

(Consulting Engineers) Ltd

PROJECT:	New Smithy Avenue, Thurlstone	Job No. 40630	Date 09.12.16
SUBJECT:	Infiltration Test Results and Calculation of Infiltration Rates	Prepared DN	Checked AJK

Test No. SA1 - Test 1**Test Pit Dimensions**Length = **1700 mm**Plan area = **1.19 m²**Width = **700 mm**Depth = **1900 mm (Total depth)**

Approximate time to discharge water into the hole:

45 Seconds

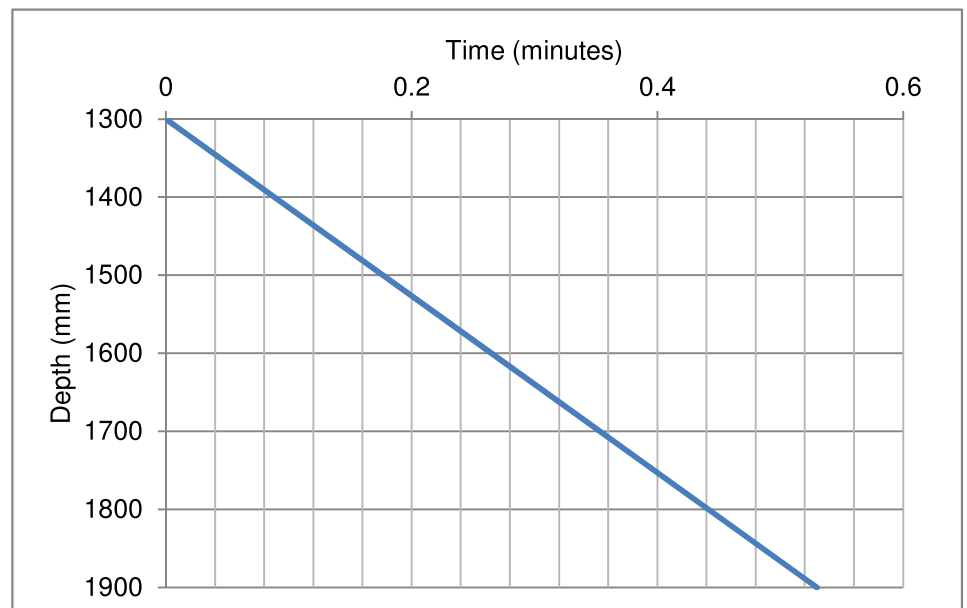
Depth to water after completion of pumping:

1300 mm**Time (min)****Depth (mm)**

0

1300

0.53

1900**Depth (m)**

0.0-0.25

0.25-0.4

0.4-0.8

0.8-1.9

Description

TOPSOIL: dark brown clayey slightly gravelly SAND with occasional sandstone gravel

Brown clayey SAND with occasional sandstone gravel

Brown/yellow gravelly SAND. Gravel and cobbles of sandstone.

SANDSTONE recovered as angular sandy gravel and cobbles

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Test No. SA1 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1300** mm Average water depth: **300** mm

Start time = **0** min

Change in water depth: **600** mm

Final parameters

Depth to water = **1900** mm

Time interval: **0.53** min

End time = **0.53** min

Effective Storage Volume of Water in the Trial Pit = **0.714** m³
 75% Effective Depth = **1450** mm from ground level
 25% Effective Depth = **1750** mm from ground level
 Time at 75% Effective Depth = **0.12** minutes
 Time at 25% Effective Depth = **0.4** minutes

V_{p75-25} = **0.36** m³

a_{p50} = **2.63** m²

t_{p75-25} = **17** sec

f = **8.1E-03** m/sec

Average Soakaway Rate = **2.2E-02** m³/sec

Average soakaway area = **2.63** m² (sides + base)

BR365 Soil Infiltration Rate = 8.1E-03 m/sec

Average Infiltration Rate = 8.5E-03 m/sec

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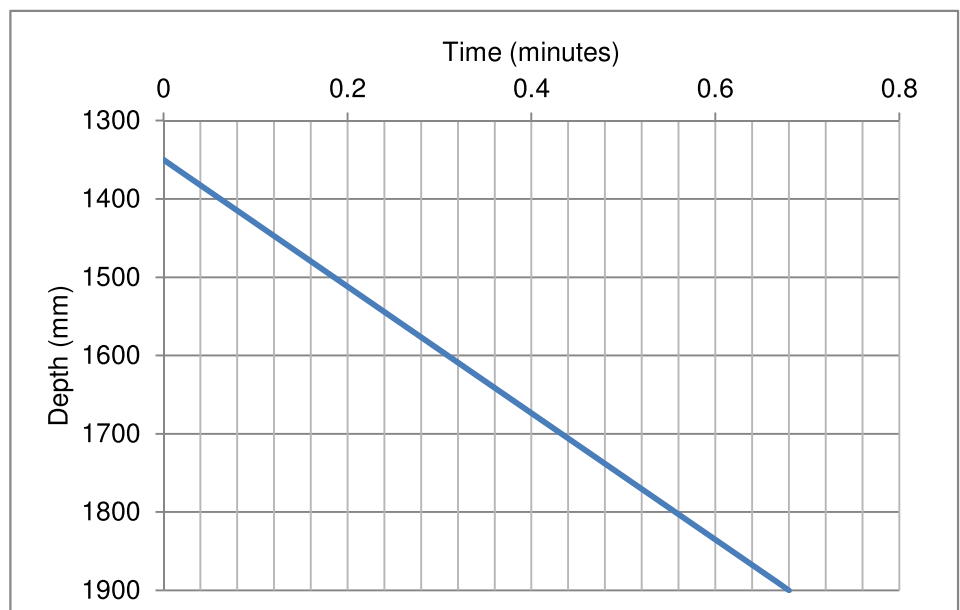
Test No. SA1 - Test 2

