



Soil Infiltration Rate (Soakaway) Test

Soil Infiltration Test carried out in accordance with BRE Digest 365:2016.

Borehole number:

TP08 (SA01)

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Project name:

Halewood SPT

Project number:

Clyde 0255

Client:

WSP

Engineer:

WSP

Survey grid system:

OSGB

Co-ordinates:

mE  
mN  
mOD

Ground level:

Hole type:

TP

Checked by:

LG

Approved by:

CB

Date of test:

22/01/2025 09:00

Test reference:

1

Weather:

Dry

Test type:

Soil Infiltration Test

Response zone top:

0.00

m bgl

Reponse zone base:

3.00

m bgl

Test section diameter:

mm

Shape of test section:

Trial Pit (Cuboid)

Test section dimensions:

0.60m x 3.50m

Type of filter used:

None

(Assumed porosity)

100

%

Groundwater before:

3.00 m bgl

Water added:

1000 l

Water level start of test:

0.40 m bgl

Water level end of test:

0.44 m bgl

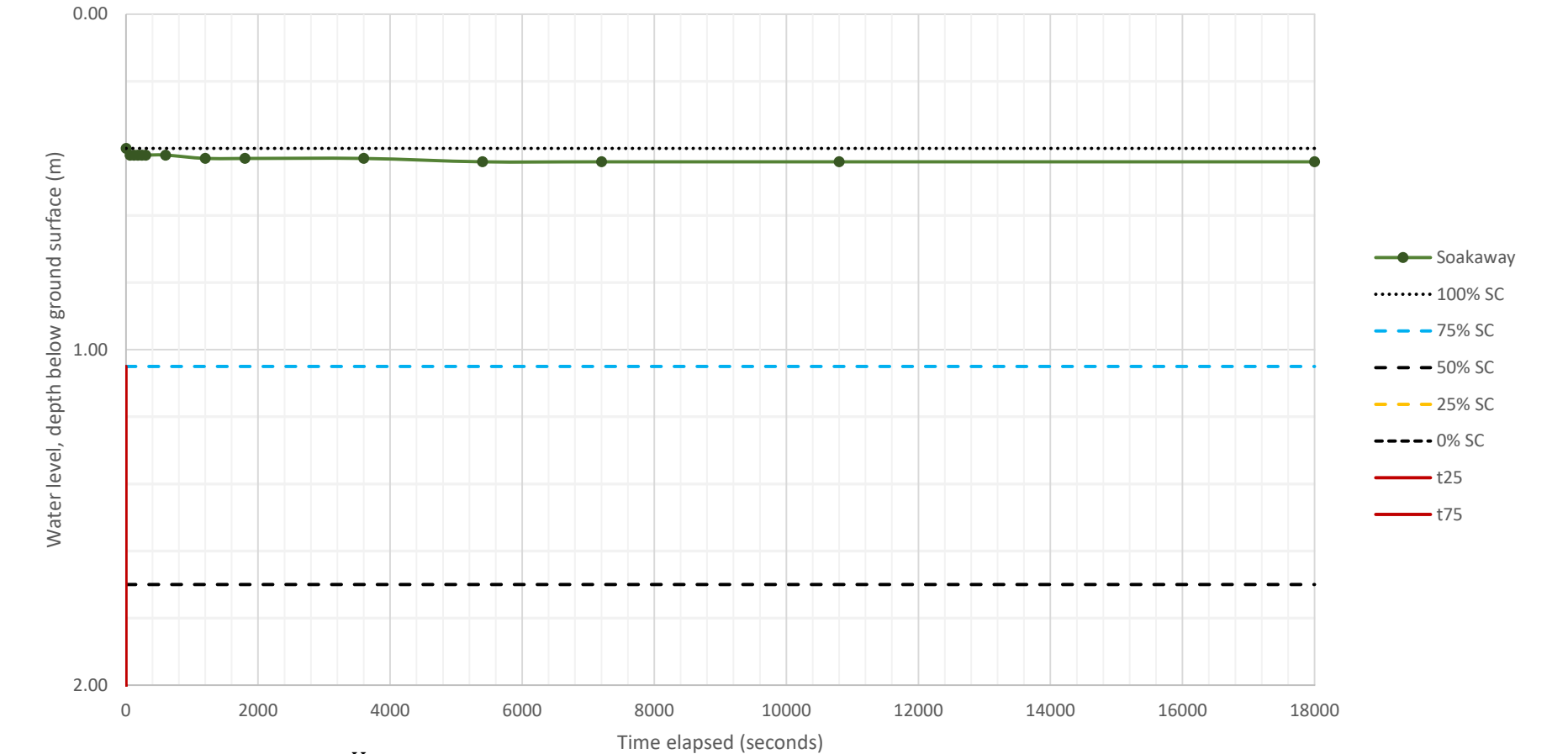
Hole depth after test:

2.00 m bgl

| Time, t (seconds) | Water Depth (m) |
|-------------------|-----------------|
| 0                 | 0.40            |
| 60                | 0.42            |
| 120               | 0.42            |
| 180               | 0.42            |
| 240               | 0.42            |
| 300               | 0.42            |
| 600               | 0.42            |
| 1200              | 0.43            |
| 1800              | 0.43            |
| 3600              | 0.43            |
| 5400              | 0.44            |
| 7200              | 0.44            |
| 10800             | 0.44            |
| 18000             | 0.44            |
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| Time, t (seconds) | Water Depth (m) |
|-------------------|-----------------|
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| Time, t (seconds) | Water Depth (m) |
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Soil infiltration rate,  $f = \frac{V_{p\ 75-25}}{a_{s\ 50} \times t_{p\ 75-25}}$

Where

$V_{p\ 75-25}$

Effective storage volume of water in borehole between 75% and 25% effective storage capacity (SC) depth.

2.7300 m3

$a_{s\ 50}$

Internal surface area of borehole up to 50% effective storage capacity (SC) depth, including the base area

12.7600 m2

$t_{p\ 75-25}$

Time for water level to fall from 75% to 25% effective storage capacity (SC) depth.

seconds

$f =$

-

m/s

Comments:  
Test ran for 300 minutes. Test results not displayed due to requirments not being met. 1000L added.

BAM R Soil Infiltration Test 06/03/2020