

DŴR CYMRU - WELSH WATER

Cefn Dryscoed LQ

Analysis of Water Treatment Works Sludge

14/05/2018

417278

Application rate (t/ha) 110
Application rate (t/acre) 44.0
pH 6.9
Dry solids (%) 2.1

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.91	%	0.19	21.12	0.006	0.7
Ammonium-N	288	mg/kg	0.01	0.67		
Phosphorus (P)	58.4	mg/kg	0.00			
Phosphate (P ₂ O ₅)			0.00	0.3	0.001	0.1
Potassium (K)	12800	mg/kg	0.27			
Potash (K ₂ O)			0.33	35.9	0.065	7.2
Magnesium (Mg)	500	mg/kg	0.01			
Magnesium (MgO)			0.02	1.9	0.004	0.4
Sulphur (S)	4470	mg/kg	0.09			
Sulphur (SO ₃)			0.24	25.9	0.024	2.6

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(kg/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	26.9	mg/kg	0.00	0.06	15.00
Copper	10.9	mg/kg	0.00	0.03	7.50
Nickel	5.10	mg/kg	0.00	0.01	3.00
Lead	23.80	mg/kg	0.00	0.06	15.00
Cadmium	0.16	mg/kg	0.00	0.00	0.15
Chromium	4.3	mg/kg	0.00	0.01	15.00
Arsenic	0.96	mg/kg	0.00	0.002	0.70
Mercury	45.1	mg/kg	0.00	0.10	0.10
Other Elements					
Aluminium	205	mg/kg	0.00	0	
Iron	4760	mg/kg	0.10	11	

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

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