

Soil infiltration test

Based on BRE 365 - Soakaway Design (2003)

Project: Otterfield Road
Client: Bugler Developments Ltd
Project Ref: GB866

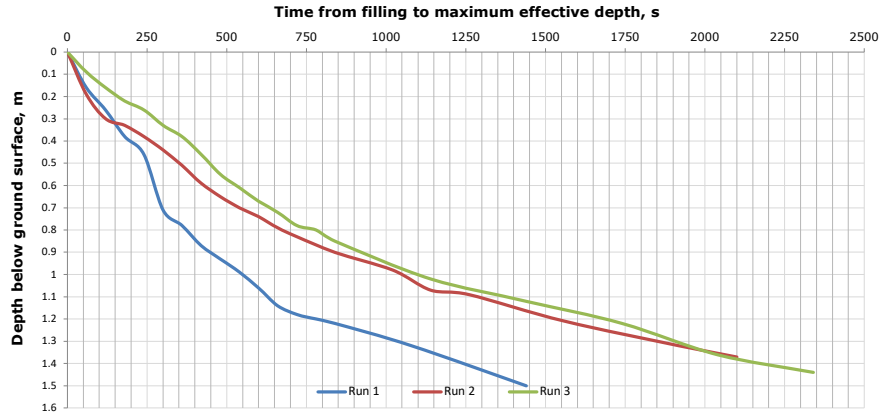
Made by: DWB **Checker:** FI
Date: 22/11/24 **Date:** 29/11/24

KEY
Input
Output

Test details:

Test ref.: TP24-01

Pit length (m):	2.00
Pit width (m):	0.50
Pit depth (m):	1.50



Run 1

Effective depth (m)	1.50
D ₇₅ (m)	0.38
D ₂₅ (m)	1.13
V _{p75-25} (m ³)	0.75
t ₇₅ (s)	178
t ₂₅ (s)	649
t _{p75-25} (s)	471.25
a _{p50} (m ²)	4.75
Infiltration rate (m/s)	0.00033506

Field Data

Time (m)	Time (s)	Depth (m)
0	0	0
1	60	0.16
2	120	0.26
3	180	0.38
4	240	0.46
5	300	0.71
6	360	0.78
7	420	0.87
8	480	0.93
9	540	0.99
10	600	1.06
11	660	1.14
12	720	1.18
13	780	1.2
14	840	1.22
18	1080	1.32
24	1440	1.5

Run 2

Effective depth (m)	1.50
D ₇₅ (m)	0.38
D ₂₅ (m)	1.13
V _{p75-25} (m ³)	0.75
t ₇₅ (s)	234
t ₂₅ (s)	1347.5
t _{p75-25} (s)	1113.5
a _{p50} (m ²)	4.75
Infiltration rate (m/s)	0.0001418

Field Data

Time (m)	Time (s)	Depth (m)
0	0	0
1	60	0.19
2	120	0.3
3	180	0.33
4	240	0.38
5	300	0.44
6	360	0.51
7	420	0.59
8	480	0.65
9	540	0.7
10	600	0.74
11	660	0.79
12	720	0.83
14	840	0.9
17	1020	0.98
19	1140	1.07
21	1260	1.09
26	1560	1.21
32	1920	1.32
35	2100	1.37
38	2280	1.42
43	2580	1.5

Run 3

Effective depth (m)	1.50
D ₇₅ (m)	0.38
D ₂₅ (m)	1.13
V _{p75-25} (m ³)	0.75
t ₇₅ (s)	354
t ₂₅ (s)	1455
t _{p75-25} (s)	1101
a _{p50} (m ²)	4.75
Infiltration rate (m/s)	0.00014341

Field Data

Time (m)	Time (s)	Depth (m)
0	0	0
1	60	0.09
2	120	0.16
3	180	0.22
4	240	0.26
5	300	0.33
6	360	0.38
7	420	0.46
8	480	0.55
9	540	0.61
10	600	0.67
11	660	0.72
12	720	0.78
13	780	0.8
14	840	0.85
19	1140	1.02
24	1440	1.12
29	1740	1.22
34	2040	1.36
39	2340	1.44
44	2640	1.5

