

AFPC

Sample

2008-06

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	3	10.93	0.21
Ammoniacal Nitrogen, Other		001.99	12	11.26	0.11
Method Group 001.XX PCT			15	11.25	0.27
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	11.35	0.11
Total Nitrogen, Salicylic	955.04d	010.12	2	11.22	0.04
Total Nitrogen, Combustion	993.13	010.60	27	11.26	0.27
Total Nitrogen, Other		010.99	2	11.17	0.03
Method Group 010.XX PCT			35	11.26	0.23
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	50.50	0.45
Total Phosphate, Spectrometric	978.02	020.20	20	52.13	0.38
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	52.56	0.00
Total Phosphate, Automated	970.03	020.40	2	50.55	1.42
Total Phosphate, Other	993.13	020.99	4	51.98	0.42
Method Group 020.XX PCT			29	52.09	0.58
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.61	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.61	0.15
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.58	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.67	0.06
Insoluble Phosphate, Other		030.99	2	0.72	0.06
Method Group 030.XX PCT			17	0.61	0.14
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	51.60	0.31
Indirect Available Phosphate, Other		040.99	5	51.73	0.38
Method Group 040.XX PCT			18	51.60	0.44

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	7	51.34	0.35
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	50.91	0.08
Direct Available Phosphate, Automated	978.01	041.40	2	51.70	0.07
Direct Available Phosphate, ICP		041.50	5	49.71	0.19
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	51.19	0.11
Method Group 041.XX PCT			19	51.15	1.07

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	47.86	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	47.51	0.16
Water Soluble Phosphate, Other		048.99	2	47.82	0.12
Method Group 048.XX PCT			17	47.59	0.26

SOLUBLE POTASH AS K₂O

Soluble Potash, STPB Oxalate	958.02	050.00	1	0.21	0.00
Soluble Potash, ICP(Oxalate)		050.50	2	0.23	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.23	0.00
Soluble Potash, Flame Photometric(Oxalate)	983.02B(a)	050.60	1	0.17	0.00
Soluble Potash, Other		050.99	7	0.20	0.01
Method Group 050.XX PCT			12	0.21	0.03

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	14	0.92	0.29
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.46	0.07
Free Water, Other		060.99	3	1.42	0.15
Method Group 060.XX PCT			19	0.93	0.42

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	16	0.90	0.03
Acid Soluble Calcium, Other		101.99	1	1.07	0.00
Method Group 101.XX PCT			17	0.91	0.06

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.95	0.00
Acid Soluble Magnesium, ICP		121.30	18	0.89	0.07
Method Group 121.XX PCT			19	0.89	0.08

SULFATE SULFUR (S)

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Sulfur, Gravimetric	980.02(a)	144.01	6	1.51	0.04
Sulfur, Spectrometric		144.70	2	1.47	0.00
Sulfur, Other		144.99	10	1.45	0.05
Method Group 144.XX PCT			18	1.47	0.06
TOTAL SULFUR (S)					
Sulfur, Other		145.99	5	1.34	0.03
Method Group 145.XX PCT			5	1.34	0.04
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	6	12	2.7
Total Arsenic, Other		151.99	3	12	1.2
Method Group 151.XX PPM			9	12	2.0
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	4	163	232.7
Method Group 165.XX PPM			4	163	283.4
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	1	5	0.0
Total Cadmium, ICP		181.30	11	3	0.7
Total Cadmium, Other		181.99	1	2	0.0
Method Group 181.XX PPM			13	3	0.9
ALUMINUM AS Al₂O₃					
ICP, %			16	1.78	0.14
Water Soluble Chlorine, Other, %		190.99	1	1.75	0.00
Method Group 190.XX PCT			17	1.77	0.17
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	11	93	7.4
Total Chromium, Other		191.99	1	82	0.0
Method Group 191.XX PPM			12	92	9.4
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	10	2	0.7
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			11	2	0.8
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	1	0.0

Acid Soluble Copper, ICP		221.30	5	36	14.0
Method Group 221.XX PPM			5	36	17.1
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	16	1.15	0.04
Acid Soluble Iron, Other		241.99	1	1.07	0.00
Method Group 241.XX PCT			19	1.15	0.05
TOTAL LEAD					
Total Lead, ICP		251.30	6	7	7.2
Total Lead, Other		251.99	1	3	0.0
Method Group 251.XX PPM			7	3	8.1
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	6	352	23.3
Acid Soluble Manganese, Other		261.99	5	346	4.5
Method Group 261.XX PPM			11	346	22.7
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	10	17	2.3
Total Molybdenum, Other		289.99	1	15	0.0
Method Group 289.XX PPM			11	17	2.7
TOTAL NICKEL					
Total Nickel, ICP		291.30	9	11	1.3
Total Nickel, Other		291.99	1	11	0.0
Method Group 291.XX PPM			10	11	1.5
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1	1	0.0
Method Group 301.XX PPM			1	1	0.0
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	3	0.45	0.06
Sodium, Other		311.99	9	0.40	0.04
Method Group 311.XX PCT			12	0.40	0.06

ACID SOLUBLE ZINC

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Acid Soluble Zinc, ICP	321.30	8	61.5	4.4
Acid Soluble Zinc, Other	321.99	2	57.5	1.9
Method Group 321.XX PPM		10	60.5	5.0
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FLUORIDE				
Water Soluble Zinc, Atomic Absorption	325.00	1	2.23	0.00
Volumetric	325.10	13	2.16	0.32
Distilled/Electrode	325.99	2	2.33	0.04
Method Group 325.XX PCT		16	2.17	0.25
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