Test Pit Dimensions

Length = **1700** mm Plan area = **1.19** m²
 Width = **700** mm
 Depth = **1900** mm (Total depth)

Approximate time to discharge water into the hole: **35** Seconds
 Depth to water after completion of pumping: **1350** mm

Time (min)	Depth (mm)
0	1350
0.68	1900



Depth (m)	Description
0.0-0.25	TOPSOIL: dark brown clayey slightly gravelly SAND with occasional sandstone gravel
0.25-0.4	Brown clayey SAND with occasional sandstone gravel
0.4-0.8	Brown/yellow gravelly SAND. Gravel and cobbles of sandstone.
0.8-1.9	SANDSTONE recovered as angular sandy gravel and cobbles

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Test No. SA1 - Test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1350** mm Average water depth: **275** mm

Start time = **0** min

Change in water depth: **550** mm

Final parameters

Depth to water = **1900** mm

Time interval: **0.68** min

End time = **0.68** min

Effective Storage Volume of Water in the Trial Pit = **0.6545** m³
 75% Effective Depth = **1488** mm from ground level
 25% Effective Depth = **1763** mm from ground level
 Time at 75% Effective Depth = **0.16** minutes
 Time at 25% Effective Depth = **0.52** minutes

V_{p75-25} = **0.33** m³

a_{p50} = **2.51** m²

t_{p75-25} = **22** sec

f = **6.0E-03** m/sec

Average Soakaway Rate = **1.6E-02** m³/sec

Average soakaway area = **2.51** m² (sides + base)

BR365 Soil Infiltration Rate = 6.0E-03 m/sec

Average Infiltration Rate = 6.4E-03 m/sec

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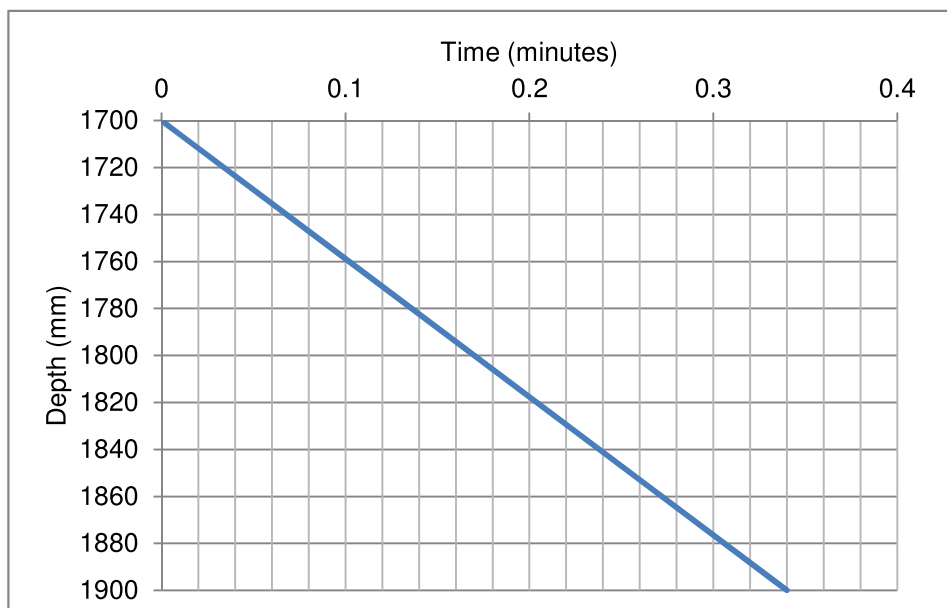
Test No. SA1 - Test 3

Test Pit Dimensions

Length = 1700 mm Plan area = 1.19 m²
 Width = 700 mm
 Depth = 1900 mm (Total depth)

Approximate time to discharge water into the hole: 60 Seconds
 Depth to water after completion of pumping: 1700 mm

