

Percolation test results

Name	Stewart and Carly Anderson
Location	Stouslie Farm, Hawick, Scottish Borders, TD9 7NX
Carried out by	Jackie Johnston Ltd
Date	4th March 2020

Soil description/Ground profile

Soil Type	Depth
Top soil	458 mm
Sub soil	275 mm
Shally	680 mm
Sandstone type that breaks up with digger	1 metre +

Percolation Test Data

Hole	Time taken to drain		
	2nd March 2020 (Hour:Minutes)	3rd March 2020 (Hour:Minutes)	4th March 2020 (Hour:Minutes)
1	1:02	1:08	1:07
2	1:15	1:17	1:21
3	1:19	1:24	1:22
Average	72 minutes	76 minutes	76 minutes

Percolation Test Calculation for Soakaway

For septic tanks:

$V \times P \times 0.25 = \text{Area (A) in squared metres}$

V = the time in seconds for the water in the test hole to drop by 1mm

P = the max. number of persons that the unit is designed to serve

Calculation:

$29.6 \times 12 \times 0.25 = 88.8 \text{ metres squared}$

Recommendation

It is recommended that 98.6 metres of trench at 0.9 wide should be constructed as the soakaway along the foot of the banking down from the Glamping pod site.

Water capacity test results

Date: 9th March 2020

Stouslie private water supply is fed by a spring that produces **450 litres per hour** and **10,800 litres per day**.

According to the Energy saving trust the average household uses 349 litres per day. Currently there are 3 households (including one holiday let) using this supply.

Should the Glamping pods be approved this supply has almost double the required water capacity to service all current households plus 3 Glamping pods with hot tubs. Each hot tub holds 1200 litres and would not be filled more than once per day.

Calculation:

Current 3 households	$349 \times 3 = 1,047$
Additional 3 Glamping pods	$349 \times 3 = 1,047$
3 hot tubs filled on once per day	$1200 \times 3 = 3,600$
Total maximum daily capacity required	5,694 litres