Porosity Test

Appendix 2

Proposed drainage: Installation of Septic Tank (4 persons)
Location/site: Mrs A Delaney, Land South of Tyn-y-Coed, Moss Road, Gwersyllt, Wrexham. LL11 6HA
Undertaken by: Trevor Mennell
Weather conditions: Dry
Date: 23rd April 2024

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2 trial holes were excavated (at proposed invert level), 300mm x 300mm, filled with water and allowed to drain naturally overnight on 23rd April 2024.

Test 1

- Trial hole A was refilled and natural drainage from *75% to 25%* took **120** minutes (**7200** seconds)

Test 2

- Trial hole A was refilled once again and natural drainage from *75% to 25%* took **145** minutes (**8700** seconds)

Test 3

- Trial hole B was refilled and natural drainage from *75% to 25%* took **125** minutes (**7500** seconds)

Average time taken for natural drainage from 75% to 25%:

- 7200 + 8700 + 7500 = **23400**
- 23400 ÷ 3 = **7800**

- Vp = 7800 (seconds) ÷ 150 (mm of absorption) = **52**

Vp = 52

The Vp of 52 falls within the scope of 12 to 100 therefore the ground is deemed suitable for drainage from the proposed septic tank.

Size of Drainage Field (sq.m)
At = p x Vp x 0.25
7 x 52 x 0.25 = 91

I confirm that the test was carried out as stated above and the results were recorded as accurately as possible.

Signed *T R Mennell*