT			17	0.33	0.02
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	17	1.02	0.05
Method Group 121.XX PCT			17	1.02	0.06
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	3	1.21	0.04
Sulfur, Spectrometric		144.70	2	1.16	0.00
Sulfur, Other		144.99	7	1.18	0.05
Method Group 144.XX PCT			12	1.18	0.04
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other		145.99	7	1.37	0.31
Method Group 145.XX PCT			7	1.37	0.38

**TOTAL ARSENIC**

Total Arsenic, ICP	980.02(b)	151.02	6	13	0.5
Total Arsenic, Other		151.99	1	11	0.0
Method Group 151.XX PPM			7	13	1.3

**ACID SOLUBLE BORON**

Acid Soluble Boron, Other		165.99	3	34	104.6
Method Group 165.XX PPM			3	34	127.4

**TOTAL CADMIUM**

Total Cadmium, ICP		181.30	10	3	0.2
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			11	3	0.2

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

ICP, %			15	1.87	0.06
Water Soluble Chlorine, Other, %		190.99	1	1.82	0.00
Method Group 190.XX PCT			16	1.87	0.07

**TOTAL CHROMIUM**

Total Chromium, ICP		191.30	11	85	5.8
Total Chromium, Other		191.99	1	79	0.0
Method Group 191.XX PPM			12	84	7.6

**ACID SOLUBLE COBALT**

Acid Soluble Cobalt, ICP		202.30	8	3	0.5
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			9	3	0.5

**ACID SOLUBLE COPPER**

Acid Soluble Copper, ICP		221.30	8	9	2.0
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			9	9	2.9

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

Acid Soluble Iron, ICP		241.30	17	1.45	0.05
Method Group 241.XX PCT			17	1.45	0.06

**TOTAL LEAD**

Total Lead, ICP		251.30	8	2	0.6
Total Lead, Other		251.99	1	2	0.0

Method Group 251.XX PPM			9	2	0.6
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a	261.30	6	356	18.3
Acid Soluble Manganese, Other		261.99	5	347	6.3
Method Group 261.XX PPM			11	348	16.6
<b>TOTAL MERCURY</b>					
Total Mercury, Other		281.99	1	2	0.00
Method Group 281.XX PPM			1	2.00	0.00
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	9	16	1.1
Total Molybdenum, Other		289.99	1	16	0.0
Method Group 289.XX PPM			10	16	1.0
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	9	12	1.0
Total Nickel, Other		291.99	1	13	0.0
Method Group 291.XX PPM			10	12	1.5
<b>TOTAL SELENIUM</b>					
Total Selenium, ICP		301.30	1	2	0.0
Method Group 301.XX PPM			1	2	0.0
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.24	0.00
Sodium, Other		311.99	9	0.23	0.06
Method Group 311.XX PCT			10	0.23	0.05
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP		321.30	8	64.4	3.4
Acid Soluble Zinc, Other		321.99	2	59.5	0.7
Method Group 321.XX PPM			10	63.7	4.8
<b>FLUORIDE</b>					
Volumetric		325.10	13	1.91	0.13
Distilled/Electrode		325.99	2	1.87	0.01
Method Group 325.XX PCT			15	1.89	0.14