

# AFPC

**Sample**

**2007-03**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	17.92	0.13
Ammoniacal Nitrogen, Other		001.99	8	17.99	0.04
Method Group 001.XX PCT			10	17.99	0.09
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	18.10	0.12
Total Nitrogen, Salicylic	955.04d	010.12	2	18.06	0.01
Total Nitrogen, Combustion	993.13	010.60	31	18.09	0.11
Total Nitrogen, Other		010.99	6	18.05	0.12
Method Group 010.XX PCT			42	18.08	0.14
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	4	46.80	0.21
Total Phosphate, Spectrometric	978.02	020.20	16	46.40	0.29
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.10	0.00
Total Phosphate, Automated	970.03	020.40	4	46.55	0.07
Total Phosphate, Other	993.13	020.99	1	45.90	0.00
Method Group 020.XX PCT			26	46.55	0.38
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.11	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	8	0.11	0.03
Insoluble Phosphate, Automated	978.01	030.40	3	0.17	0.03
Insoluble Phosphate, ICP		030.50	2	0.14	0.00
Method Group 030.XX PCT			14	0.13	0.05
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	46.52	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	46.45	0.26
Indirect Available Phosphate, Automated	960.02	040.40	4	46.39	0.06
Indirect Available Phosphate, Other		040.99	1	46.23	0.00

Method Group 040.XX PCT			15	46.41	0.26
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	9	46.50	0.29
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	46.23	0.00
Direct Available Phosphate, Automated	978.01	041.40	4	46.31	0.53
Direct Available Phosphate, ICP		041.50	5	46.13	0.35
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	46.59	0.11
Direct Available Phosphate, Other		041.99	1	46.51	0.00
Method Group 041.XX PCT			23	46.36	0.36
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	42.72	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	9	42.05	0.10
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	40.65	0.00
Water Soluble Phosphate, Other		048.99	5	42.02	0.19
Method Group 048.XX PCT			16	42.05	0.25
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Citrate)		050.51	3	0.14	0.43
Soluble Potash, Other		050.99	7	0.13	0.01
Method Group 050.XX PCT			10	0.14	0.02
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	15	1.80	0.18
Free Water, Vacuum Desiccate	965.08A	060.10	2	1.88	0.07
Method Group 060.XX PCT			17	1.80	0.24
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	15	0.32	0.02
Method Group 101.XX PCT			15	0.32	0.03
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.78	0.00
Acid Soluble Magnesium, ICP		121.30	15	0.80	0.04
Method Group 121.XX PCT			16	0.80	0.04
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	2	1.58	0.01
Sulfur, Gravimetric	980.02(b)	144.02	2	1.63	0.01

Sulfur, Other		144.99	13	1.49	0.05
Method Group 144.XX PCT			17	1.52	0.06
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	3	10	0.1
Total Arsenic, Other		151.99	4	9	0.2
Method Group 151.XX PPM			7	10	0.6
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Spectrometric	982.02	165.00	1	60	0.0
Acid Soluble Boron, Other		165.99	2	256	160.0
Method Group 165.XX PPM			3	60	194.9
<b>TOTAL CADMIUM</b>					
Total Cadmium, Atomic Absorbtion		181.00	2	4	0.2
Total Cadmium, ICP		181.30	9	5	0.6
Method Group 181.XX PPM			11	5	0.8
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			14	1.59	0.06
Water Soluble Chlorine, Other, %		190.99	2	1.80	0.03
Method Group 190.XX PCT			16	1.59	0.10
<b>TOTAL CHROMIUM</b>					
Total Chromium, Atomic Absorbtion		191.00	1	82	0.0
Total Chromium, ICP		191.30	8	75	6.2
Method Group 191.XX PPM			9	76	8.8
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	5	4	0.3
Method Group 202.XX PPM			5	4	0.3
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, ICP		221.30	4	1	0.0
Method Group 221.XX PPM			4	1	0.0
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, Atomic Absorption	980.01	241.00	2	1.62	0.03
Acid Soluble Iron, ICP		241.30	15	1.67	0.05
Method Group 241.XX PCT			17	1.66	0.07

**TOTAL LEAD**

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Total Lead, Atomic Absorbtion		251.00	1	1	0.0
Total Lead, ICP		251.30	2	2	0.1
Method Group 251.XX PPM			3	2	0.3
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, Atomic Absorption	972.02a	261.00	1	305	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	7	310	9.3
Method Group 261.XX PPM			8	308	9.1
<b>WATER SOLUBLE MANGANESE</b>					
Method Group 271.XX PCT			1	0.04	0
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	5	13	1.6
Method Group 289.XX PPM			5	13	2.0
<b>TOTAL NICKEL</b>					
Total Nickel, Atomic Absorbtion		291.00	1	12	0.0
Total Nickel, ICP		291.30	8	17	1.0
Method Group 291.XX PPM			9	17	1.3
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	2	0.19	0.00
Sodium, Other		311.99	7	0.22	0.02
Method Group 311.XX PCT			9	0.21	0.03
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP		321.30	8	67	1.1
Method Group 321.XX PPM			8	67	1.3
<b>FLUORIDE</b>					
Electrode		325.10	13	2.31	0.21
Distilled/Electrode		325.99	3	2.42	0.04
Method Group 325.XX PCT			16	2.31	0.24