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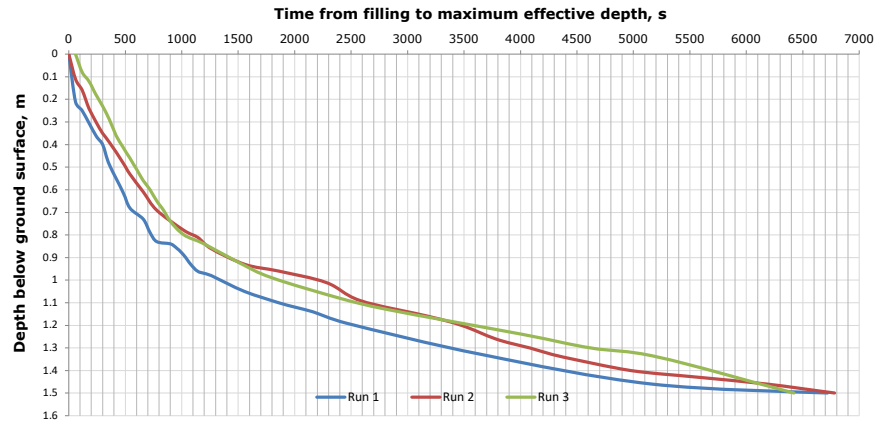
KEY
Input
Output

Notes:

Test details:

Test ref.: TP24-03

Pit length (m):	2.00
Pit width (m):	0.50
Pit depth (m):	1.50



Run 1

Effective depth (m)	1.50
D ₇₅ (m)	0.38
D ₂₅ (m)	1.13
V _{p75-25} (m ³)	0.75
t ₇₅ (s)	263
t ₂₅ (s)	2048
t _{p75-25} (s)	1785
a _{p50} (m ²)	4.75

Infiltration rate (m/s) **8.8456E-05**

Field Data

Time (m)	Time (s)	Depth (m)
0	0	0
1	60	0.21
2	120	0.25
4	240	0.36
5	300	0.40
6	360	0.49
8	480	0.61
9	540	0.68
11	660	0.73
12	720	0.79
13	780	0.83
15	900	0.84
16	960	0.86
17	1020	0.89
18	1080	0.93
19	1140	0.96
20	1200	0.97
21	1260	0.98
26	1560	1.05
31	1860	1.1
36	2160	1.14
41	2460	1.19
61	3660	1.33
86	5160	1.46
112	6720	1.50

Run 2

Effective depth (m)	1.50
D ₇₅ (m)	0.38
D ₂₅ (m)	1.13
V _{p75-25} (m ³)	0.75
t ₇₅ (s)	338
t ₂₅ (s)	2880
t _{p75-25} (s)	2542.5
a _{p50} (m ²)	4.75

Infiltration rate (m/s) **6.2102E-05**

Field Data

Time (m)	Time (s)	Depth (m)
0	0	0
1	60	0.11
2	120	0.16
3	180	0.24
4	240	0.3
5	300	0.35
6	360	0.39
8	480	0.48
9	540	0.53
11	660	0.61
13	780	0.69
17	1020	0.78
19	1140	0.81
21	1260	0.86
26	1560	0.93
31	1860	0.96
38	2280	1.01
43	2580	1.09
53	3180	1.16
58	3480	1.2
63	3780	1.26
68	4080	1.3
73	4380	1.34
83	4980	1.4
93	5580	1.43
103	6180	1.46
113	6780	1.5

Run 3

Effective depth (m)	1.50
D ₇₅ (m)	0.38
D ₂₅ (m)	1.13
V _{p75-25} (m ³)	0.75
t ₇₅ (s)	438
t ₂₅ (s)	2778
t _{p75-25} (s)	2340
a _{p50} (m ²)	4.75

