



Soil Infiltration Rate (Soakaway) Test

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

Borehole number:

TP38 (SA01)

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Project name: Halewood Leisure Centre
Project number: Clyde 0255
Client: WSP
Engineer: WSP

Survey grid system: OSGB
Co-ordinates: mE
mN
Ground level: mOD

Hole type: TP
Checked by: LG
Approved by: CB

Date of test: 21/01/2025 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

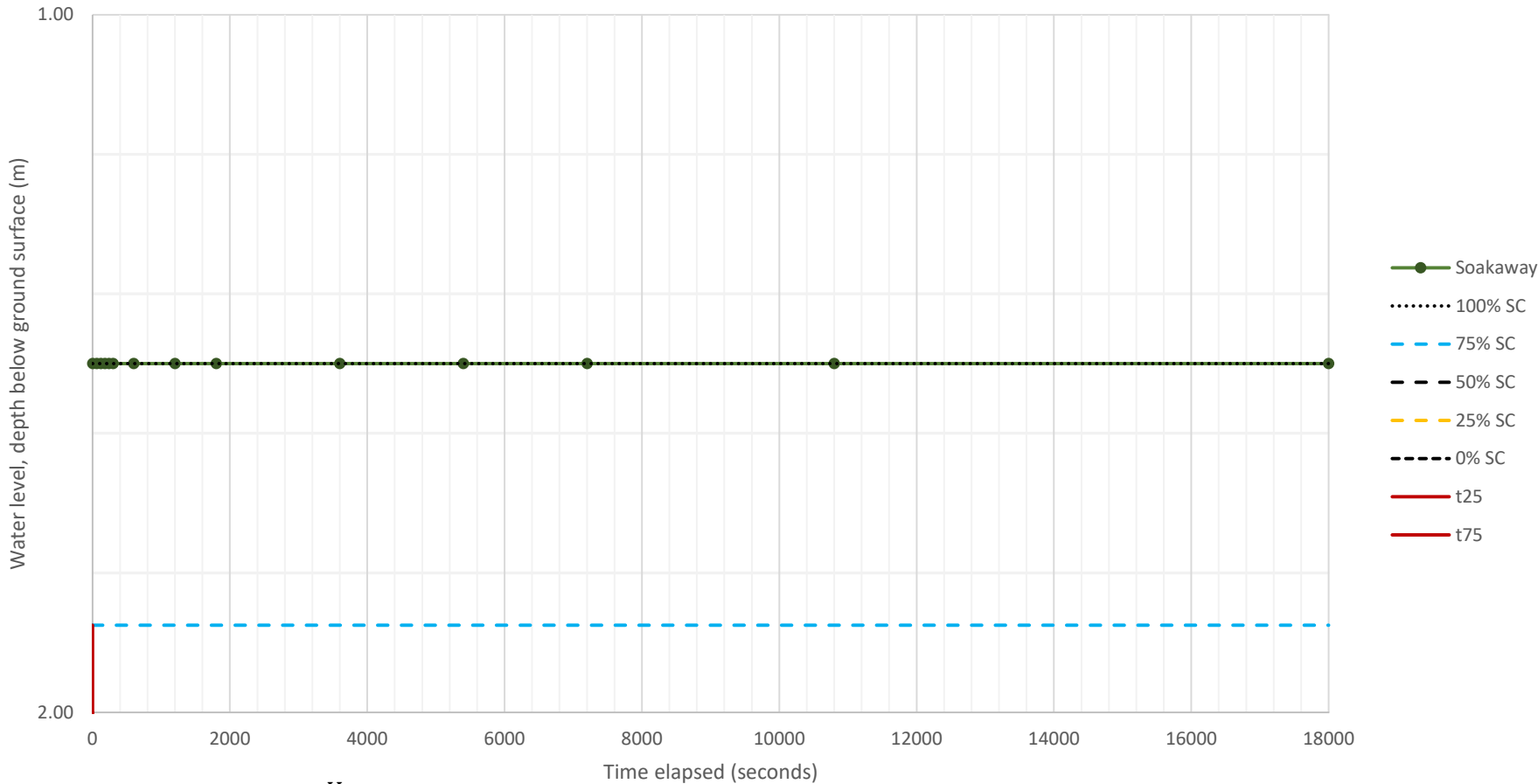
Shape of test section: Trial Pit (Cuboid)
Test section dimensions: 0.60m x 3.50m
Type of filter used: None
(Assumed porosity) 100 %

Groundwater before: 3.00 m bgl
Water added: 1000 l
Water level start of test: 1.50 m bgl
Water level end of test: 1.50 m bgl
Hole depth after test: 2.00 m bgl

Time, t (seconds)	Water Depth (m)
0	1.50
60	1.50
120	1.50
180	1.50
240	1.50
300	1.50
600	1.50
1200	1.50
1800	1.50
3600	1.50
5400	1.50
7200	1.50
10800	1.50
18000	1.50

Time, t (seconds)	Water Depth (m)

Time, t (seconds)	Water Depth (m)



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. 1.5750 m3
 $a_{s\ 50}$ Internal surface area of borehole up to 50% effective storage capacity (SC) depth, including the base area 8.2500 m2
 $t_{p\ 75-25}$ Time for water level to fall from 75% to 25% effective storage capacity (SC) depth. seconds

$f = \text{ - m/s}$

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