

AFPC

Sample

2012-07

Grade

11-40-0-12

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.12	0.00
Ammoniacal Nitrogen, Other		001.99	11	11.07	0.05
Method Group 001.XX PCT			12	11.09	0.06
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.12	0.01
Total Nitrogen, Salicylic	955.04d	010.12	2	11.07	0.11
Total Nitrogen, Combustion	993.13	010.60	24	11.07	0.17
Total Nitrogen, Other		010.99	4	11.03	0.06
Method Group 010.XX PCT			33	11.07	0.19
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	4	40.78	0.80
Total Phosphate, Spectrometric	978.02	020.20	19	40.97	0.21
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	40.44	0.00
Total Phosphate, ICP	970.03	020.40	3	40.80	0.12
Total Phosphate, Other	993.13	020.99	2	41.68	0.04
Method Group 020.XX PCT			29	40.97	0.40
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.34	0.07
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.25	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.35	0.00
Insoluble Phosphate, ICP		030.50	1	0.36	0.00
Insoluble Phosphate, Other		030.99	2	0.50	0.10
Method Group 030.XX PCT			17	0.35	0.08
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	40.70	0.32
Indirect Available Phosphate, Automated	960.02	040.40	1	40.49	0.00
Indirect Available Phosphate, Other		040.99	1	40.73	0.00

Method Group 040.XX PCT			15	40.70	0.35
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	5	40.66	0.11
Direct Available Phosphate, Automated	978.01	041.40	2	40.74	0.17
Direct Available Phosphate, ICP		041.50	5	40.39	0.18
Direct Available Phosphate, EDTA Extract	993.01	041.60	6	40.73	0.29
Method Group 041.XX PCT			18	40.64	0.34
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	34.83	0.60
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	34.47	0.00
Water Soluble Phosphate, Other		048.99	3	35.04	0.16
Method Group 048.XX PCT			18	34.88	0.73
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.23	0.09
Soluble Potash, ICP(Citrate)		050.51	1	0.21	0.00
Soluble Potash, Flame Photometric(Citrate)	983.02B(b)	050.61	1	0.30	0.00
Soluble Potash, Other		050.99	9	0.23	0.02
Method Group 050.XX PCT			14	0.23	0.02
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	15	2.53	0.09
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.39	0.06
Free Water, Other		060.99	1	2.93	0.00
Method Group 060.XX PCT			18	2.51	0.12
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.54	0.00
Acid Soluble Calcium, ICP		101.30	19	0.56	0.03
Method Group 101.XX PCT			20	0.56	0.04
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.14	0.00
Acid Soluble Magnesium, ICP		121.30	19	1.11	0.06
Method Group 121.XX PCT			20	1.11	0.07
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	5	3.72	0.18

Sulfur, Spectrometric		144.70	4	1.82	1.26
Sulfur, Other		144.99	12	3.73	0.14
Method Group 144.XX PCT			21	3.69	0.64
TOTAL SULFUR (S)					
Sulfur, Other		145.99	20	11.33	0.33
Method Group 145.XX PCT			20	11.33	0.40
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	9	13	2.0
Method Group 151.XX PPM			9	13	2.5
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	3	38	16.7
Method Group 165.XX PPM			3	38	20.3
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	8	3	0.8
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			9	3	0.7
ALUMINUM AS Al₂O₃					
ICP, %			17	1.30	0.06
Water Soluble Chlorine, Other, %		190.99	2	1.28	0.06
Method Group 190.XX PCT			19	1.30	0.11
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	9	122	7.1
Total Chromium, Other		191.99	1	132	0.0
Method Group 191.XX PPM			10	124	8.4
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	7	4	0.2
Acid Soluble Cobalt, Other		202.99	1	4	0.0
Method Group 202.XX PPM			8	4	0.2
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	3	0.1
Acid Soluble Copper, ICP		221.30	7	7	1.5
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			9	7	0.5

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP	241.30	19	2.71	0.07
Method Group 241.XX PCT		21	2.72	0.08

TOTAL LEAD

Total Lead, ICP	251.30	7	4	0.8
Total Lead, Other	251.99	1	3	0.0
Method Group 251.XX PPM		8	3	1.1

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, ICP	972.02a 261.30	5	178	3.6
Acid Soluble Manganese, Other	261.99	5	184	14.2
Method Group 261.XX PPM		10	178	15.4

TOTAL MERCURY

Total Mercury, ICP	281.30	1	0.00	0.00
Method Group 281.XX PPM		1	0.00	0.00

TOTAL MOLYBDENUM

Total Molybdenum, ICP	289.30	8	7	1.8
Total Molybdenum, Other	289.99	1	9	0.0
Method Group 289.XX PPM		9	7	2.7

TOTAL NICKEL

Total Nickel, ICP	291.30	8	15	1.7
Total Nickel, Other	291.99	1	18	0.0
Method Group 291.XX PPM		9	16	2.3

TOTAL SELENIUM

Total Selenium, ICP	301.30	2	0	0.1
Method Group 301.XX PPM		2	0	0.2

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04 311.00	2	0.18	0.02
Sodium, Other	311.99	9	0.20	0.04
Method Group 311.XX PCT		11	0.20	0.05

ACID SOLUBLE ZINC

Acid Soluble Zinc, Atomic Absorption	975.02 321.00	1	43.7	0.00
Acid Soluble Zinc, ICP	321.30	8	34.5	6.5
Method Group 321.XX, PPM		9	37.0	9.1

FLUORIDE

Volumetric	325.10	13	1.81	0.13
Distilled/Electrode	325.99	2	1.96	0.01
Method Group 325.XX PCT		15	1.82	0.18
