



Magruder Certificate of Analysis

Magruder Sample #230111 Organic 6-3-3.5

Analyte	Value	± Uncertainty	# Labs
Total N (6%)	7.046	0.027	57
Total P2O5 (%)	5.981	0.083	35
Direct Available P2O5 (3%)	5.466	0.120	30
Soluble K2O (3.5%)	3.978	0.055	59
Acid Soluble Ca (7.8%)	7.913	0.055	49
Acid Soluble Mg (0.7%)	0.6807	0.0085	52
Total S (2.5%)	2.320	0.040	40
Acid Soluble Cr (ppm)	41.37	4.40	16
Acid Soluble Co (ppm)	13.18	1.61	18
Acid Soluble Cu (%)	0.00364	0.00011	21
Acid Soluble Fe (0.2%)	0.2991	0.0075	49
Acid Soluble Ni (ppm)	20.08	1.31	17
Acid Soluble Zn (%)	0.01732	0.00062	23

1. Data obtained from participant results in the Magruder Check Sample Program.
2. Guaranteed concentrations noted by the value preceding the unit in Analyte name.
3. Values are robust means. Uncertainty determined as the robust standard deviation / sqrt(#Labs). Results only shown for analytes tested by 16 or more labs. Values and uncertainties for analytes tested by less than 16 labs are available in Analyte Reports.