

INSITU SOAKAWAY TEST RESULTS

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Trial pit No.: SA01

Soil Profile:

Depth (m)		Description
From:	To:	
0.00	0.30	Topsoil.
0.30	1.15	Medium dense yellow mottled grey gravelly sand.

Sketch plan of test zone

Not to scale

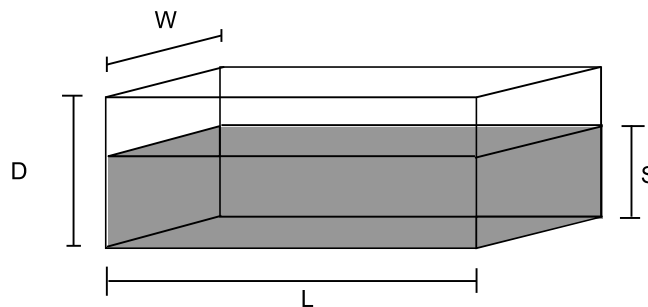
All dimensions in metres.

D = Depth of test pit =

W = Width of test pit =

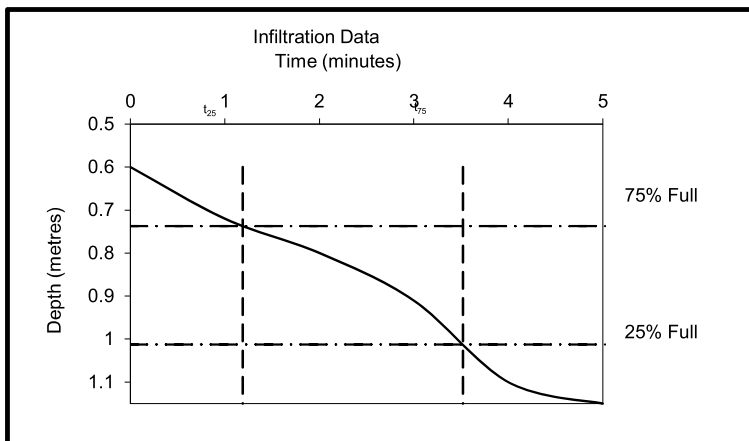
L = Length of test pit =

S = Storage depth (of water)



Soakaway Test Run 1

Test Date: 19.05.2025



Time (minutes)	Depth (m)
0	0.60
1	0.72
2	0.80
3	0.91
4	1.10
5	1.15

Notes:

Therefore:

$$S = 0.55 \text{ m} \quad a_{p50} = 1.06 \text{ m}^2 \quad V_{p75-25} = 0.0866 \text{ m}^3$$

From the above graph,

$$t_{p25} = 1.19 \text{ (min)} \quad t_{p75} = 3.52 \text{ (min)}$$

$$\text{Soil Infiltration Rate: } f = \frac{V_{p75-25} \times N}{a_{p50} \times t_{p75-25}} = 5.86\text{E-}04 \quad f_{\text{run1}} = \underline{5.86 \times 10^{-4}} \text{ m/s}$$
$$\text{or } 2.11\text{E+}00 \quad \text{or } \underline{2.11 \times 10^{-0}} \text{ m/hr}$$

Test and analysis carried out in general accordance with BRE Digest 365 : 2007

Job No.: EAL.12.25

Site: Leafy Lane Playing Fields

Client: Surfacing Standards Ltd.



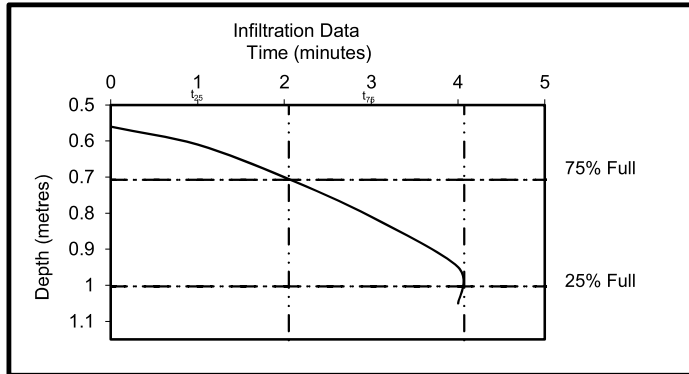
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Trial pit No.: SA01

Soakaway Test Run 2

Test Date: 19.05.2025



Time (minutes)	Depth (m)
0.0	0.56
1.0	0.61
2.0	0.70
3.0	0.81
4.0	0.95
4.0	1.05

Therefore:

$$S = 0.59 \text{ m} \quad a_{p50} = 1.11 \text{ m}^2 \quad V_{p75-25} = 0.0929 \text{ m}^3$$

From the above graph,

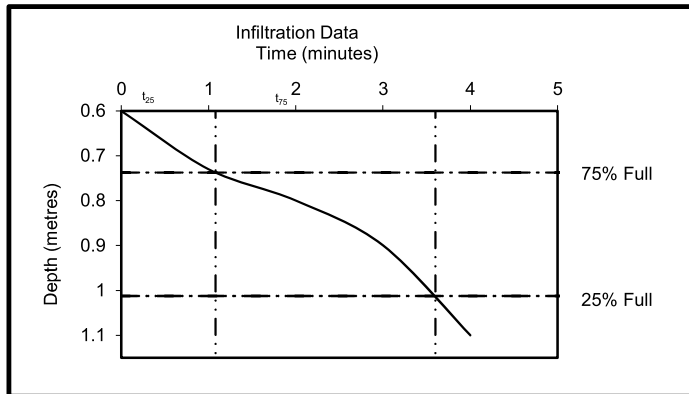
$$t_{p25} = 2.05 \text{ (min)} \quad t_{p75} = 4.07 \text{ (min)}$$

$$\text{Soil Infiltration Rate: } f = \frac{V_{p75-25} \times N}{a_{p50} \times t_{p75-25}} = 6.90\text{E-}04 \text{ or } 2.48\text{E+}00$$

$$f_{run2} = \frac{6.90 \times 10^{-4}}{2.48 \times 10^{-0}} \text{ m/s or } \frac{6.90 \times 10^{-4}}{2.48 \times 10^{-0}} \text{ m/hr}$$

Soakaway Test Run 3

Test Date: 19.05.2025



Time (minutes)	Depth (m)
0.0	0.60
1.0	0.73
2.0	0.80
3.0	0.90
4.0	1.10

Therefore:

$$S = 0.55 \text{ m} \quad a_{p50} = 1.06 \text{ m}^2 \quad V_{p75-25} = 0.0866 \text{ m}^3$$

From the above graph,

$$t_{p25} = 1.08 \text{ (min)} \quad t_{p75} = 3.6 \text{ (min)}$$

$$\text{Soil Infiltration Rate: } f = \frac{V_{p75-25} \times N}{a_{p50} \times t_{p75-25}} = 5.42\text{E-}04 \text{ or } 1.95\text{E+}00$$

$$f_{run3} = \frac{5.42 \times 10^{-4}}{1.95 \times 10^{-0}} \text{ m/s or } \frac{5.42 \times 10^{-4}}{1.95 \times 10^{-0}} \text{ m/hr}$$

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