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POULTRY MANURE – EGG FARM

AAA Egg Company Pty Ltd has previously sent samples of manure to the Chemistry Centre in East Perth, Western Australia to determine the value of nutrients within the manure and to discover the full potential of using chicken manure as a substitute to more expensive fertilizing options.

KEY:
% AA = percent as analyzed
% db = percent dry basis
mg/kg = milligrams per kilogram dry basis
ms/m = milliSiemen per metre

RESULTS:

%H20 AA	2.90	(Moisture by oven drying by method P29)
EC (1:5) ms/m	590.00	(Electrical Conductivity (1:5) at 25 deg C)
N (comb) %db	5.16	(Nitrogen, N by combustion method P3)
N (NH4) %db	0.31	(Ammonium nitrogen, NH4-N by SFA method P9)
N (NO3) mg/kg	< 10.00	(Nitrate nitrogen, NO3-N by SFA method P9)
P (ICP) %db	2.12	(Phosphorus, P by ICP – AES method P2)
K (ICP) %db	1.37	(Potassium, K by ICP – AES method P2)
Na (ICP) % db	0.54	(Sodium, Na by ICP – AES method P2)
Ca (ICP) % db	10.80	(Calcium, Ca by ICP – AES method P2)
Mg (ICP) % db	0.71	(Magnesium, Mg by ICP – AES method P2)
S (ICP) %db	0.47	(Sulphur, S by ICP – AES method P2)
B (ICP) mg/kg	16.00	(Boron, B by ICP – AES method P2)
Cu (ICP) mg/kg	60.00	(Copper, Cu by ICP – AES method P2)
Fe (ICP) mg/kg	960.00	(Iron, Fe by ICP – AES method P2)
Mn (ICP) mg/kg	430.00	(Manganese, Mn by ICP – AES method P2)
Zn (ISP) mg/kg	380.00	(Zinc, Zn by ICP – AES method P2)

Extracts of the samples for the determination of pH and electrical conductivity (EC) were prepared according to the Australian Standards AS 4454 – 199, Composts, Soil Conditioners and Mulches. The high EC values from our samples indicate that the manure contains high concentrations of soluble nutrients and/or salts. Care should be taken when using this material for growing sensitive plants. Recommended management practices include reducing the application rate or incorporating the manure into the soil several weeks before planting. Organic fertilizers such as poultry manure provide organic matter to the soil which will assist in maintaining or improving soil structure and consequently, good water infiltration, aeration and root development. Tests also showed heavy metals to be below detection limit.

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