

Wrexham County Borough Council
The Guildhall
Wrexham
LL11 1AY

29th April 2023

Planning application ref P/2022/1053 and P/2022/1054

Conversion of agricultural building to dwelling, Oddi Ar Y Twmpath, Garth, Glyn Ceiriog Wrexham LL20 7LY

Further to the planning consultation response from Natural Resources Wales (NRW) dated 26/4/23 we provide a response as follows.

The manufactures certificate is included with this letter which confirms the chemical dosing equipment provides an efficiency reduction in Phosphorus (P) in the effluent discharge of 95.4% resulting in a Phosphorus quantity of 0.3ml/litre. A maintenance plan is also included.

The chemical dosing equipment has been specified to provide the maximum reduction possible in the Phosphorus content in the effluent discharge however it should be noted the NRW advice states.

Small discharges to ground (less than 2.0m³/day) via a suitable drainage field is unlikely to have a pathway for Phosphorus to enter the river environment and unlikely to have a significant effect on the SAC. Therefore, additional chemical dosing to package treatment plant which is discharging to ground may not be required.

The NRW advice confirms the level of discharge in the application does not exceed 2m³/day and chemical dosing is not required however the applicant is willing to include chemical dosing which will almost eliminates any phosphorus in the effluent providing the best possible situation and as stated in previous a previous response the situation of discharge to ground in the proposal has improved immeasurably following the removal of the old septic tank serving the farmhouse and its position relative to the river environment.

The NRW also comment on the inclusion of the Ecology surveys dated March 2020 and October 2022 in the approved plans and documents on the decision notice. We have no comment to make on this and expect the surveys to be included in the conditions.



Maintenance Plan for Biodisc BC with chemical dosing.

1. The manufacturer states the sludge removal must be at a maximum interval of seven months, this will be set at 6 month intervals to ensure the maximum sludge content is not reached.
2. The plant maintenance is required at 12 month intervals, this will be carried by an approved specialist company and will be arranged to follow the day after sludge removal. Kingspan can provide a list of approved contractors.
3. The plant will be fitted with a visible alarm above ground level to enable the property owners(s) to contact the maintenance contractor should a fault occur.
4. Property occupiers will be provided with information on liquids which are able / unable to be accepted by the plant, these are available in the owners manual which will be provided to each property.
5. As a back-up to routine servicing and to assist trouble-free operation, owners will be advised of the checks they should carry out which are listed in the owners manual.

Manufactures Certificate



Certificate

353.02C02

Kingspan Water & Energy Ltd.

College Road North, Aston Clinton, Aylesbury, HP22 5EW, UK

EN 12566-3, Annex B

Small wastewater treatment systems for up to 50 PT

Small wastewater treatment system BioDisc +P

Rotating Biological Contactor (RBC) in a GRP tank with chemical dosing equipment

Test report PIA2019-353D47.02

This test certificate is a revised version of test certificate no. 353.02C01.

Nominal organic daily load (influent)	0.25 kg BOD ₅ /d		
Nominal hydraulic daily load	0.9 m ³ /d		
Material	GRP		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	65.9 %	31 mg/l
	BOD ₅	58.0 %	6 mg/l
	NH ₄ ⁺	71.1 %	17.9 mg/l
	NH ₄ -N*	92.1 %	5.0 mg/l
	Fe	95.4 %	0.3 mg/l
	SS	65.6 %	15 mg/l
Electrical consumption	1.5 kWh/d		

*Determined at temperature 20 (21) °C in the laboratory

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH

Hergenrather Weg 30

52074 Aachen

Germany

This document replaces neither the declaration
of performance nor the CE marking.



Marlene Wiermer

December 2020