



Magruder Certificate of Analysis

Magruder Sample #220811 Grade 17-1-0

Analyte	Value	± Uncertainty	# Labs
Total N (17%)	17.64	0.042	73
Total P2O5 (%)	1.393	0.030	43
Direct Available P2O5 (1%)	1.366	0.029	37
Soluble K2O (%)	0.04682	0.00713	17
Total S (20%)	20.05	0.12	50
Acid Soluble Cu (%)	0.00871	0.00019	19
Acid Soluble Pb (ppm)	11.10	1.14	16
Acid Soluble Mo (ppm)	5.577	0.580	16
Acid Soluble Ni (ppm)	8.920	0.607	16
Acid Soluble Zn (%)	0.02426	0.00089	20

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 $1.25 \times \text{robust standard deviation} / \sqrt{\text{\#Labs}}$.
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.