DŴR CYMRU - WELSH WATER

Dolbenmaen

Analysis of Water Treatment Works Sludge

Date: 02 May 2018

Application rate (t/ha)	**250**	Lab ref. S 4168857
Application rate (t/acre)	**100.0**	
pH	**6.8**	
Dry solids (%)	**1.8**	
Organic matter content (%)	**35.20**	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.587	%	0.11	26.42	0.020	4.9
Ammonium-N	1090	mg/kg	0.02	4.91		
Phosphorus (P)	1260	mg/kg	0.02			
Phosphate (P_2O_5)			0.05	13	0.010	2.6
Potassium (K)	87	mg/kg	0.00			
Potash (K_2O)			0.00	0	0.000	0.1
Magnesium (Mg)	113	mg/kg	0.00			
Magnesium (MgO)			0.00	1	0.001	0.2
Sulphur (S)	18600	mg/kg	0.33			
Sulphur (SO_3)			0.84	209	0.084	20.9

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	260	mg/kg	0.00	1.17	15.00
Copper	16.6	mg/kg	0.00	0.07	7.50
Nickel	5.10	mg/kg	0.00	0.02	3.00
Lead	6.20	mg/kg	0.00	0.03	15.00
Cadmium	0.84	mg/kg	0.00	0.00	0.15
Chromium	4.3	mg/kg	0.00	0.02	15.00
Arsenic	16.7	mg/kg	0.00	0.08	0.70
Mercury	1.12	mg/kg	0.00	0.01	0.10
Other Elements					
Aluminium	3E+05	mg/kg	5.57	1393	
Iron	5240	mg/kg	0.09	24	

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