

AFPC

Sample

2010-10

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	10.72	0.09
Ammoniacal Nitrogen, Other		001.99	16	10.83	0.04
Method Group 001.XX PCT			17	10.83	0.04
NITRATE NITROGEN					
Nitrate Nitrogen, Other		002.99	1		0.00
Method Group 002.XX PCT			1	0.00	0.00
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	10.99	0.03
Total Nitrogen, Salicylic	955.04d	010.12	2	11.46	0.33
Total Nitrogen, Combustion	993.13	010.60	25	10.94	0.17
Total Nitrogen, Other		010.99	3	10.93	0.23
Method Group 010.XX PCT			30	10.95	0.16
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	52.51	0.10
Total Phosphate, Spectrometric	978.02	020.20	25	52.12	0.41
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	52.44	0.00
Total Phosphate, Other	993.13	020.99	2	52.73	0.50
Method Group 020.XX PCT			26	52.25	0.37
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	17	0.04	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
Method Group 030.XX PCT			18	0.03	0.02
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	16	52.34	0.34
Indirect Available Phosphate, Other		040.99	1	52.15	0.00
Method Group 040.XX PCT			16	52.29	0.38

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	5	52.28	0.60
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	51.52	0.21
Direct Available Phosphate, Automated	978.01	041.40	6	51.93	0.84
Direct Available Phosphate, ICP		041.50	5	52.05	0.38
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	51.90	0.51
Direct Available Phosphate, Other		041.99	1	53.11	0.00
Method Group 041.XX PCT			21	51.97	0.93

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	47.23	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	19	45.94	0.34
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	45.13	0.00
Water Soluble Phosphate, Other		048.99	1	45.90	0.00
Method Group 048.XX PCT			19	45.93	0.38

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Oxalate)		050.50	4	0.35	0.00
Soluble Potash, Other		050.99	7	0.36	0.02
Method Group 050.XX PCT			11	0.35	0.01

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	21	3.24	0.12
Free Water, Vacuum Desiccate	965.08A	060.10	4	3.38	0.42
Method Group 060.XX PCT			21	3.24	0.20

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	18	0.37	0.02
Method Group 101.XX PCT			17	0.37	0.03

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP		121.30	18	2.32	0.15
Method Group 121.XX PCT			17	2.32	0.18

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	5	1.23	0.07
Sulfur, Spectrometric		144.70	2	1.19	0.00
Sulfur, Other		144.99	9	1.23	0.02
Method Group 144.XX PCT			14	1.23	0.03

TOTAL SULFUR (S)

Sulfur, Other	145.99	7	1.21	0.12
Method Group 145.XX PCT		6	1.21	0.13

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b) 151.02	5	4	0.5
Method Group 151.XX PPM		5	4	0.6

ACID SOLUBLE BORON

Acid Soluble Boron, Other	165.99	2	140	4.5
Method Group 165.XX PPM		2	140	5.5

TOTAL CADMIUM

Total Cadmium, Atomic Absorbtion	181.00	4	42	7.1
Total Cadmium, ICP	181.30	7	43	1.7
Total Cadmium, Other	181.99	1	48	0.0
Method Group 181.XX PPM		9	43	2.8

ALUMINUM AS Al₂O₃

ICP, %		16	1.28	0.03
Water Soluble Chlorine, Other, %	190.99	1	1.28	0.00
Method Group 190.XX PCT		16	1.28	0.03

TOTAL CHROMIUM

Total Chromium, Atomic Absorbtion	191.00	2	432	76.7
Total Chromium, ICP	191.30	8	446	16.2
Total Chromium, Other	191.99	1	457	0.0
Method Group 191.XX PPM		9	448	18.3

ACID SOLUBLE COBALT

Acid Soluble Cobalt, ICP	202.30	6	3	0.8
Acid Soluble Cobalt, Other	202.99	1	2	0.0
Method Group 202.XX PPM		6	3	0.9

ACID SOLUBLE COPPER

Acid Soluble Copper, Atomic Absorption	975.01 221.00	2	2	0.0
Acid Soluble Copper, ICP	221.30	2	0	0.2
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		2	1	0.1

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP		241.30	18	2.21	0.06
Method Group 241.XX PCT			17	2.20	0.08

TOTAL LEAD

Total Lead, Atomic Absorbtion		251.00	1	1	0.0
Total Lead, ICP		251.30	5	1	0.3
Method Group 251.XX PPM			5	1	0.5

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, Atomic Absorption	972.02a	261.00	1	60	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	3	96	6.5
Acid Soluble Manganese, Other		261.99	5	98	3.0
Method Group 261.XX PPM			7	97	4.0

TOTAL MERCURY

Total Mercury, Other		281.99	1	0	0.00
Method Group 281.XX PPM			1	0.04	0.00

TOTAL MOLYBDENUM

Total Molybdenum, ICP		289.30	7	18	0.7
Total Molybdenum, Other		289.99	1	20	0.0
Method Group 289.XX PPM			7	18	1.3

TOTAL NICKEL

Total Nickel, Atomic Absorbtion		291.00	1	42	0.0
Total Nickel, ICP		291.30	7	50	1.4
Total Nickel, Other		291.99	1	52	0.0
Method Group 291.XX PPM			7	50	1.4

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04	311.00	2	0.32	0.01
Sodium, Other		311.99	10	0.35	0.02
Method Group 311.XX PCT			11	0.34	0.03

ACID SOLUBLE ZINC

Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	661.1	13.0
Acid Soluble Zinc, ICP		321.30	7	712.0	34.6
Acid Soluble Zinc, Other		321.99	2	719.3	12.5
Method Group 321.XX %			9	712.0	30.5

FLUORIDE

AFPC Check Sample
09-2010

Volumetric	325.10	14	0.84	1.72
Distilled/Electrode	325.99	3	0.79	0.03
Method Group 325.XX PCT		15	0.81	1.47
