DŴR CYMRU - WELSH WATER

Bryn Cowlyd

Analysis of Water Treatment Works Sludge

Date: 22 June 2018

Application rate (t/ha)	**250**	Lab ref.	69975
Application rate (t/acre)	**100.0**		
pH	**6.0**		
Dry solids (%)	**3.2**		
Organic matter content (%)			

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.4	%	0.13	31.90	0.002	0.4
Ammonium-N	50	mg/kg	0.00	0.40		
Phosphorus (P)	56.8	mg/kg	0.00			
Phosphate (P_2O_5)			0.00	1	0.001	0.2
Potassium (K)	21.4	mg/kg	0.00			
Potash (K_2O)			0.00	0	0.000	0.04
Magnesium (Mg)	42.8	mg/kg	0.00			
Magnesium (MgO)			0.00	1	0.000	0.1
Sulphur (S)	74.7	mg/kg	0.00			
Sulphur (SO_3)			0.01	1	0.001	0.1

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	5.57	mg/kg	0.00	0.04	15.00
Copper	0.77	mg/kg	0.00	0.01	7.50
Nickel	0.63	mg/kg	0.00	0.01	3.00
Lead	0.96	mg/kg	0.00	0.01	15.00
Cadmium	0.02	mg/kg	0.00	0.00	0.15
Chromium	0.72	mg/kg	0.00	0.01	15.00
Arsenic	0.55	mg/kg	0.00	0.00	0.70
Mercury	0.05	mg/kg	0.00	0.00	0.10
Other Elements					
Aluminium	167	mg/kg	0.01	1	
Iron	9442	mg/kg	0.30	75	

To convert from kg/tonne to units/ton multiply by 2
To convert from kg/ha to units/acre multiply by 0.8