



SOIL INFILTRATION TEST

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1000

Test No: 1

Date: 29.11.2017

Water level during test

Time mins	Depth m bgl
0	0.750
15	0.900
25	1.110
60	1.350
90	1.430

Trial pit dimensions

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

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)

16

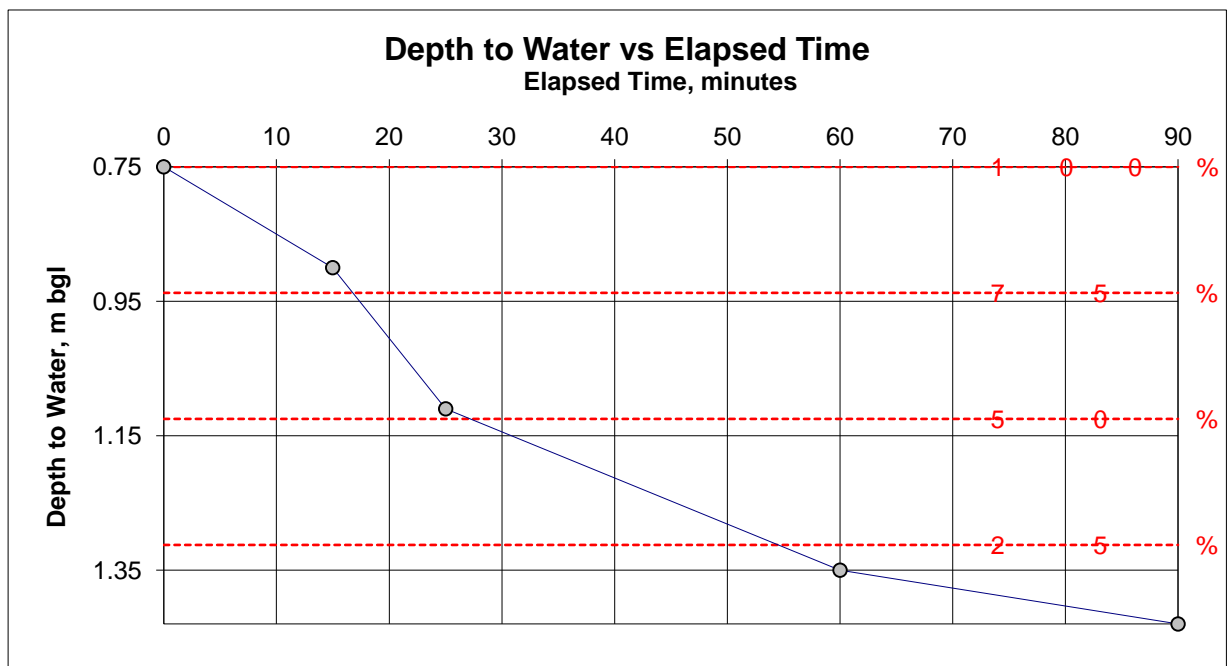
time at 25% effective depth (mins)

55

(from graph)

Calculated Soil Infiltration Rate =

5.0E-05 m/sec





SOIL INFILTRATION TEST

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1001

Test No: 1

Date: 29.11.2017

Water level during test

Time mins	Depth m bgl
0	0.250
15	0.255
25	0.260
40	0.300
80	0.320
90	0.330

Trial pit dimensions

depth (m)	0.50
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

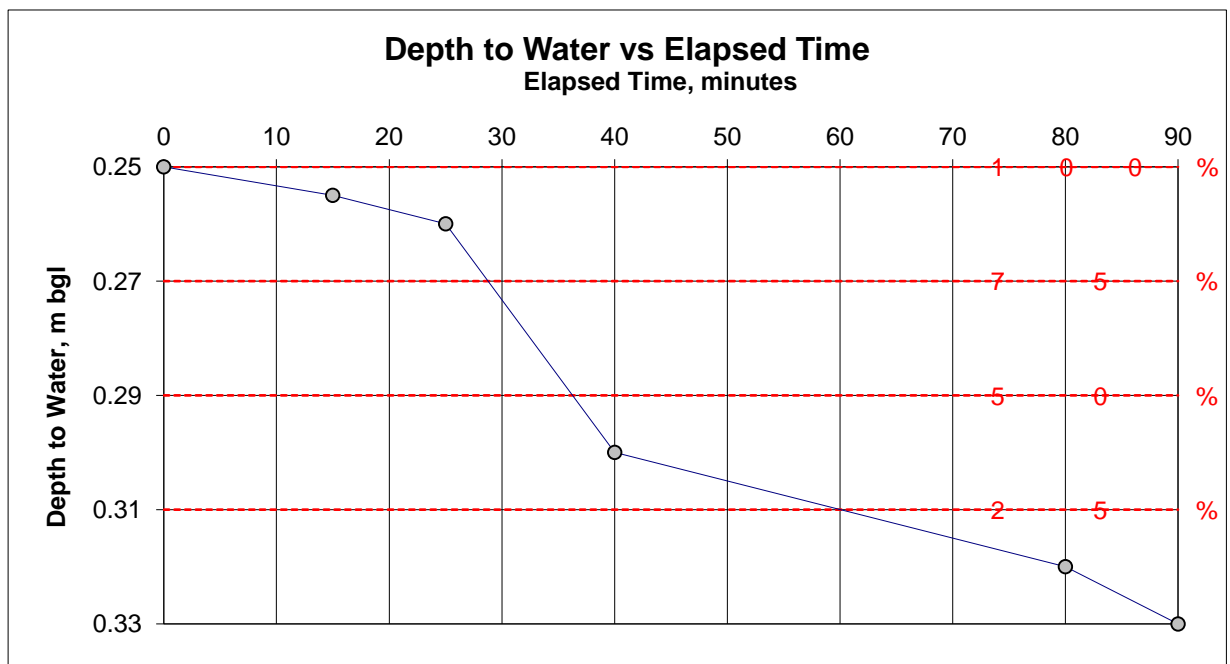
t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 29

time at 25% effective depth (mins) 60

(from graph)

Calculated Soil Infiltration Rate = 1.0E-05 m/sec





SOIL INFILTRATION TEST

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1002

Test No: 1

Date: 30.11.2017

Water level during test

Time mins	Depth m bgl
0	0.270
15	0.255
25	0.360
40	0.390
80	0.420
140	0.450
160	0.480