Infiltration rate (m/s) **6.7476E-05**

Field Data

Time (m)	Time (s)	Depth (m)
1	60	0
2	120	0.08
3	180	0.12
4	240	0.18
5	300	0.23
6	360	0.29
7	420	0.36
8	480	0.41
9	540	0.46
10	600	0.51
11	660	0.56
12	720	0.6
13	780	0.65
14	840	0.69
15	900	0.74
17	1020	0.8
20	1200	0.84
25	1500	0.92
30	1800	0.99
40	2400	1.08
47	2820	1.13
67	4020	1.24
77	4620	1.3
87	5220	1.34
107	6420	1.5

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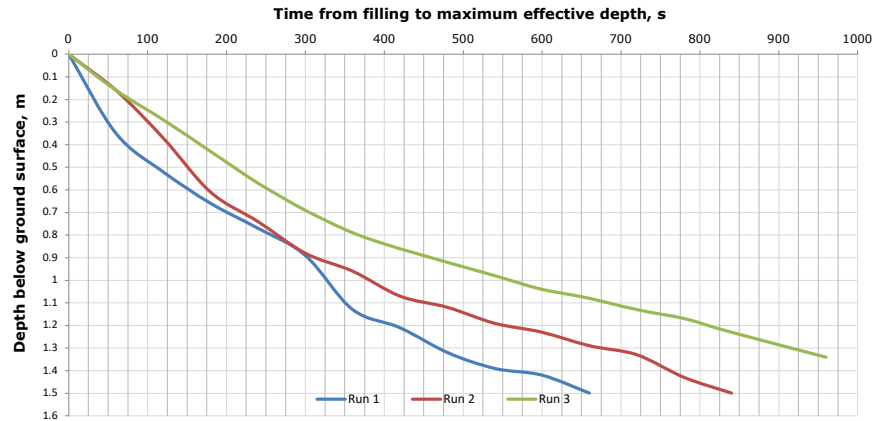
Output

Notes:

Test details:

Test ref.: TP24-04

Pit length (m):	2.00
Pit width (m):	0.50
Pit depth (m):	1.50



Run 1

Effective depth (m)	1.50
D₇₅ (m)	0.38
D₂₅ (m)	1.13
V_{p75-25} (m³)	0.75
t₇₅ (s)	69
t₂₅ (s)	359
t_{p75-25} (s)	290
a_{p50} (m²)	4.75

Infiltration rate (m/s) 0.0005446

Field Data

Time (m)	Time (s)	Depth (m)
0	0	0
1	60	0.35
2	120	0.52
3	180	0.66
4	240	0.77
5	300	0.89
6	360	1.13
7	420	1.21
8	480	1.32
9	540	1.39
10	600	1.42
11	660	1.50

Run 2

Effective depth (m)	1.50
D₇₅ (m)	0.38
D₂₅ (m)	1.13
V_{p75-25} (m³)	0.75
t₇₅ (s)	121
t₂₅ (s)	484
t_{p75-25} (s)	363
a_{p50} (m²)	4.75

Infiltration rate (m/s) 0.00043493

Field Data

Time (m)	Time (s)	Depth (m)
0	0	0
1	60	0.16
2	120	0.37
3	180	0.61
4	240	0.74
5	300	0.88
6	360	0.96
7	420	1.07
8	480	1.12
9	540	1.19
10	600	1.23
11	660	1.29
12	720	1.33
13	780	1.43
14	840	1.5

Run 3

Effective depth (m)	1.50
D₇₅ (m)	0.38
D₂₅ (m)	1.13
V_{p75-25} (m³)	0.75
t₇₅ (s)	156
t₂₅ (s)	714
t_{p75-25} (s)	558
a_{p50} (m²)	4.75

Infiltration rate (m/s) 0.00028318

Field Data

Time (m)	Time (s)	Depth (m)
0	0	0
1	60	0.16
2	120	0.29
3	180	0.43
4	240	0.57
5	300	0.69
6	360	0.79
7	420	0.86
9	540	0.98
10	600	1.04
11	660	1.08
12	720	1.13
13	780	1.17
14	840	1.23
16	960	1.34