

AFPC

Sample

2010-02

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.34	0.00
Ammoniacal Nitrogen, Other		001.99	10	11.23	0.04
Method Group 001.XX PCT			11	11.23	0.06
NITRATE NITROGEN					
Nitrate Nitrogen, Other		002.99	1		0.00
Method Group 002.XX PCT			1	0.00	0.00
TOTAL NITROGEN					
Total Nitrogen, Combustion	993.13	010.60	26	11.28	0.08
Total Nitrogen, Other		010.99	1	11.50	0.00
Method Group 010.XX PCT			27	11.29	0.11
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	52.91	0.38
Total Phosphate, Spectrometric	978.02	020.20	17	52.89	0.14
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	52.91	0.00
Total Phosphate, ICP	970.03	020.40	1	47.13	0.00
Total Phosphate, ICP, Lithium	970.02	020.50	1	53.25	0.00
Method Group 020.XX PCT			22	52.90	0.31
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	10	0.26	0.10
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.11	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.27	0.00
Insoluble Phosphate, ICP		030.50	1	0.21	0.00
Method Group 030.XX PCT			13	0.26	0.04
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	11	52.66	0.18
Indirect Available Phosphate, ICP		040.50	1	53.05	0.00
Indirect Available Phosphate, Other		040.99	1	52.71	0.00

Method Group 040.XX PCT			13	52.68	0.24
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	53.12	0.01
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	52.30	0.00
Direct Available Phosphate, Automated	978.01	041.40	6	52.76	0.60
Direct Available Phosphate, ICP		041.50	5	51.90	0.34
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	52.62	0.56
Method Group 041.XX PCT			16	52.40	1.01
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	11	47.88	0.42
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	47.48	0.00
Water Soluble Phosphate, Other		048.99	2	48.05	0.17
Method Group 048.XX PCT			14	47.85	0.51
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.12	0.00
Soluble Potash, Flame Photometric(Oxalate)	983.02B(a)	050.60	1	0.16	0.00
Soluble Potash, Other		050.99	5	0.12	0.01
Method Group 050.XX PCT			8	0.12	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	12	1.33	0.11
Free Water, Vacuum Desiccate	965.08A	060.10	3	1.23	0.02
Method Group 060.XX PCT			15	1.29	0.14
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.65	0.00
Acid Soluble Calcium, ICP		101.30	14	0.64	0.04
Method Group 101.XX PCT			15	0.65	0.04
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.22	0.00
Acid Soluble Magnesium, ICP		121.30	14	1.19	0.04
Method Group 121.XX PCT			15	1.19	0.05
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	1.36	0.03
Sulfur, Spectrometric		144.70	2	1.42	0.00

Sulfur, Other		144.99	6	1.42	0.01
Method Group 144.XX PCT			11	1.42	0.04
TOTAL SULFUR (S)					
Sulfur, Other		145.99	4	1.30	0.14
Method Group 145.XX PCT			4	1.30	0.18
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	3	18	1.1
Method Group 151.XX PPM			3	18	1.3
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	2	36	2.9
Method Group 165.XX PPM			2	36	3.6
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	6	144	7.2
Total Cadmium, Other		181.99	1	151	0.0
Method Group 181.XX PPM			7	145	7.6
ALUMINUM AS Al₂O₃					
ICP, %			11	1.61	0.04
Water Soluble Chlorine, Other, %		190.99	2	1.66	0.02
Method Group 190.XX PCT			13	1.62	0.05
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	7	517	22.7
Total Chromium, Other		191.99	1	507	0.0
Method Group 191.XX PPM			8	512	19.7
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	4	0.0
Acid Soluble Cobalt, Other		202.99	1	4	0.0
Method Group 202.XX PPM			6	4	0.1
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	1	0.0
Acid Soluble Copper, ICP		221.30	4	82	5.4
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			5	80	6.2
ACID SOLUBLE IRON AS Fe₂O₃					

Acid Soluble Iron, ICP		241.30	13	1.19	0.04
Method Group 241.XX PCT			14	1.19	0.05
TOTAL LEAD					
Total Lead, ICP		251.30	4	3	1.3
Total Lead, Other		251.99	1	2	0.0
Method Group 251.XX PPM			5	3	0.5
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	4	170	5.1
Acid Soluble Manganese, Other		261.99	3	176	2.6
Method Group 261.XX PPM			7	171	6.6
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	6	13	0.9
Total Molybdenum, Other		289.99	1	14	0.0
Method Group 289.XX PPM			7	13	1.4
TOTAL NICKEL					
Total Nickel, ICP		291.30	6	237	9.0
Total Nickel, Other		291.99	1	231	0.0
Method Group 291.XX PPM			7	237	10.2
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1	2	0.0
Method Group 301.XX PPM			1	2	0.0
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	2	0.15	0.00
Sodium, Other		311.99	6	0.15	0.01
Method Group 311.XX PCT			8	0.15	0.01
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	8	1590.0	49.4
Method Group 321.XX PPM			8	1590.0	60.2
FLUORIDE					
Volumetric		325.10	11	1.42	0.17
Distilled/Electrode		325.99	2	1.51	0.01
Method Group 325.XX PCT			13	1.44	0.16