Trial pit dimensions

depth (m)	0.50
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

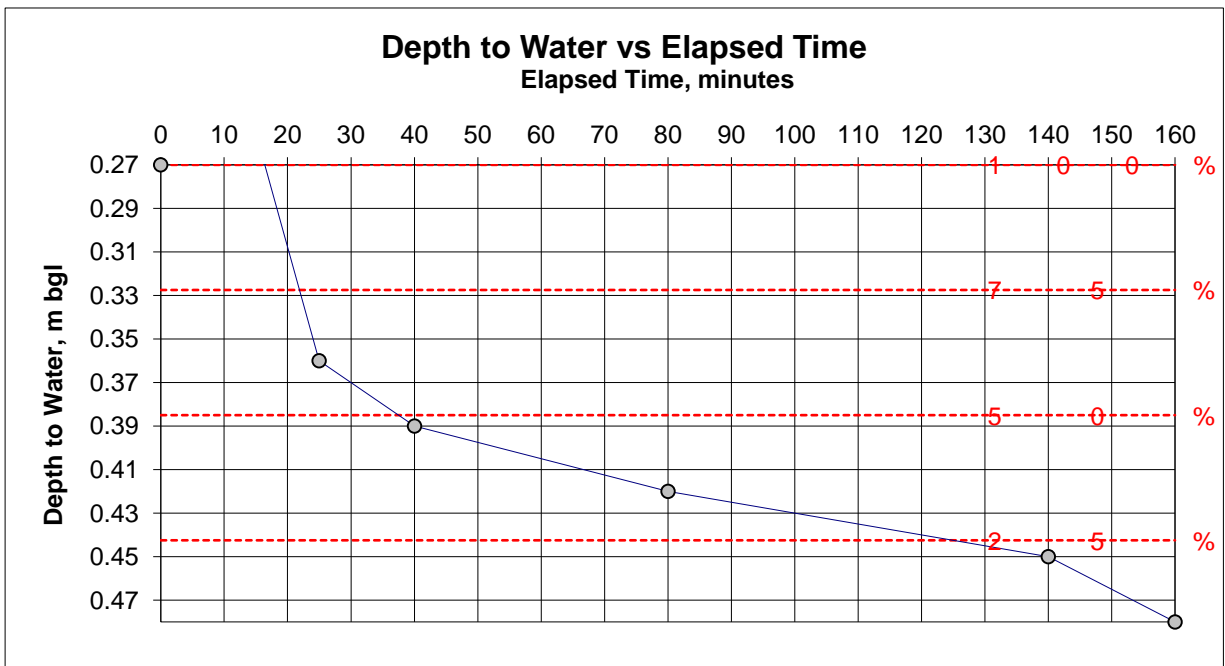
V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 22
 time at 25% effective depth (mins) 96
 (from graph)

Calculated Soil Infiltration Rate = 1.5E-05 m/sec





SOIL INFILTRATION TEST

Project:
 Whitelands Way, Bicester KME

Project No:
 M42315

Test Location: SA1003

Test No: 1

Date: 29.11.2017

Water level during test

Time mins	Depth m bgl
0	0.600
10	0.750
20	0.920
35	1.000
51	1.150
105	1.200

Trial pit dimensions

depth (m)	1.20
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

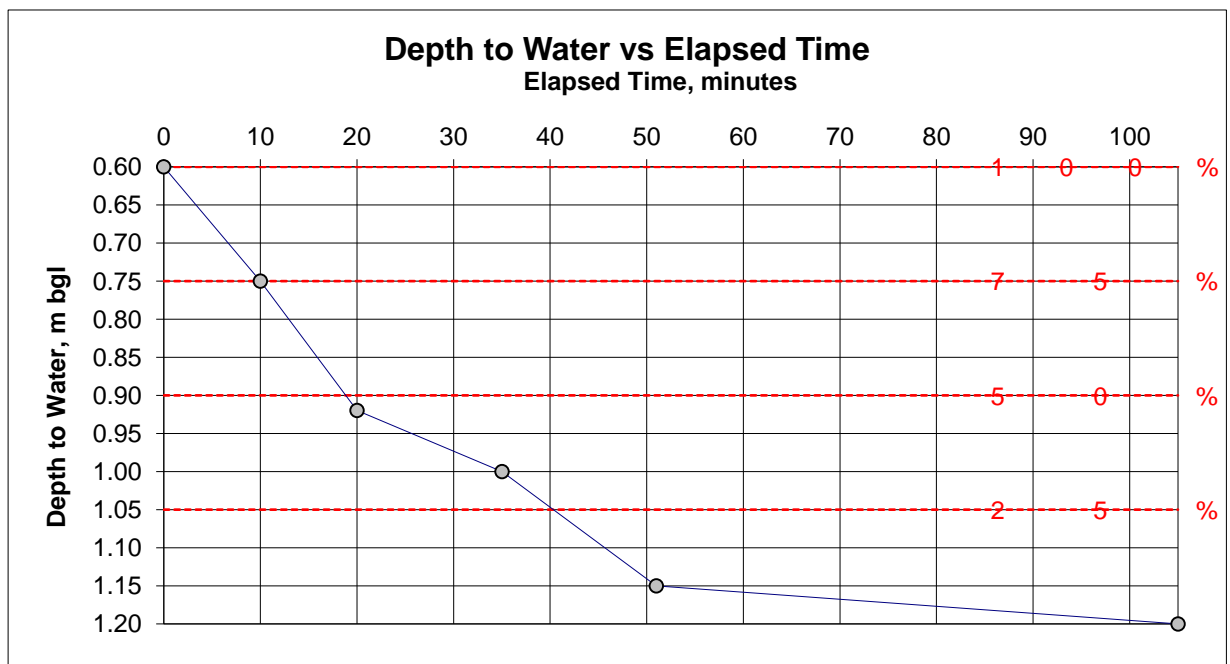
t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 10

time at 25% effective depth (mins) 40

(from graph)

Calculated Soil Infiltration Rate = 6.7E-05 m/sec





SOIL INFILTRATION TEST

Project:
 Whitelands Way, Bicester KME

Project No:
 M42315

Test Location: SA1004

Test No: 1

Date: 29.11.2017

Water level during test

Time mins	Depth m bgl
0	0.330
10	0.360
20	0.400
47	0.500
63	0.600
82	0.630
112	0.650

Trial pit dimensions

depth (m)	0.65
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

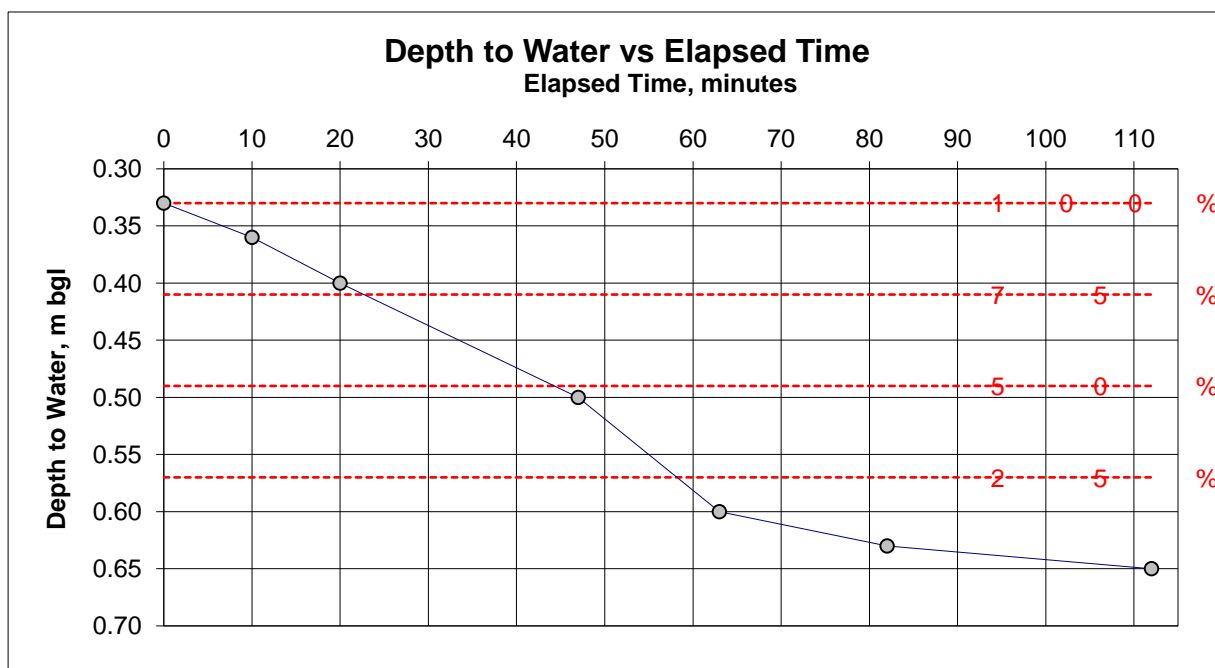
V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 22
 time at 25% effective depth (mins) 58
 (from graph)

