

AFPC

Sample

2009-05

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	4	17.76	0.07
Ammoniacal Nitrogen, Other		001.99	13	17.92	0.13
Method Group 001.XX PCT			17	17.85	0.18
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	17.86	0.12
Total Nitrogen, Salicylic	955.04d	010.12	1	17.68	0.00
Total Nitrogen, Combustion	993.13	010.60	24	18.01	0.08
Total Nitrogen, Other		010.99	7	18.00	0.12
Method Group 010.XX PCT			38	18.00	0.17
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	4	46.61	0.30
Total Phosphate, Spectrometric	978.02	020.20	24	46.32	0.16
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	45.96	0.00
Total Phosphate, ICP	970.03	020.40	3	46.71	0.54
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.49	0.00
Total Phosphate, Other	993.13	020.99	2	46.28	0.24
Method Group 020.XX PCT			35	46.37	0.27
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.06	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	16	0.07	0.03
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.08	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.12	0.00
Insoluble Phosphate, Other		030.99	3	0.35	0.88
Method Group 030.XX PCT			22	0.08	0.05
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	46.48	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	15	46.28	0.11

Indirect Available Phosphate, Automated	960.02	040.40	2	46.50	0.10
Indirect Available Phosphate, ICP		040.50	1	46.41	0.00
Indirect Available Phosphate, Other		040.99	2	46.45	0.06
Method Group 040.XX PCT			21	46.36	0.14

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	7	46.63	0.37
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	46.00	0.00
Direct Available Phosphate, Automated	978.01	041.40	2	46.38	0.04
Direct Available Phosphate, ICP		041.50	3	46.42	0.56
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	46.55	0.13
Direct Available Phosphate, Other		041.99	1	43.42	0.00
Method Group 041.XX PCT			18	46.43	0.31

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	42.26	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	17	42.43	0.28
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	41.37	0.00
Water Soluble Phosphate, Other		048.99	3	42.24	0.74
Method Group 048.XX PCT			22	42.41	0.50

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Oxalate)		050.50	2	0.17	0.00
Soluble Potash, Flame Photometric(Oxalate)	983.02B(a)	050.60	1	0.12	0.00
Soluble Potash, Other		050.99	9	0.15	0.01
Method Group 050.XX PCT			12	0.15	0.03

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	21	2.17	0.18
Free Water, Vacuum Desiccate	965.08A	060.10	4	2.07	0.09
Free Water, Other		060.99	1	1.16	0.00
Method Group 060.XX PCT			26	2.12	0.24

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	21	0.25	0.03
Method Group 101.XX PCT			21	0.25	0.04

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP		121.30	21	0.84	0.06
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Method Group 121.XX PCT			21	0.84	0.07
WATER SOLUBLE MAGNESIUM					
Water Soluble Magnesium, Atomic Absorption	965.09	131.00	1	0.08	0.00
Method Group 131.XX PCT			1	0.08	0.00
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	5	1.73	0.04
Sulfur, Spectrometric		144.70	2	1.63	0.00
Sulfur, Other		144.99	11	1.67	0.04
Method Group 144.XX PCT			18	1.68	0.05
TOTAL SULFUR (S)					
Sulfur, Other		145.99	8	1.81	0.19
Method Group 145.XX PCT			8	1.81	0.23
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	6	12	1.1
Total Arsenic, Other		151.99	1	13	0.0
Method Group 151.XX PPM			7	12	1.2
ACID SOLUBLE BORON					
Acid Soluble Boron, Spectrometric	982.02	165.00	1	105	0.0
Acid Soluble Boron, Other		165.99	3	46	101.5
Method Group 165.XX PPM			4	76	101.9
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	2	4	0.2
Total Cadmium, ICP		181.30	11	3	0.6
Total Cadmium, Other		181.99	1	4	0.0
Method Group 181.XX PPM			14	3	0.7
ALUMINUM AS Al₂O₃					
ICP, %			19	1.48	0.07
Water Soluble Chlorine, Other, %		190.99	2	1.45	0.01
Method Group 190.XX PCT			21	1.47	0.07
TOTAL CHROMIUM					
Total Chromium, Atomic Absorbtion		191.00	1	80	0.0
Total Chromium, ICP		191.30	11	75	2.6
Total Chromium, Other		191.99	1	72	0.0

Method Group 191.XX PPM			13	75	3.5
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP	202.30		10	3	0.5
Acid Soluble Cobalt, Other	202.99		1	2	0.0
Method Group 202.XX PPM			11	3	0.5
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	1	0.0
Acid Soluble Copper, ICP		221.30	6	1	0.2
Method Group 221.XX PPM			6	1	0.2
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	20	1.23	0.05
Method Group 241.XX PCT			22	1.23	0.06
TOTAL LEAD					
Total Lead, Atomic Absorbtion		251.00	1	1	0.0
Total Lead, ICP		251.30	4	1	0.4
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			6	1	0.1
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02a	261.00	1	320	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	5	306	12.3
Acid Soluble Manganese, Other		261.99	8	301	6.9
Method Group 261.XX PPM			14	303	14.1
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	11	11	1.2
Total Molybdenum, Other		289.99	1	12	0.0
Method Group 289.XX PPM			12	11	1.2
TOTAL NICKEL					
Total Nickel, Atomic Absorbtion		291.00	1	9	0.0
Total Nickel, ICP		291.30	10	11	1.3
Total Nickel, Other		291.99	1	12	0.0
Method Group 291.XX PPM			12	11	1.8
TOTAL SELENIUM					
Total Selenium, ICP		301.30	3	0	0.8

Method Group 301.XX PPM			3	0	1.0
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	5	0.30	0.12
Sodium, Other		311.99	9	0.21	0.03
Method Group 311.XX PCT			14	0.21	0.04
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	86.3	28.9
Acid Soluble Zinc, ICP		321.30	9	53.7	6.5
Acid Soluble Zinc, Other		321.99	2	44.8	0.6
Method Group 321.XX PPM			13	50.0	9.2
FLUORIDE					
Volumetric		325.10	16	1.96	0.13
Electrode	AFPC	325.30	1	1.93	0.00
Distilled/Electrode		325.99	2	1.98	0.01
Method Group 325.XX PCT			19	1.96	0.12