

# AFPC

**Sample**

**2010-04**

**Grade**

**10-40-0-10**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.95	0.00
Ammoniacal Nitrogen, Other		001.99	8	11.91	0.02
Method Group 001.XX PCT			9	11.91	0.03
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Combustion	993.13	010.60	4	11.90	0.02
Total Nitrogen, Other		010.99	1	11.85	0.00
Method Group 010.XX PCT			5	11.89	0.04
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Spectrometric	978.02	020.20	12	41.12	0.10
Total Phosphate, ICP, Lithium	970.02	020.50	1	41.00	0.00
Method Group 020.XX PCT			13	41.11	0.11
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	9	0.48	0.25
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.25	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.49	0.00
Insoluble Phosphate, ICP		030.50	1	0.37	0.00
Method Group 030.XX PCT			12	0.48	0.30
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	40.64	0.19
Indirect Available Phosphate, ICP		040.50	1	40.63	0.00
Indirect Available Phosphate, Other		040.99	1	40.66	0.00
Method Group 040.XX PCT			12	40.64	0.18
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Other		041.99	2	40.21	0.00
Method Group 041.XX PCT			2	40.21	0.00
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Spectrometric	970.01	048.20	10	35.69	0.27

Water Soluble Phosphate, Other		048.99	2	35.61	0.00
Method Group 048.XX PCT			12	35.64	0.28
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Oxalate)		050.50	2	0.12	0.00
Soluble Potash, Other		050.99	4	0.12	0.00
Method Group 050.XX PCT			6	0.12	0.00
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	10	0.70	0.12
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.50	0.07
Method Group 060.XX PCT			12	0.67	0.13
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	12	0.35	0.02
Method Group 101.XX PCT			12	0.35	0.02
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	12	0.76	0.03
Method Group 121.XX PCT			12	0.76	0.03
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	2	8.69	0.03
Sulfur, Spectrometric		144.70	2	9.60	0.00
Sulfur, Other		144.99	7	5.17	0.07
Method Group 144.XX PCT			11	5.22	3.22
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other		145.99	3	10.19	0.02
Method Group 145.XX PCT			3	10.19	0.03
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	3		3.0
Method Group 151.XX PPM			3	0	3.7
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	1	36	0.0
Method Group 165.XX PPM			1	36	0.0
<b>TOTAL CADMIUM</b>					
Total Cadmium, ICP		181.30	3	4	0.3
Total Cadmium, Other		181.99	1	3	0.0

Method Group 181.XX PPM		4	4	0.6
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>				
ICP, %		11	1.37	0.04
Water Soluble Chlorine, Other, %	190.99	1	1.32	0.00
Method Group 190.XX PCT		12	1.37	0.04
<b>TOTAL CHROMIUM</b>				
Total Chromium, ICP	191.30	4	67	2.5
Total Chromium, Other	191.99	1	63	0.0
Method Group 191.XX PPM		5	66	3.2
<b>ACID SOLUBLE COBALT</b>				
Acid Soluble Cobalt, ICP	202.30	3	3	0.1
Acid Soluble Cobalt, Other	202.99	1	3	0.0
Method Group 202.XX PPM		4	3	0.3
<b>ACID SOLUBLE COPPER</b>				
Acid Soluble Copper, ICP	221.30	2	2	0.0
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		3	2	0.3
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>				
Acid Soluble Iron, ICP	241.30	12	1.50	0.04
Method Group 241.XX PCT		12	1.50	0.05
<b>TOTAL LEAD</b>				
Total Lead, ICP	251.30	2	1	0.0
Total Lead, Other	251.99	1	2	0.0
Method Group 251.XX PPM		3	1	0.3
<b>ACID SOLUBLE MANGANESE</b>				
Acid Soluble Manganese, ICP	972.02a 261.30	2	290	2.1
Acid Soluble Manganese, Other	261.99	3	271	6.0
Method Group 261.XX PPM		5	276	15.0
<b>TOTAL MOLYBDENUM</b>				
Total Molybdenum, ICP	289.30	3	12	0.4
Total Molybdenum, Other	289.99	1	11	0.0
Method Group 289.XX PPM		4	12	0.7

Total Nickel, ICP		291.30	3	14	0.2
Total Nickel, Other		291.99	1	16	0.0
Method Group 291.XX PPM			4	14	0.5
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.16	0.00
Sodium, Other		311.99	5	0.17	0.01
Method Group 311.XX PCT			6	0.16	0.01
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP		321.30	8	1.0	0.0
Method Group 321.XX %			8	1.0	0.1
<b>FLUORIDE</b>					
Volumetric		325.10	9	1.67	0.12
Distilled/Electrode		325.99	3	1.67	0.13
Method Group 325.XX PCT			12	1.67	0.13