Calculated Soil Infiltration Rate = 4.1E-05 m/sec





SOIL INFILTRATION TEST

Project:
 Whitelands Way, Bicester KME

Project No:
 M42315

Test Location: SA1004

Test No: 2

Date: 29.11.2017

Water level during test

Time mins	Depth m bgl
0	0.330
10	0.370
20	0.410
42	0.450

Trial pit dimensions

depth (m)	0.65
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

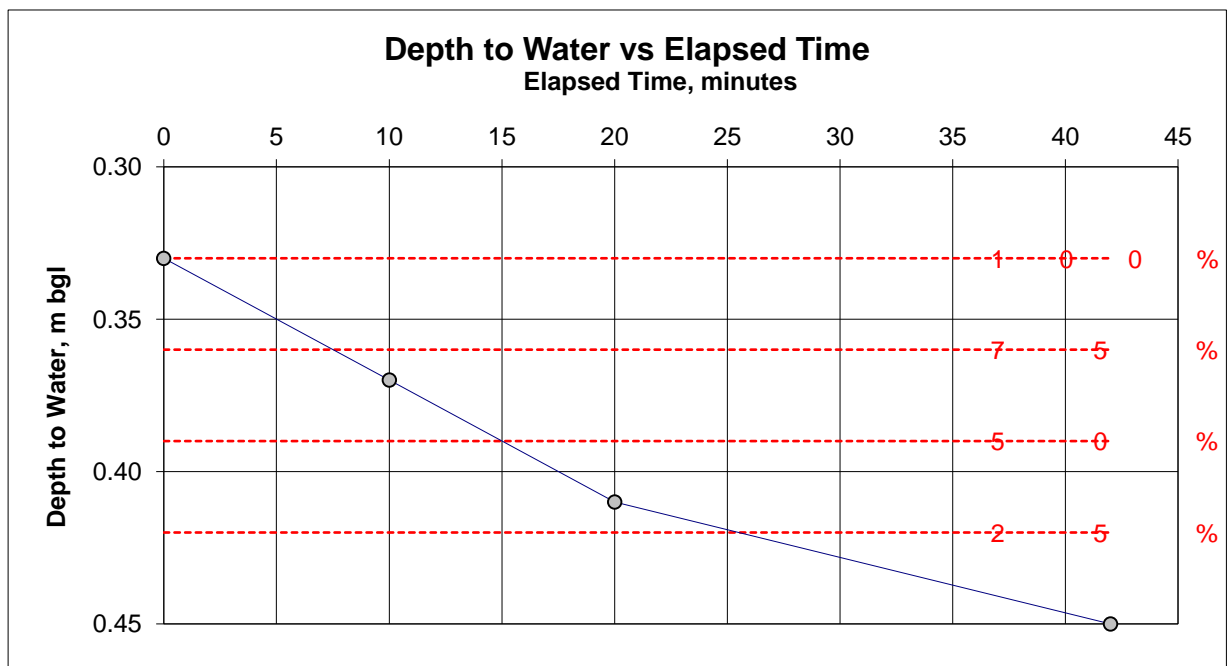
V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 7.5
 time at 25% effective depth (mins) 25
 (from graph)

Calculated Soil Infiltration Rate = 2.5E-05 m/sec





SOIL INFILTRATION TEST

Project:
 Whitelands Way, Bicester KME

Project No:
 M42315

Test Location: SA1005 Test No: 1 Date: 29.11.2017

Water level during test

Time mins	Depth m bgl
0	0.250
20	0.260
35	0.280
60	0.300
90	0.320
120	0.330

Trial pit dimensions

depth (m)	0.50
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

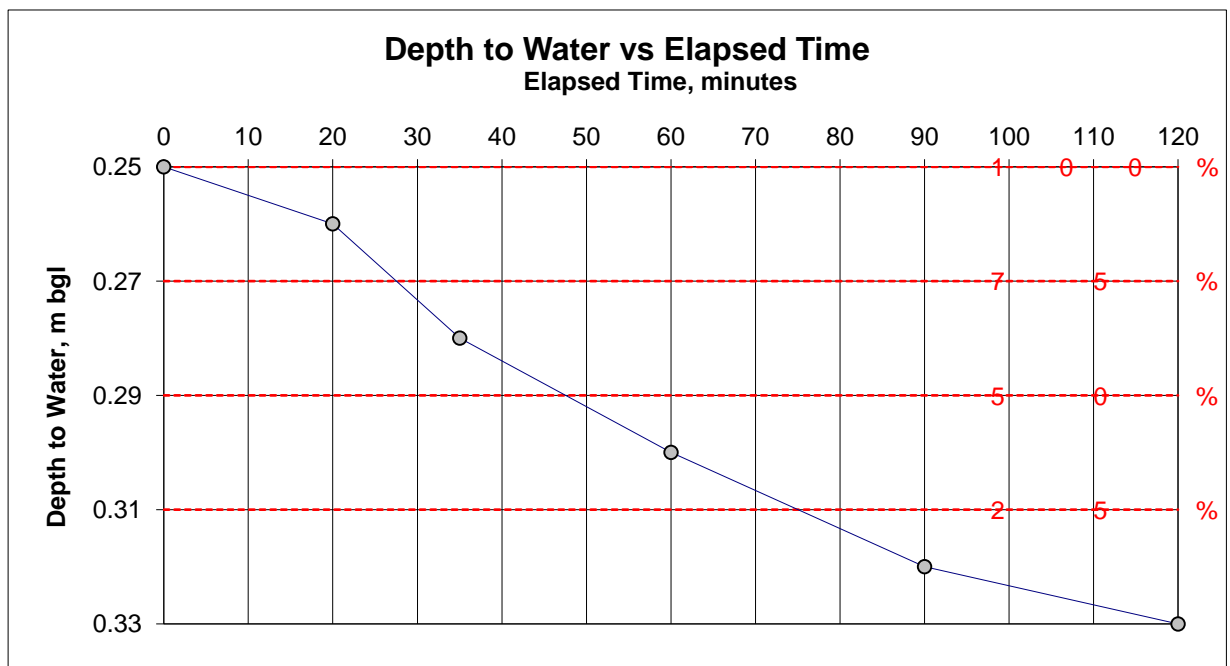
t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 28

time at 25% effective depth (mins) 75

(from graph)

