

Single Storey Dwelling – adjacent to 43 London Road, Stapleford, Cambridge, CB22 5DE

## BRE365 Infiltration test results to comply with condition 6 of Planning **Ref. S/4032/17/FL**

Findings of inspection carried out by Nigel Hills of Fordham Consulting on 15<sup>th</sup> July 2020

A Clay soil was evident to around a depth of 1.1m – 1.2m

Below the clay soil was hoggin which was then evident to the bottom of the test hole/trial hole, and further to approximately 2.3m to 2.4m in depth.

A hole 300mm square was excavated to a depth 1m.

The 300mm square section of the hole was filled to a depth of at least 300mm with water and allowed to seep away.

Next day, the test section was refilled with water to a depth of at least 300mm and the time was observed, in seconds, for the water to seep away from the 75% full to 25% full level (that is a depth of 150mm). This time was divided 150mm to give average time in seconds (vp) required for the water to drop 1mm.

The test was carried out 3 times per trial hole with two trial holes. The average figure from the tests was taken.

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## Percolation Tests - Results and Drainage Field Calculation Form

Test carried out by Kenneth Benson on behalf of the applicant of 43 London Road, Stapleford, Cambridge, CN22 5DE

The overall depths of the holes dug were:

Trial hole 1  
1 meter


Trial hole 2  
1 meter

I confirm that the water table did not rise to within 1 metre of the invert of the proposed land irrigation scheme.

The weather conditions on 25<sup>th</sup> September 2020 were sunny and clear, no rain

The results of the percolation tests were:

Trial hole 1				Trial hole 2			
	Time in seconds		Vp		Time in seconds		Vp
Test 1	11400	/150	76		12200		81
Test 2	12600	/150	84		11500		77
Test 3	11800	/150	79		11100		74
Average Vp – Trail hole 1			79.6	Average Vp – Trail hole 2			77.3
Average Vp of trial holes 1 and 2 is 78.45							
Flat roof dimensions - Flat roof with parapet wall, 7 roof windows = 56m <sup>2</sup>							
Soakaway crates = 1.2m <sup>3</sup>							
Building Control visited for inspection during installation							

Signed by .....  .....

Date 27/02/2024

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