DŴR CYMRU - WELSH WATER

Garreg-lwyd

Analysis of Water Treatment Works Sludge

Date: 02 May 2018

Application rate (t/ha)	**250**	Lab ref. S 4168872
Application rate (t/acre)	**100.0**	
pH	**5.7**	
Dry solids (%)	**1.8**	
Organic matter content (%)	**42.40**	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.947	%	0.17	41.67	0.020	4.9
Ammonium-N	1120	mg/kg	0.02	4.93		
Phosphorus (P)	210	mg/kg	0.00			
Phosphate (P_2O_5)			0.01	2	0.002	0.4
Potassium (K)	87	mg/kg	0.00			
Potash (K_2O)			0.00	0	0.000	0.1
Magnesium (Mg)	812	mg/kg	0.01			
Magnesium (MgO)			0.02	6	0.005	1.2
Sulphur (S)	4860	mg/kg	0.09			
Sulphur (SO_3)			0.21	53	0.021	5.3

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	564	mg/kg	0.01	2.48	15.00
Copper	65.2	mg/kg	0.00	0.29	7.50
Nickel	23.10	mg/kg	0.00	0.10	3.00
Lead	46.50	mg/kg	0.00	0.20	15.00
Cadmium	1.91	mg/kg	0.00	0.01	0.15
Chromium	4.3	mg/kg	0.00	0.02	15.00
Arsenic	17	mg/kg	0.00	0.07	0.70
Mercury	1.14	mg/kg	0.00	0.01	0.10
Other Elements					
Aluminium	8550	mg/kg	0.15	38	
Iron	#####	mg/kg	10.77	2693	

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