Calculated Soil Infiltration Rate = 6.9E-06 m/sec



**SOIL INFILTRATION TEST**

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1006

Test No: 1

Date: 30.11.2017

Water level during test

Time mins	Depth m bgl
0	0.400
15	0.480
20	0.510
45	0.520
75	0.530
120	0.550

Trial pit dimensions

depth (m)	0.55
length (m)	2.00
width (m)	0.50

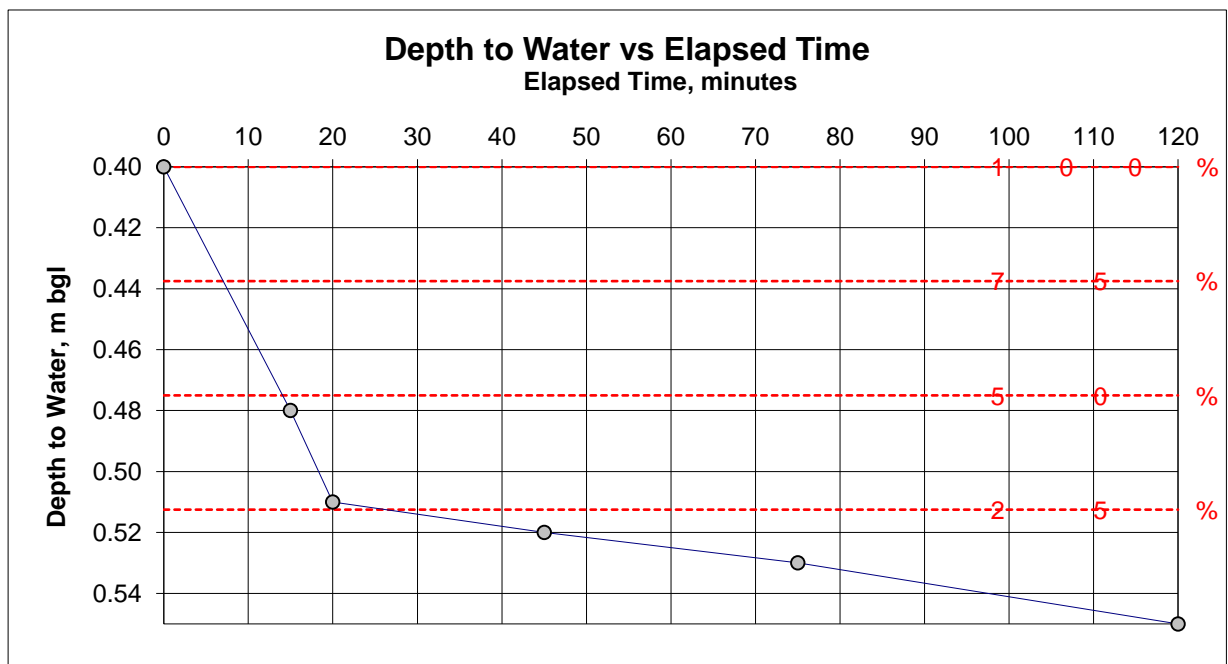
$$f = \frac{V_p}{\alpha_p \times t_p}$$

 f = soil infiltration rate V_p = volume of water from 75% to 25% effective depth α_p = Internal surface area at 50% effective depth t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 7

time at 25% effective depth (mins) 26

(from graph)

Calculated Soil Infiltration Rate = 4.8E-05 m/sec



SOIL INFILTRATION TEST

Project:
 Whitelands Way, Bicester KME

Project No:
 M42315

Test Location: SA1006

Test No: 2

Date: 30.11.2017

Water level during test

Time mins	Depth m bgl
0	0.400
15	0.440
25	0.470
45	0.500

Trial pit dimensions

depth (m)	0.55
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

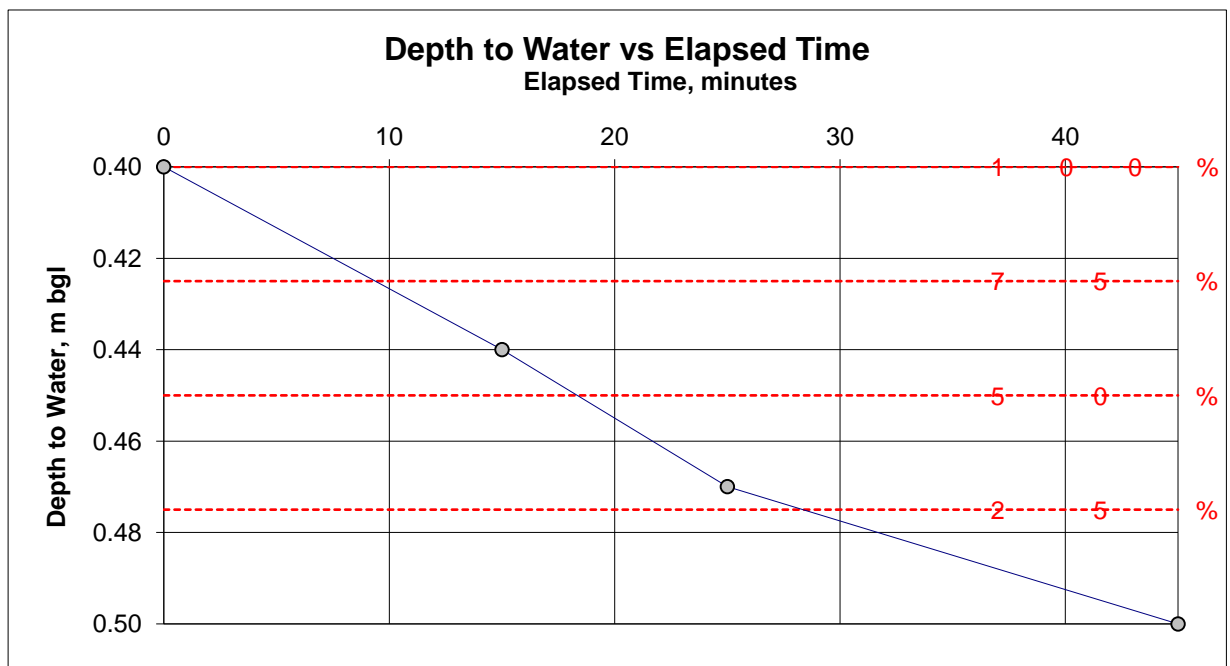
α_p = Internal surface area at 50% effective depth

t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 9

time at 25% effective depth (mins) 29
 (from graph)

Calculated Soil Infiltration Rate = 2.8E-05 m/sec





SOIL INFILTRATION TEST

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1007

Test No: 1

Date: 29.11.2017

Water level during test

Time mins	Depth m bgl
0	1.000
10	1.030
23	1.060
42	1.200
57	1.320
90	1.440
110	1.550

