DŴR CYMRU - WELSH WATER

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Analysis of Water Treatment Works Sludge

Date: 02 May 2018

Application rate (t/ha)	**250**	Lab ref. S 4168862
Application rate (t/acre)	**100.0**	
pH	**4.3**	
Dry solids (%)	**2.1**	
Organic matter content (%)	**28.10**	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.415	%	0.09	22.20	0.019	4.9
Ammonium-N	911	mg/kg	0.02	4.87		
Phosphorus (P)	264	mg/kg	0.01			
Phosphate (P_2O_5)			0.01	3	0.003	0.6
Potassium (K)	87	mg/kg	0.00			
Potash (K_2O)			0.00	1	0.000	0.1
Magnesium (Mg)	113	mg/kg	0.00			
Magnesium (MgO)			0.00	1	0.001	0.2
Sulphur (S)	26600	mg/kg	0.57			
Sulphur (SO_3)			1.42	356	0.142	35.6

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	145	mg/kg	0.00	0.78	15.00
Copper	7.8	mg/kg	0.00	0.04	7.50
Nickel	5.10	mg/kg	0.00	0.03	3.00
Lead	10.20	mg/kg	0.00	0.05	15.00
Cadmium	0.11	mg/kg	0.00	0.00	0.15
Chromium	6.4	mg/kg	0.00	0.03	15.00
Arsenic	14.1	mg/kg	0.00	0.08	0.70
Mercury	0.94	mg/kg	0.00	0.01	0.10
Other Elements					
Aluminium	7220	mg/kg	0.15	39	
Iron	#####	mg/kg	17.36	4339	

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