

AFPC

Sample

2009-09

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	17.71	0.00
Ammoniacal Nitrogen, Other		001.99	11	18.00	0.12
Method Group 001.XX PCT			12	18.00	0.22
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	18.08	0.08
Total Nitrogen, Salicylic	955.04d	010.12	1	17.86	0.00
Total Nitrogen, Raney	970.03	010.16	1	17.73	0.00
Total Nitrogen, Combustion	993.13	010.60	28	18.08	0.18
Total Nitrogen, Other		010.99	5	18.09	0.07
Method Group 010.XX PCT			39	18.07	0.20
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	47.23	0.36
Total Phosphate, Spectrometric	978.02	020.20	23	46.68	0.11
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.08	0.00
Total Phosphate, ICP	970.03	020.40	4	46.80	0.57
Total Phosphate, ICP, Lithium	970.02	020.50	1	45.89	0.00
Total Phosphate, Other	993.13	020.99	1	46.16	0.00
Method Group 020.XX PCT			32	46.68	0.23
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	16	0.04	0.02
Insoluble Phosphate, Automated	978.01	030.40	1	0.05	0.00
Insoluble Phosphate, Other		030.99	2	0.46	0.28
Method Group 030.XX PCT			19	0.04	0.05
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	15	46.62	0.13
Indirect Available Phosphate, Automated	960.02	040.40	1	46.66	0.00
Indirect Available Phosphate, Other		040.99	3	47.67	0.43

Method Group 040.XX PCT			19	46.64	0.16
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	6	46.83	0.63
Direct Available Phosphate, Spectrometric	960.03D	041.20	3	46.40	0.06
Direct Available Phosphate, Automated	978.01	041.40	5	46.68	0.25
Direct Available Phosphate, ICP		041.50	2	46.71	0.63
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	46.63	0.21
Direct Available Phosphate, Other		041.99	1	45.33	0.00
Method Group 041.XX PCT			22	46.61	0.49
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	16	43.70	0.33
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	42.22	0.00
Water Soluble Phosphate, Other		048.99	3	43.35	0.11
Method Group 048.XX PCT			20	43.69	0.42
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.19	0.00
Soluble Potash, Other		050.99	5	0.17	0.01
Method Group 050.XX PCT			7	0.18	0.02
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	16	1.73	0.09
Free Water, Vacuum Desiccate	965.08A	060.10	3	1.74	0.16
Free Water, Other		060.99	2	3.04	1.06
Method Group 060.XX PCT			21	1.73	0.18
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	20	0.58	0.03
Method Group 101.XX PCT			20	0.58	0.04
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	20	1.56	0.05
Method Group 121.XX PCT			20	1.56	0.06
WATER SOLUBLE MAGNESIUM					
Water Soluble Magnesium, Atomic Absorption	965.09	131.00	1	0.21	0.00
Method Group 131.XX PCT			1	0.21	0.00

SULFATE SULFUR (S)

AFPC Check Sample
9-2009

Sulfur, Gravimetric	980.02(a)	144.01	4	2.01	0.05
Sulfur, Spectrometric		144.70	2	1.91	0.00
Sulfur, Other		144.99	10	1.92	0.02
Method Group 144.XX PCT			16	1.92	0.08
TOTAL SULFUR (S)					
Sulfur, Other		145.99	6	2.09	0.15
Method Group 145.XX PCT			6	2.09	0.19
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	5	2	0.5
Method Group 151.XX PPM			5	2	0.6
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	3	82	72.1
Method Group 165.XX PPM			3	82	87.9
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	1	34	0.0
Total Cadmium, ICP		181.30	12	28	2.0
Total Cadmium, Other		181.99	1	32	0.0
Method Group 181.XX PPM			14	29	3.2
ALUMINUM AS Al₂O₃					
ICP, %			17	0.46	0.01
Method Group 190.XX PCT			17	0.46	0.01
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	12	232	19.9
Total Chromium, Other		191.99	1	228	0.0
Method Group 191.XX PPM			13	229	23.6
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	9	2	0.7
Acid Soluble Cobalt, Other		202.99	1	1	0.0
Method Group 202.XX PPM			10	1	0.9
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	1	0.0
Acid Soluble Copper, ICP		221.30	4	2	0.8
Acid Soluble Copper, Other		221.99	1	0	0.0

Method Group 221.XX PPM		5	1	0.9
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	20	0.76	0.02
Method Group 241.XX PCT		21	0.76	0.03
TOTAL LEAD				
Total Lead, ICP	251.30	4	1	0.0
Total Lead, Other	251.99	1	1	0.0
Method Group 251.XX PPM		5	1	0.0
ACID SOLUBLE MANGANESE				
Acid Soluble Manganese, ICP	972.02a 261.30	8	41	4.5
Acid Soluble Manganese, Other	261.99	5	43	0.7
Method Group 261.XX PPM		13	42	2.8
TOTAL MOLYBDENUM				
Total Molybdenum, ICP	289.30	10	4	0.7
Total Molybdenum, Other	289.99	1	4	0.0
Method Group 289.XX PPM		11	4	0.8
TOTAL NICKEL				
Total Nickel, ICP	291.30	10	18	1.5
Total Nickel, Other	291.99	1	20	0.0
Method Group 291.XX PPM		11	19	2.1
TOTAL SELENIUM				
Total Selenium, ICP	301.30	1	3	0.0
Method Group 301.XX PPM		1	3	0.0
SODIUM AS Na₂O				
Sodium, Atomic Absorbtion	983.04 311.00	1	0.31	0.00
Sodium, Other	311.99	9	0.29	0.01
Method Group 311.XX PCT		10	0.29	0.03
ACID SOLUBLE ZINC				
Acid Soluble Zinc, ICP	321.30	9	405.0	29.9
Acid Soluble Zinc, Other	321.99	2	385.5	1.5
Method Group 321.XX PPM		11	403.0	33.5
FLUORIDE				
Volumetric	325.10	15	1.29	0.06

Distilled/Electrode	325.99	2	1.32	0.01
Method Group 325.XX PCT		17	1.29	0.06