Trial pit dimensions

depth (m)	1.60
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

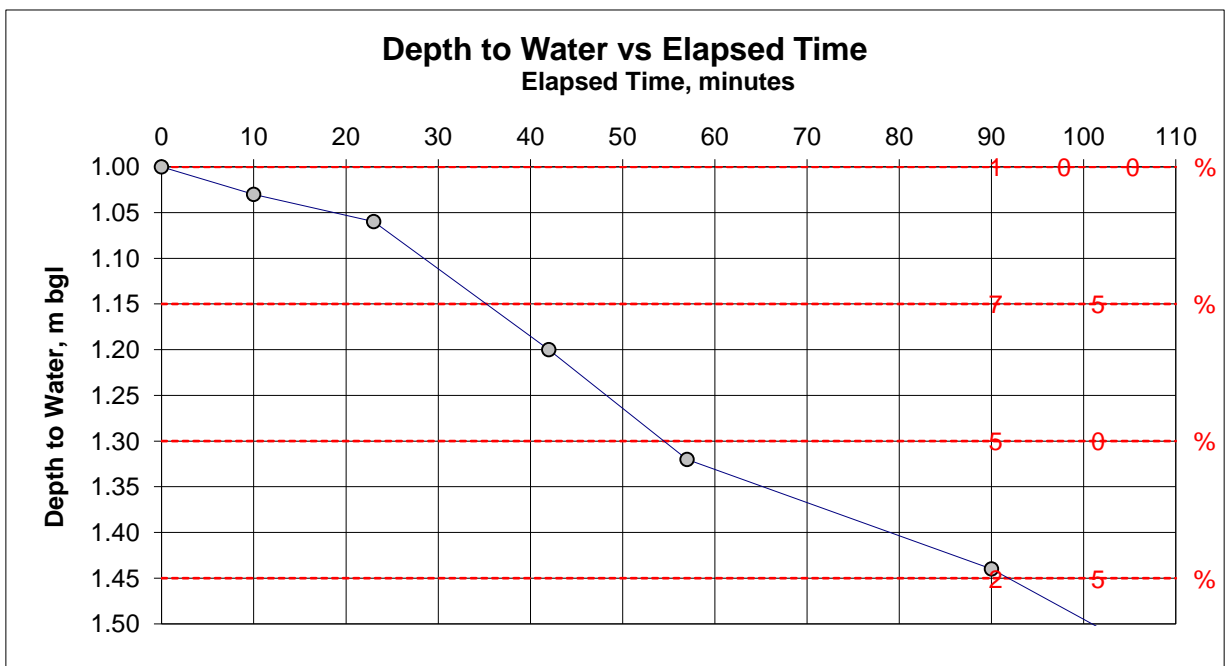
t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 34

time at 25% effective depth (mins) 82

(from graph)

Calculated Soil Infiltration Rate = 3.8E-05 m/sec





SOIL INFILTRATION TEST

Project:
Whitelands Way, Bicester KME

Project No:
M42315

Test Location: SA1007

Test No: 2

Date: 29.11.2017

Water level during test

Time mins	Depth m bgl
0	0.500
5	0.590
15	0.760
20	0.870
36	1.000

Trial pit dimensions

depth (m)	1.60
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

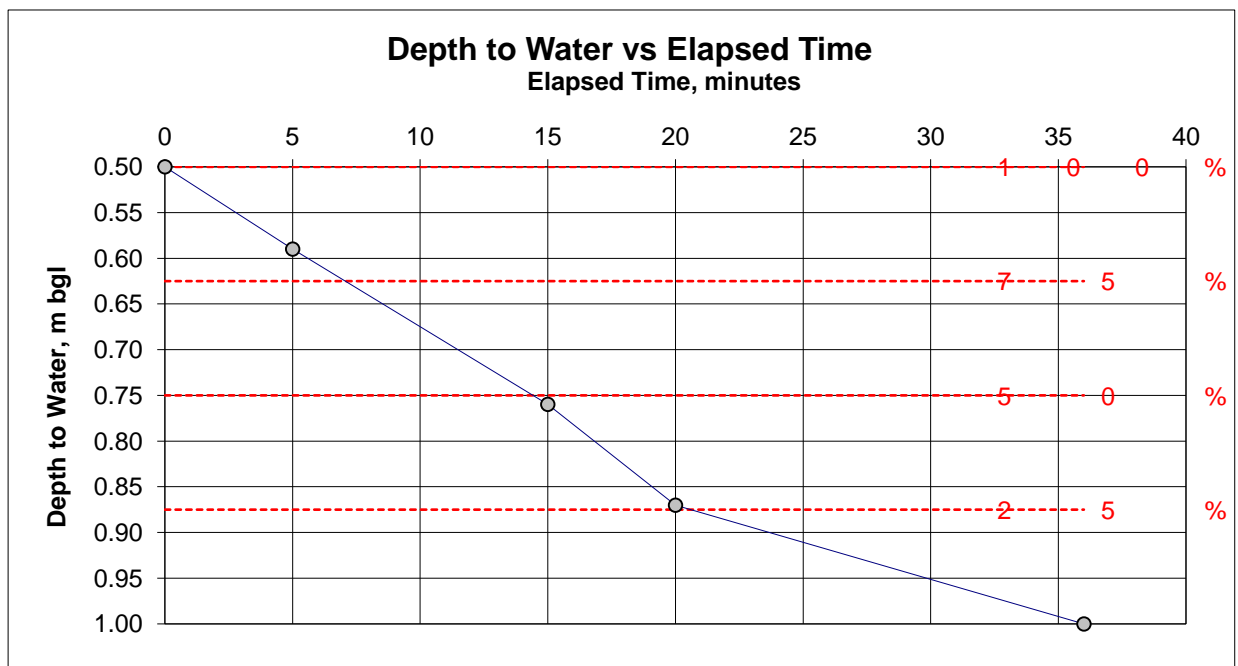
Vp = volume of water from 75% to 25% effective depth

αp = Internal surface area at 50% effective depth

tp = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 15
time at 25% effective depth (mins) 20
(from graph)

Calculated Soil Infiltration Rate = 1.6E-04 m/sec





SOIL INFILTRATION TEST

Project:
 Whitelands Way, Bicester KME

Project No:
 M42315

Test Location: SA1008

Test No: 1

Date: 01.12.2017

Water level during test

Time mins	Depth m bgl
0	1.200
15	1.350
30	1.510
65	1.740
105	1.770
137	1.782
195	1.800

