

Tony Leakey
PPC Compliance Officer
Natural Resources Wales
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30th January 2023

Dear Mr Leakey

Ref: Sludge Analysis (Table S4.1 EPR Permit No. EP3738NG)

Please find enclosed the annual summary of sludge analysis for 2022 in line with condition 4.2.3 of EPR Permit No. EP3738NG.

Summary of Sludge Analysis 2022

Determinand	Units	July 2022	September 2022	December 2022
Dry Matter	%	40.8	37.5	40.5
Conductivity 1:6	uS/cm	209	213	172
Total Nitrogen	% w/w	0.75	0.56	0.71
Total Carbon	% w/w	40.1	42.4	39.9
C:N Ratio		53:1	75:1	57:1
Total Phosphorus (P)	mg/kg	560	239	207
Total Potassium (K)	mg/kg	100	110	125
Total Magnesium (Mg)	mg/kg	230	236	229
Total Copper (Cu)	mg/kg	11.7	15.7	8.23
Total Zinc (Zn)	mg/kg	76.4	42.6	58.7
Total Sulphur (S)	mg/kg	1580	1206	1386
Total Lead (Pb)	mg/kg	2.94	2.54	2.67
Total Cadmium (Cd)	mg/kg	<0.1	<0.1	<0.1
Total Mercury (Hg)	mg/kg	<0.1	<0.1	<0.1
Total Nickel (Ni)	mg/kg	8.2	3.27	5.83
Total Chromium (Cr)	mg/kg	23.5	13.1	20.5
pH		4.3	5.47	4.32
Lime Equivalent as CaCO ₃	% w/w	12.5	<2	<2
Neutralising Value as CaO equiva	% w/w	7.01	<1	<1

I trust the information and data provided meets with your requirements.

Yours sincerely,



Richard Lewis
Energy & Environment Manager