

Ref: C4001

28 July 2026

Re: Land at 8 and 9 Holmbush Close, Shoreham by Sea – Infiltration Test Result Summary

The following investigation was carried out at the above location in accordance with our quotation.

1. Site Works

The purpose of the investigation was to supply soakaway test data in general accordance with BRE document 365 (Soakaway Design) at location which would be the approximate intended location for a possible infiltration device to serve a new single dwelling.

The appended drawing illustrates the position of the test pit. The BRE365 pit was excavated to a depth of 0.9m in line with the approximate depth of the proposed soakaway.

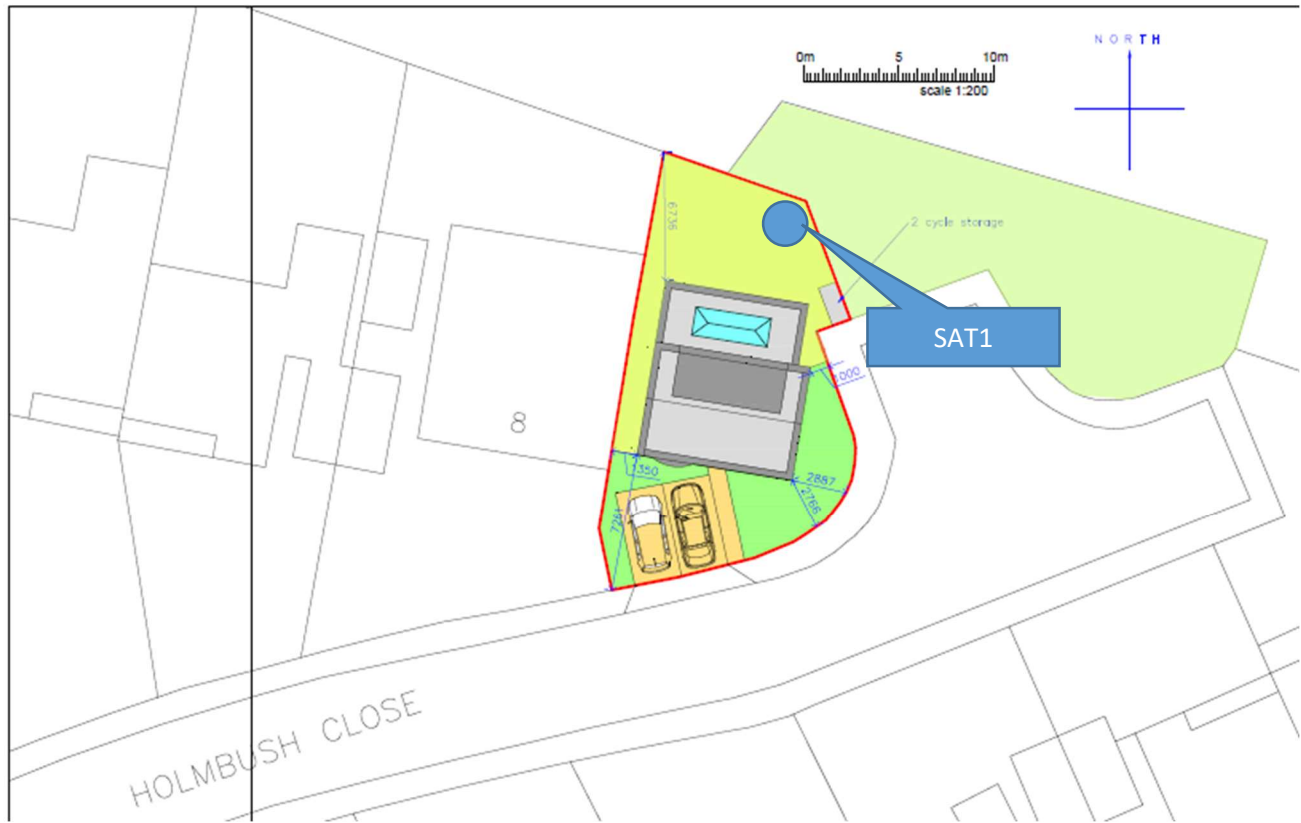
The testing commenced on 07 July 2026 with three tests being undertaken in accordance with BRE 365.

2. BRE 365 Soakaway Test Findings

(SAT1) Testing of the sub soils which was noted as chalk soils produced a BRE 365 design infiltration rate of **$1.84 \times 10^{-4} \text{m/s}$** . This rate was the slowest taken from all three tests. This is considered a good rate and will likely be suitable for most infiltration devices.

3. BRE 365 Soakaway Test Results

Test Pit No	Infiltration Rate (1-3 Tests)			Depth of Test	Soil Type
SAT1	$2.55 \times 10^{-4} \text{m/s}$	$2.3 \times 10^{-4} \text{m/s}$	$1.84 \times 10^{-4} \text{m/s}$	0.9m	chalk







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Appendix C – Soakaway Test Results

Job: Land at 8 and 9 Holmbush Close, Shoreham by Sea - Test 1

Infiltration Calculator

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

V_{p75-25} = Effective storage volume between 75% and 25% effective depth

a_{p50} = Internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} = The time for the water level to fall from 75% to 25% effective depth

f = Infiltration rate

Trial pit width	=	0.3
Trial pit depth	=	0.9
Trial pit length	=	1

a_{p50} = 1.47 m/squared

t_{p75-25} = 360 seconds

V_{p75-25} = 0.135 m/cubed

F = 0.000255

Job: Land at 8 and 9 Holmbush Close, Shoreham by Sea - Test 2

Infiltration Calculator

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

V_{p75-25} = Effective storage volume between 75% and 25% effective depth

a_{p50} = Internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} = The time for the water level to fall from 75% to 25% effective depth

f = Infiltration rate

Trial pit width	=	0.3
Trial pit depth	=	0.9
Trial pit length	=	1

a_{p50} = 1.47 m/squared

t_{p75-25} = 397 seconds

V_{p75-25} = 0.135 m/cubed

F = 0.000231

Job: Land at 8 and 9 Holmbush Close, Shoreham by Sea - Test 3

Infiltration Calculator

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

V_{p75-25} = Effective storage volume between 75% and 25% effective depth

a_{p50} = Internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} = The time for the water level to fall from 75% to 25% effective depth

f = Infiltration rate

Trial pit width	=	0.3
Trial pit depth	=	0.9
Trial pit length	=	1

a_{p50} = 1.47 m/squared

t_{p75-25} = 500 seconds

V_{p75-25} = 0.135 m/cubed

F = 0.000184