Foul water Proposal

Client	Lucy Onan-Read
Client Address	The Shippon Drury Lane Ty Broughton SY13 3BE
Site Description	Conversion to domestic dwelling P/2025/0949
Date	21st March 2026
Wildon UK Representative	Mark Wildon
System Description	Packaged sewage treatment plant and associated drainage.

Site description.

The site requires a sewage treatment system to serve a proposed 3 bedroom domestic property

Using British Water Flows and Loads Part Four:

3 bedroom Property = 5 persons

Total Flow 750 litres
Total B.O.D 300 Grams
Total Ammonia 40 Grams

From the above, we advise the installation of a Klargester Biodisc Model BA (Specification attached)

This unit has the ability to treat the following per day:

Total Flow 1200 Litres
Total B.O.D 360 grams
Total Ammonia 48 grams

Foul water Proposal

From the above it can be seen that the BA Biodisc has spare capacity. The treatment system will be installed in excess of 7 metres from the property.

Drainage field.

A drainage field has been designed to BS 6297 :2007A1+2008 and in line with Approved Document H 2010 (Wales), Section H2 of Building Regulations. The drainage field will be constructed in excess of 15 metres from the property. The proposed drainage field site is over 100m from the SAC boundary, any watercourse and any other drainage field. There are no trees or tree roots in the proposed site.

Percolation testing was conducted in March 2026 dry overcast conditions in the proposed drainage field site.

Test Hole 1 - 1m Depth			
	Time in seconds	Divide by	VP
Test 1	6195	150	41.3
Test 2	6135	150	40.9
Test 3	6330	150	42.2
Average VP			**41.5**

Test Hole 2 - 1m Depth			
	Time in seconds	Divide by	VP
Test 1	6555	150	43.7
Test 2	6615	150	44.1
Test 3	6375	150	42.5
Average VP			**43.4**

Average VP of Test Hole 1 & 2	**42.45**

This site has a domestic equivalent population of 5 persons

A = domestic population x percolation test result x 0.2

A = 42.45 metres

42.45 divided by a proposed digger bucket width of 0.6 metres gives 71 linear metres of drainage field, 0.6 metres wide lost within a typical herring bone design.