

AFPC

Sample

2007-10

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	3	10.82	0.12
Ammoniacal Nitrogen, Other		001.99	6	10.73	0.03
Method Group 001.XX PCT			9	10.74	0.05
TOTAL NITROGEN					
Total Nitrogen, Reduced Iron		010.10	1	11.17	0.00
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	11.07	0.09
Total Nitrogen, Salicylic	955.04d	010.12	2	10.70	0.11
Total Nitrogen, Combustion	993.13	010.60	25	11.01	0.14
Total Nitrogen, Other		010.99	2	10.86	0.10
Method Group 010.XX PCT			35	11.02	0.19
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	52.52	0.27
Total Phosphate, Spectrometric	978.02	020.20	15	52.46	0.22
Total Phosphate, Automated	970.03	020.40	5	52.39	0.02
Method Group 020.XX PCT			22	52.42	0.26
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.03	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	9	0.04	0.01
Insoluble Phosphate, Automated	978.01	030.40	3	0.03	0.02
Insoluble Phosphate, ICP		030.50	2	0.05	0.00
Method Group 030.XX PCT			15	0.04	0.03
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	52.13	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	52.50	0.24
Indirect Available Phosphate, Automated	960.02	040.40	4	52.33	0.03
Indirect Available Phosphate, Other		040.99	1	52.46	0.00
Method Group 040.XX PCT			16	52.42	0.25

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	7	52.78	0.12
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	52.12	0.15
Direct Available Phosphate, Automated	978.01	041.40	4	52.79	0.10
Direct Available Phosphate, ICP		041.50	5	52.17	1.07
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	52.56	0.13
Method Group 041.XX PCT			21	52.56	0.43

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	46.40	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	9	46.27	0.34
Water Soluble Phosphate, Other		048.99	5	45.77	0.20
Method Group 048.XX PCT			15	46.22	0.53

SOLUBLE POTASH AS K₂O

Soluble Potash, STPB Oxalate	958.02	050.00	1	0.42	0.00
Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	1.94	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.26	0.00
Soluble Potash, Other		050.99	8	0.35	0.04
Method Group 050.XX PCT			11	0.36	0.09

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	14	3.11	0.49
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.86	0.08
Method Group 060.XX PCT			16	3.01	0.57

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.11	0.00
Acid Soluble Calcium, ICP		101.30	15	0.48	0.02
Method Group 101.XX PCT			16	0.47	0.03

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.77	0.00
Acid Soluble Magnesium, ICP		121.30	16	2.22	0.14
Method Group 121.XX PCT			17	2.20	0.15

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	5	1.05	0.07
Sulfur, Other		144.99	14	1.00	0.05

Method Group 144.XX PCT			19	1.01	0.07
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	3	5	0.9
Total Arsenic, Other		151.99	3	3	0.2
Method Group 151.XX PPM			6	3	1.4
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	2	172	39.0
Method Group 165.XX PPM			2	172	47.5
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	2	53	1.6
Total Cadmium, ICP		181.30	9	55	3.6
Total Cadmium, Other		181.99	1	64	0.0
Method Group 181.XX PPM			12	55	4.9
ALUMINUM AS Al₂O₃					
ICP, %			14	1.19	0.04
Water Soluble Chlorine, Other, %		190.99	3	1.25	0.11
Method Group 190.XX PCT			17	1.20	0.06
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	9	459	20.0
Total Chromium, Other		191.99	1	460	0.0
Method Group 191.XX PPM			10	460	22.4
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, Atomic Absorption		202.00	1	2.77	0.0
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			10	3	0.5
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	5	3	1.9
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			6	2	2.1
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, Atomic Absorption	980.01	241.00	2	1.84	0.29
Acid Soluble Iron, ICP		241.30	16	2.33	0.12

Method Group 241.XX PCT			18	2.33	0.15
TOTAL LEAD					
Total Lead, Atomic Absorbtion	251.00		1	9	0.0
Total Lead, ICP	251.30		2	1	0.0
Total Lead, Other	251.99		2	1	0.0
Method Group 251.XX PPM			5	1	0.4
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	7	120	3.5
Acid Soluble Manganese, Other		261.99	3	116	3.0
Method Group 261.XX PPM			10	120	5.8
WATER SOLUBLE MANGANESE					
Method Group 271.XX PCT			1	0.04	0
TOTAL MOLYBDENUM					
Total Molybdenum, Atomic Absorbtion	289.00		1	28	0.0
Total Molybdenum, ICP	289.30		8	20	1.8
Total Molybdenum, Other	289.99		1	23	0.0
Method Group 289.XX PPM			10	20	4.0
TOTAL NICKEL					
Total Nickel, Atomic Absorbtion	291.00		1	56	0.0
Total Nickel, ICP	291.30		8	56	2.3
Total Nickel, Other	291.99		1	67	0.0
Method Group 291.XX PPM			10	56	2.9
TOTAL SELENIUM					
Total Selenium, Other	301.99		1	0	0.0
Method Group 301.XX PPM			1	0	0.0
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	2	0.37	0.00
Sodium, Other		311.99	7	0.37	0.03
Method Group 311.XX PCT			9	0.37	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	1233	73.3
Acid Soluble Zinc, ICP		321.30	8	959	42.2
Acid Soluble Zinc, Other		321.99	2	902	0.9

Method Group 321.XX PPM		12	959	124.2
FLUORIDE				
Volumetric	325.10	9	0.76	0.04
Distilled/Electrode	325.99	2	0.82	0.03
Method Group 325.XX PCT		11	0.77	0.04