

# AFPC

**Sample**

**2010-10**

**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	10.72	0.09
Ammoniacal Nitrogen, Other		001.99	11	10.83	0.05
Method Group 001.XX PCT			13	10.83	0.04
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	10.99	0.00
Total Nitrogen, Combustion	993.13	010.60	7	10.98	0.03
Total Nitrogen, Other		010.99	1	10.93	0.00
Method Group 010.XX PCT			9	10.98	0.04
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Spectrometric	978.02	020.20	16	52.36	0.26
Total Phosphate, ICP, Lithium	970.02	020.50	1	52.33	0.00
Method Group 020.XX PCT			17	52.33	0.30
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	13	0.05	0.02
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.03	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.03	0.00
Insoluble Phosphate, ICP		030.50	1	0.04	0.00
Method Group 030.XX PCT			16	0.04	0.02
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	12	52.40	0.12
Indirect Available Phosphate, ICP		040.50	1	52.08	0.00
Indirect Available Phosphate, Other		040.99	1	52.15	0.00
Method Group 040.XX PCT			14	52.39	0.26
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Automated	978.01	041.40	2	51.40	0.01
Method Group 041.XX PCT			2	51.40	0.01

**WATER SOLUBLE PHOSPHATE**

AFPC Check Sample  
10-2010

Water Soluble Phosphate, Spectrometric	970.01	048.20	14	45.98	0.20
Water Soluble Phosphate, Other		048.99	2	45.95	0.04
Method Group 048.XX PCT			16	45.97	0.17
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Oxalate)		050.50	4	0.35	0.00
Soluble Potash, Other		050.99	4	0.34	0.03
Method Group 050.XX PCT			8	0.35	0.01
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	14	3.26	0.15
Free Water, Vacuum Desiccate	965.08A	060.10	2	3.68	0.04
Method Group 060.XX PCT			16	3.27	0.31
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	14	0.38	0.02
Method Group 101.XX PCT			14	0.38	0.02
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	14	2.34	0.14
Method Group 121.XX PCT			14	2.34	0.16
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	3	1.23	0.05
Sulfur, Spectrometric		144.70	2	1.19	0.00
Sulfur, Other		144.99	10	1.23	0.02
Method Group 144.XX PCT			15	1.23	0.03
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	3	4	0.1
Method Group 151.XX PPM			3	4	0.1
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	1	134	0.0
Method Group 165.XX PPM			1	134	0.0
<b>TOTAL CADMIUM</b>					
Total Cadmium, Atomic Absorbtion		181.00	1	47	0.0
Total Cadmium, ICP		181.30	3	43	2.6
Total Cadmium, Other		181.99	1	48	0.0
Method Group 181.XX PPM			5	47	4.0

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

ICP, %		13	1.28	0.02
Water Soluble Chlorine, Other, %	190.99	1	1.28	0.00
Method Group 190.XX PCT		14	1.28	0.03

**TOTAL CHROMIUM**

Total Chromium, ICP	191.30	4	466	18.8
Total Chromium, Other	191.99	1	457	0.0
Method Group 191.XX PPM		5	457	19.1

**ACID SOLUBLE COBALT**

Acid Soluble Cobalt, ICP	202.30	3	3	0.5
Acid Soluble Cobalt, Other	202.99	1	2	0.0
Method Group 202.XX PPM		4	2	1.2

**ACID SOLUBLE COPPER**

Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		1	1	0.0

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

Acid Soluble Iron, ICP	241.30	14	2.23	0.04
Method Group 241.XX PCT		14	2.23	0.05

**TOTAL LEAD**

Total Lead, ICP	251.30	2	1	0.0
Method Group 251.XX PPM		2	1	0.0

**ACID SOLUBLE MANGANESE**

Acid Soluble Manganese, ICP	972.02a 261.30	2	103	2.1
Acid Soluble Manganese, Other	261.99	3	97	1.1
Method Group 261.XX PPM		5	98	3.2

**TOTAL MOLYBDENUM**

Total Molybdenum, ICP	289.30	3	19	0.9
Total Molybdenum, Other	289.99	1	20	0.0
Method Group 289.XX PPM		4	19	1.7

**TOTAL NICKEL**

Total Nickel, ICP	291.30	3	50	2.2
Total Nickel, Other	291.99	1	52	0.0
Method Group 291.XX PPM		4	51	2.5

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

Sodium, Atomic Absorbtion	983.04	311.00	1	0.33	0.00
Sodium, Other		311.99	7	0.36	0.01
Method Group 311.XX PCT			8	0.35	0.01

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**ACID SOLUBLE ZINC**

Acid Soluble Zinc, ICP		321.30	4	709.8	17.4
Method Group 321.XX %			4	709.8	21.3

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**FLUORIDE**

Volumetric		325.10	11	0.86	2.28
Distilled/Electrode		325.99	3	0.79	0.03
Method Group 325.XX PCT			14	0.82	2.11

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