Trial pit dimensions

depth (m)	1.80
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

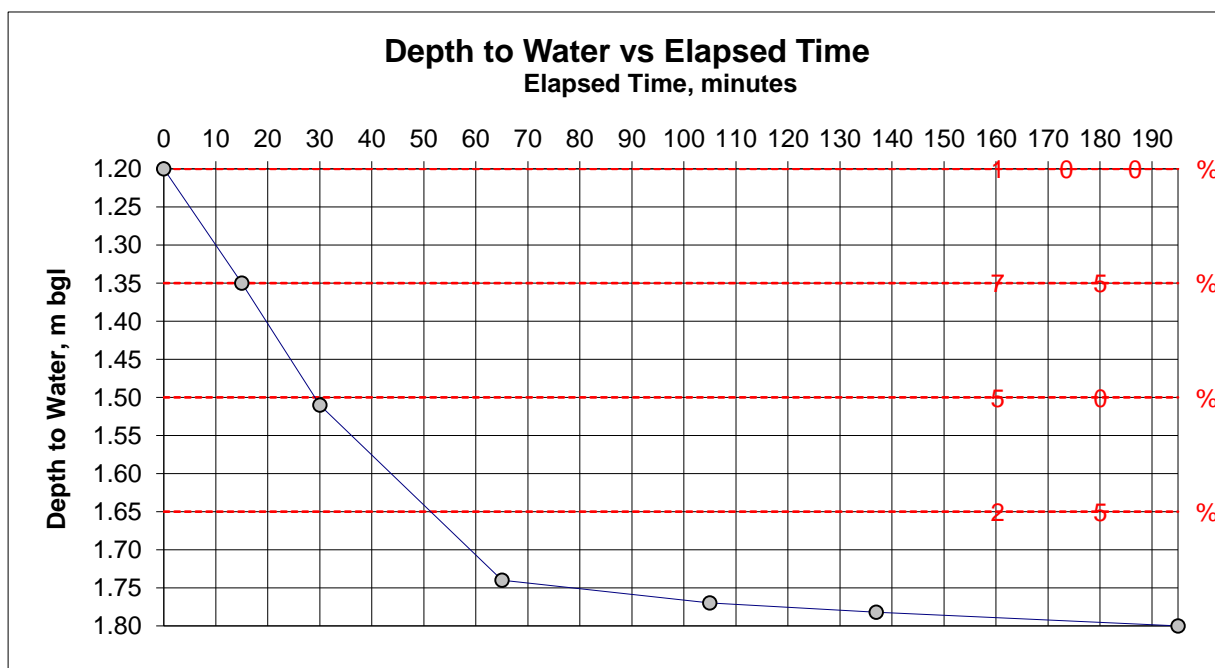
V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 15
 time at 25% effective depth (mins) 52
 (from graph)

Calculated Soil Infiltration Rate = 5.4E-05 m/sec





SOIL INFILTRATION TEST

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1009

Test No: 1

Date: 30.11.2017

Water level during test

Time mins	Depth m bgl
0	0.350
15	0.360
25	0.370
42	0.400
100	0.450
125	0.550
160	0.570
190	0.600
220	0.620

Trial pit dimensions

depth (m)	0.70
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

Vp = volume of water from 75% to 25% effective depth

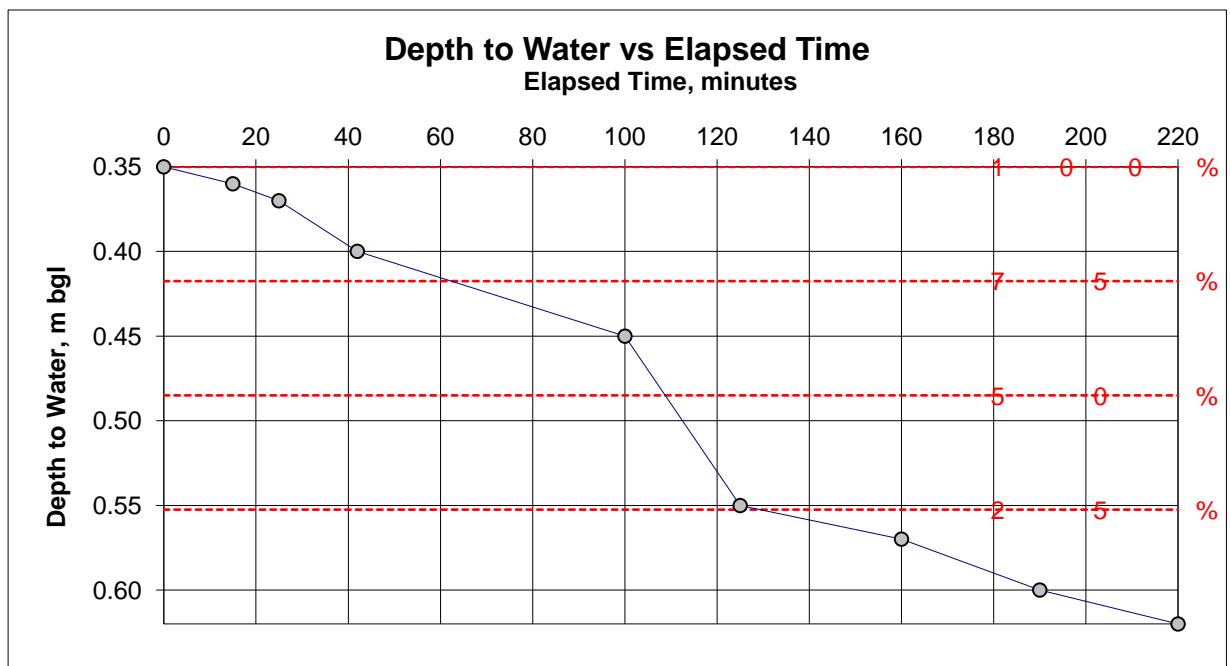
αp = Internal surface area at 50% effective depth

tp = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 61

time at 25% effective depth (mins) 130
(from graph)

Calculated Soil Infiltration Rate = 1.6E-05 m/sec





SOIL INFILTRATION TEST

Project:
Whitelands Way, Bicester KME

Project No:
M42315

Test Location: SA1010

Test No: 1

Date: 30.11.2017

Water level during test

Time mins	Depth m bgl
0	0.300
15	0.360
30	0.440
55	0.480
68	0.510
110	0.530

Trial pit dimensions

depth (m)	0.55
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

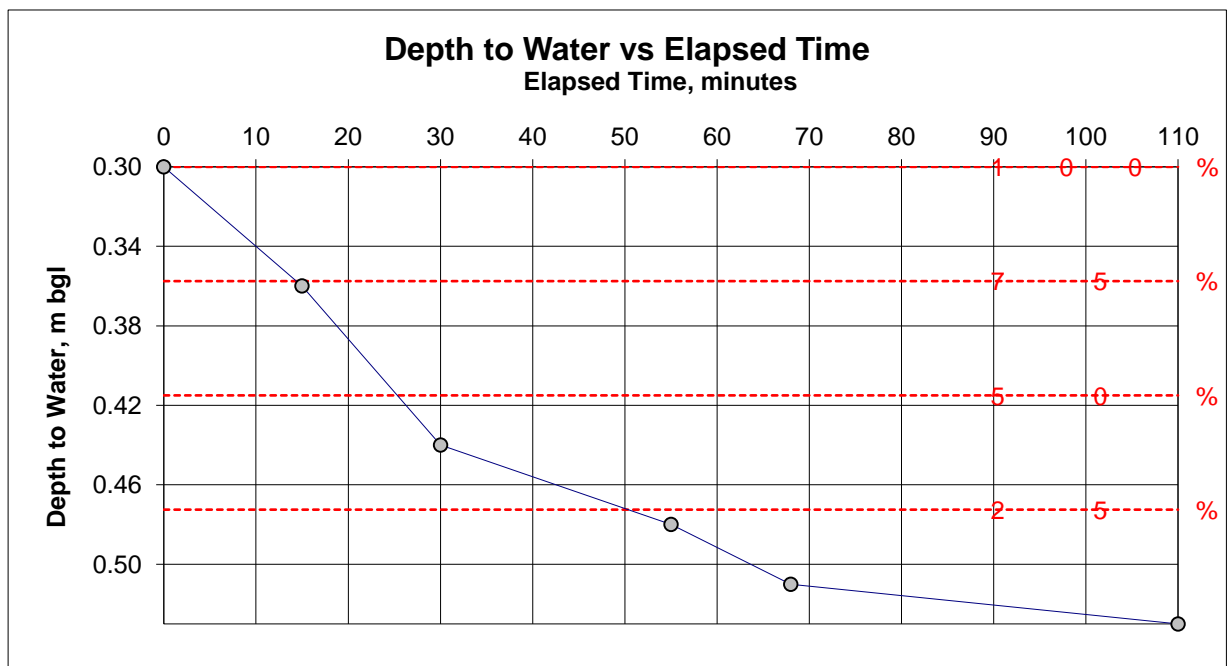
t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 15

time at 25% effective depth (mins) 51

(from graph)

