

# PERCOLATION REPORT

**LOCATION:**

Thornley Hall Farm

**CLIENT:**

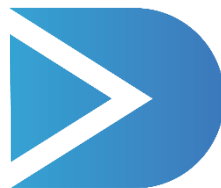
Mr and Mrs Airey

**DOCUMENT REF:**

25620-PR-001

**DATE:**

16/09/25



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**ENGINEERS LTD**  
CIVIL AND STRUCTURAL  
ENGINEERING

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Revision	Description	Date	Author	Checked
A	First Issue	Sep 2025	O Mountain	A Dyson

# TESTING REPORT

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## 1.0 TESTING REPORT

The Percolation Testing was carried out on site on 16th September 2025 to establish if infiltration methods were going to be a suitable solution for draining the site.

2 Trial Holes were formed with the following dimensions;

Test Pit 1      1600mm x 300mm x 1500mm deep

Test Pit 2      1500mm x 300mm x 1500mm deep

The water level drop was monitored and recorded (see test sheets attached).

TEST PIT 1:

For Test 1 (Test Pit 1), water was filled to a depth of 800mm, the water level dropped 30mm after 1 hours 30 minutes of testing.

For Test 1 (Test Pit 2), Groundwater was found at the base as can be seen in the pictures. Under BRE 365 groundwater cannot be within 1m of the base of the soakaway, due to the levels and storage required, the base of the soakaway would sit within this range. As a result of this it is deemed soakaways would not be viable at this location.

**Calculation sheet 1 shows that the infiltration rates are not high enough and do not satisfy BRE 365 requirements. Therefore, Infiltration methods of drainage will not be viable for this site and strategy.**

## APPENDICES

### Appendix A – Percolation Test Sheet METHOD (from BRE Digest 365)

- Excavate a soakage trail pit to the required depth (typically 1.0m - 2.0m deep) using minimum width (0.3m) and length (1.0m). Carefully trim sides and bottom.
- Carefully measure size of pit and note sizes below.
- Fill soakage hole briskly with water (from bowser) to at least three quarters full. Being careful not to wash away the sides. (Note: a 0.3m wide, 1m long, 1.5m deep trench needs at least 350 litres (80 gallons) of water)
- Place straight edge over top of soakage pit and measure (dip) to the top of the water.
- Record time versus dips in table below. Dip every 5 minutes for the first hour and every hour until pit is one quarter full. Repeat test 3 times in total on the same or consecutive days.

### DETAILS

<b>Site Location</b>	<b>Thornley Hall Farm</b>
<b>Date of Test</b>	<b>16/09/25</b>
<b>Weather Conditions</b>	<b>Dry – Autumn</b>
<b>Engineer Name</b>	<b>Rob Thacker</b>

### SIZE OF PIT 1

<b>Length</b>	<b>Width</b>	<b>Depth</b>
1.60m	0.30m	1.50m

### Test 1 RESULTS

<b>Time (mins)</b>	<b>Dip (mm)</b>	<b>Time (mins)</b>	<b>Dip (mm)</b>
0	500	70	770
5	495	75	770
10	495	80	770
15	490	85	770
20	490	90	770
25	458		
30	485		
35	480		
40	480		
45	475		
50	475		
55	470		
60	470		
65	470		

Date: 16 September 2025  
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