DŴR CYMRU - WELSH WATER

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Analysis of Water Treatment Works Sludge

Date: 29 May 2018

Application rate (t/ha)	**250**	Lab ref.	6075436
Application rate (t/acre)	**100.0**		
pH	**6.2**		
Dry solids (%)	**3.4**		
Organic matter content (%)			

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.68	%	0.23	58.31	0.007	1.8
Ammonium-N	211	mg/kg	0.01	1.81		
Phosphorus (P)	1400	mg/kg	0.05			
Phosphate (P_2O_5)			0.11	27	0.022	5.5
Potassium (K)	230	mg/kg	0.01			
Potash (K_2O)			0.01	2	0.002	0.5
Magnesium (Mg)	294	mg/kg	0.01			
Magnesium (MgO)			0.02	4	0.003	0.8
Sulphur (S)	5960	mg/kg	0.20			
Sulphur (SO_3)			0.51	128	0.051	12.8

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	414	mg/kg	0.01	3.55	15.00
Copper	7.8	mg/kg	0.00	0.07	7.50
Nickel	41.30	mg/kg	0.00	0.35	3.00
Lead	29.40	mg/kg	0.00	0.25	15.00
Cadmium	1.16	mg/kg	0.00	0.01	0.15
Chromium	15.9	mg/kg	0.00	0.14	15.00
Arsenic		mg/kg	0.00	0.00	0.70
Mercury	0.59	mg/kg	0.00	0.01	0.10
Other Elements					
Aluminium	2900	mg/kg	0.10	25	
Iron	#####	mg/kg	12.90	3224	

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