Calculated Soil Infiltration Rate = 3.2E-05 m/sec





SOIL INFILTRATION TEST

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1011

Test No: 1

Date: 30.11.2017

Water level during test

Time mins	Depth m bgl
0	0.300
10	0.310
20	0.320
52	0.350
75	0.350
102	0.370
160	0.380
170	0.410

Trial pit dimensions

depth (m)	0.50
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)

30

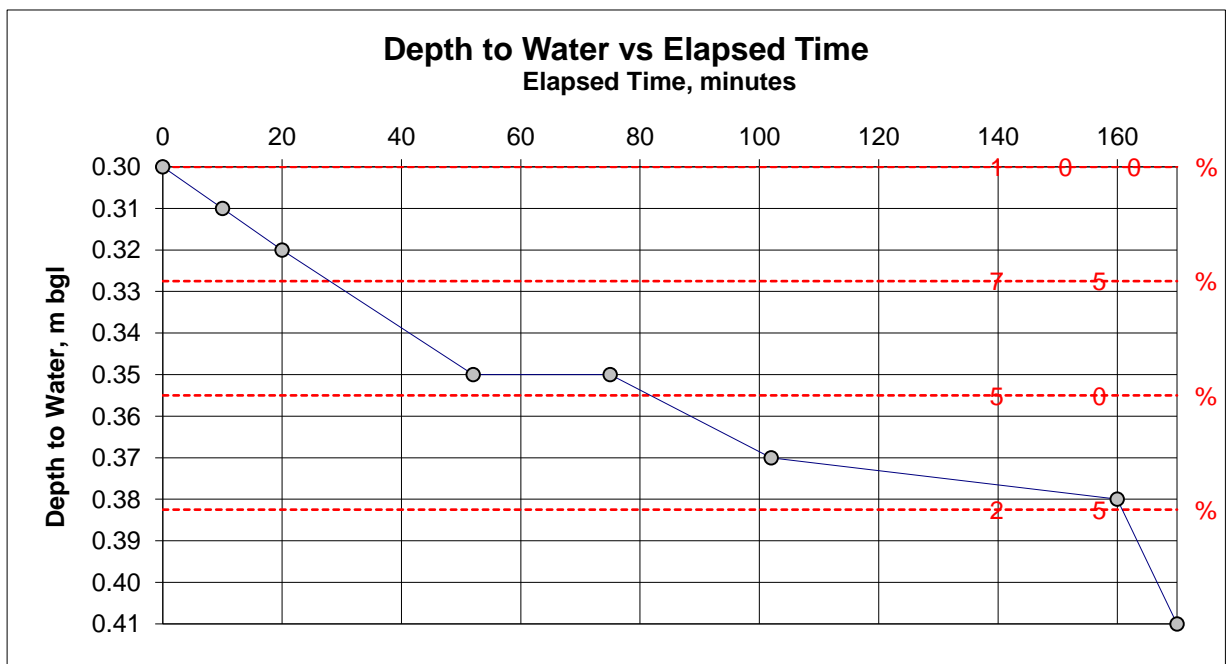
time at 25% effective depth (mins)

162

(from graph)

Calculated Soil Infiltration Rate =

4.0E-06 m/sec





SOIL INFILTRATION TEST

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1012

Test No: 1

Date: 30.11.2017

Water level during test

Time mins	Depth m bgl
0	0.250
15	0.260
30	0.270
63	0.270
100	0.280
134	0.280

Trial pit dimensions

depth (m)	0.50
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

Vp = volume of water from 75% to 25% effective depth

αp = Internal surface area at 50% effective depth

tp = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins)

12

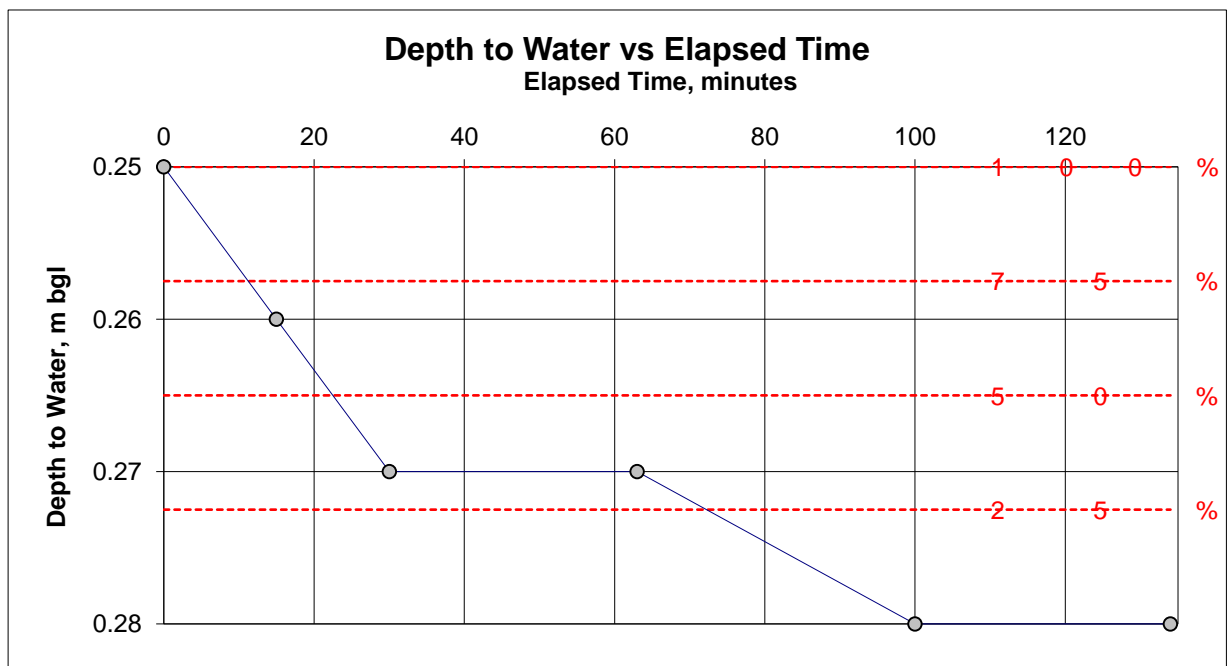
time at 25% effective depth (mins)

72

(from graph)

Calculated Soil Infiltration Rate =

1.9E-06 m/sec





SOIL INFILTRATION TEST

Project:
 Whitelands Way, Bicester KME

Project No:
 M42315

Test Location: SA1013

Test No: 1

Date: 01.12.2017

Water level during test

Time mins	Depth m bgl
0	1.000
25	1.050
52	1.100
92	1.380
135	1.390
163	1.420
305	1.480

Trial pit dimensions

depth (m)	1.75
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

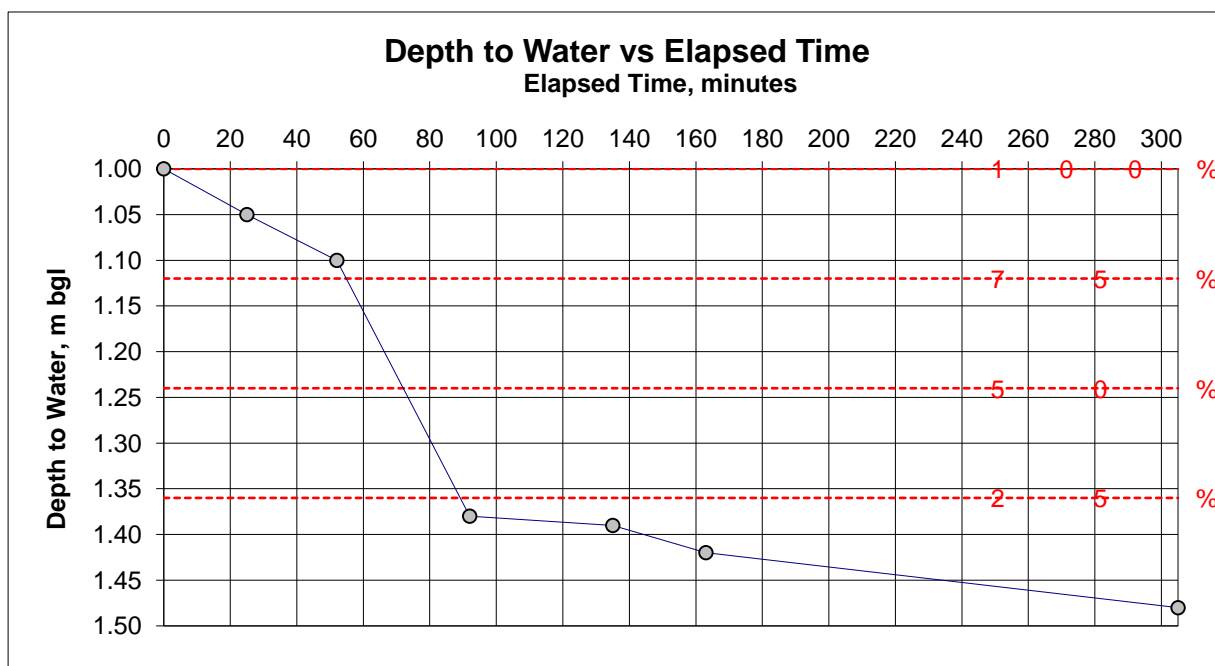
Vp = volume of water from 75% to 25% effective depth

αp = Internal surface area at 50% effective depth

tp = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 55
 time at 25% effective depth (mins) 89
 (from graph)

Calculated Soil Infiltration Rate = 3.3E-05 m/sec





SOIL INFILTRATION TEST

Project:
Whitelands Way, Bicester KME

Project No:
M42315

Test Location: SA1014

Test No: 1

Date: 01.12.2017

Water level during test

Time mins	Depth m bgl
0	0.400
30	0.410
45	0.410
90	0.410
80	0.410
120	0.410

Trial pit dimensions

depth (m)	0.60
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

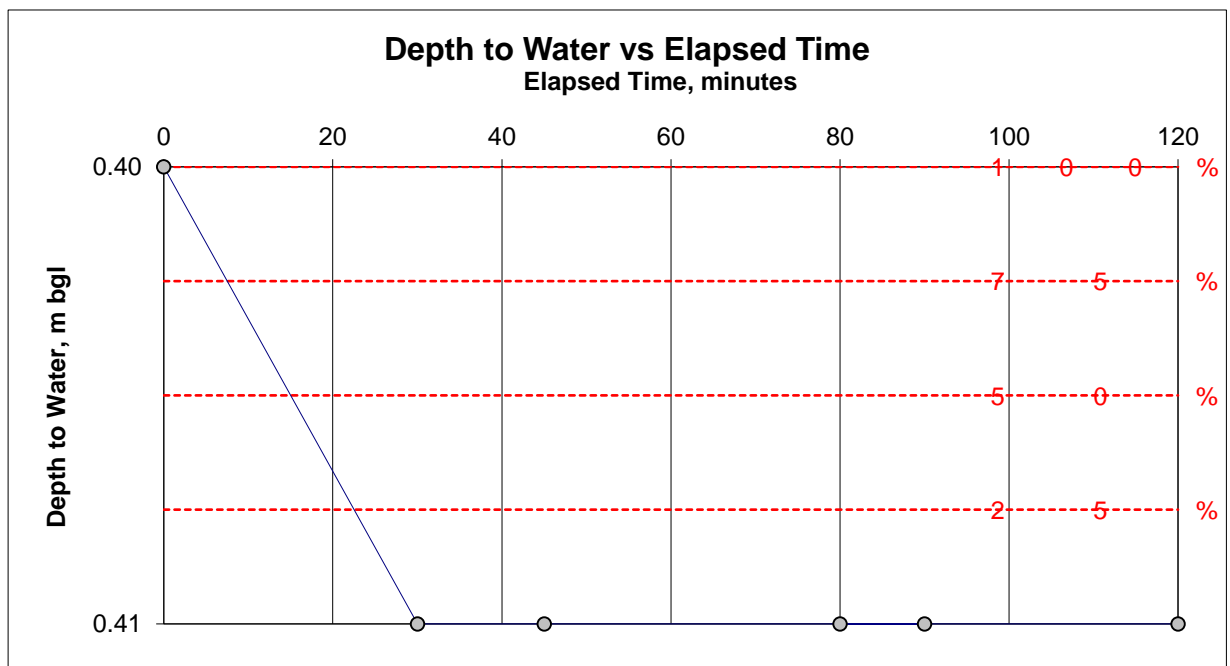
t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 8

time at 25% effective depth (mins) 23

(from graph)

Calculated Soil Infiltration Rate = 2.8E-06 m/sec





SOIL INFILTRATION TEST

Project:

Whitelands Way, Bicester KME

Project No:

M42315

Test Location: SA1015

Test No: 1

Date: 01.12.2017

Water level during test

Time mins	Depth m bgl
0	1.000
25	1.090
45	1.150
90	1.300
125	1.470
175	1.530

Trial pit dimensions

depth (m)	1.95
length (m)	2.00
width (m)	0.50

$$f = \frac{V_p}{\alpha_p \times t_p}$$

f = soil infiltration rate

V_p = volume of water from 75% to 25% effective depth

α_p = Internal surface area at 50% effective depth

t_p = time for the water level to fall from 75% to 25% effective depth

time at 75% effective depth (mins) 39

time at 25% effective depth (mins) 110
(from graph)

Calculated Soil Infiltration Rate = 1.4E-05 m/sec