Time (min)	Depth (mm)
0	1700
0.34	1900



Depth (m)	Description
0.0-0.25	TOPSOIL: dark brown clayey slightly gravelly SAND with occasional sandstone gravel
0.25-0.4	Brown clayey SAND with occasional sandstone gravel
0.4-0.8	Brown/yellow gravelly SAND. Gravel and cobbles of sandstone.
0.8-1.9	SANDSTONE recovered as angular sandy gravel and cobbles

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Test No. SA1 - Test 3

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1700** mm Average water depth: **100** mm

Start time = **0** min Change in water depth: **200** mm

Final parameters

Depth to water = **1900** mm Time interval: **0.34** min

End time = **0.34** min

Effective Storage Volume of Water in the Trial Pit = **0.238** m³
 75% Effective Depth = **1750** mm from ground level
 25% Effective Depth = **1850** mm from ground level
 Time at 75% Effective Depth = **0.09** minutes
 Time at 25% Effective Depth = **0.26** minutes

V_{p75-25} = **0.12** m³

a_{p50} = **1.67** m²

t_{p75-25} = **10** sec

f = **7.0E-03** m/sec

Average Soakaway Rate = **1.2E-02** m³/sec

Average soakaway area = **1.67** m² (sides + base)

BR365 Soil Infiltration Rate = 7.0E-03 m/sec

Average Infiltration Rate = 7.0E-03 m/sec

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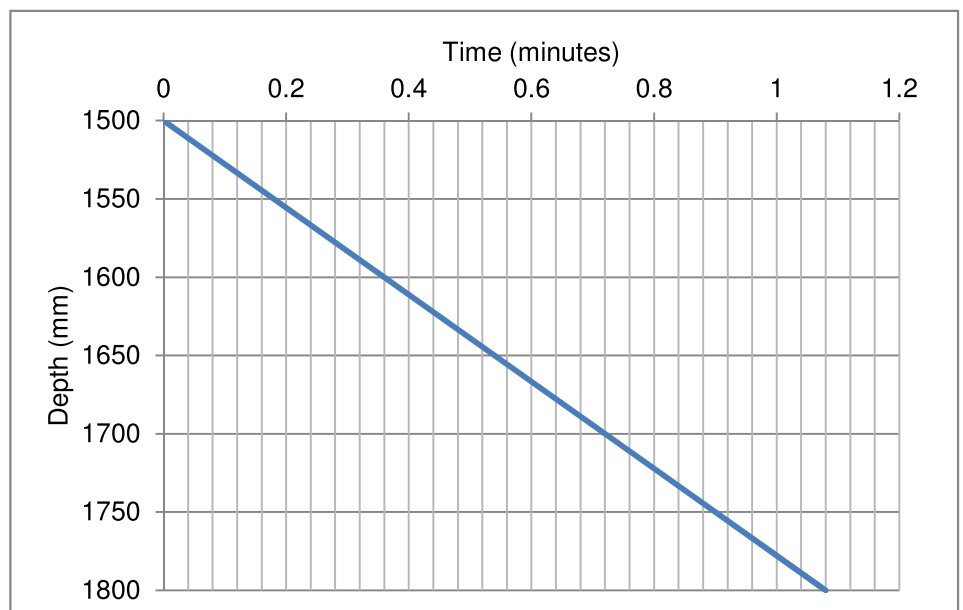
Test No. SA2 - Test 1

Test Pit Dimensions

Length = 1800 mm Plan area = 1.26 m²
Width = 700 mm
Depth = 1800 mm (Total depth)

Approximate time to discharge water into the hole: 46 Seconds
Depth to water after completion of pumping: 1500 mm

Time (min)	Depth (mm)
0	1500
1.08	1800



Depth (m)	Description
0-0.3	TOPSOIL: dark brown slightly clayey sand with occasional gravel of sandstone
0.3-0.7	Brown slightly clayey SAND with sandstone gravel
0.7-1.8	Yellow sandy GRAVEL with high cobble content of angular-subangular moderately strong sandstone

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Test No. SA2 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1500** mm Average water depth: **150** mm

Start time = **0** min Change in water depth: **300** mm

Final parameters

Depth to water = **1800** mm Time interval: **1.08** min

End time = **1.08** min

Effective Storage Volume of Water in the Trial Pit = **0.378** m³
 75% Effective Depth = **1575** mm from ground level
 25% Effective Depth = **1725** mm from ground level
 Time at 75% Effective Depth = **0.28** minutes
 Time at 25% Effective Depth = **0.8** minutes

V_{p75-25} = **0.19** m³

a_{p50} = **2.01** m²

t_{p75-25} = **31** sec

f = **3.0E-03** m/sec

Average Soakaway Rate = **5.8E-03** m³/sec

Average soakaway area = **2.01** m² (sides + base)

BR365 Soil Infiltration Rate = 3.0E-03 m/sec

Average Infiltration Rate = 2.9E-03 m/sec

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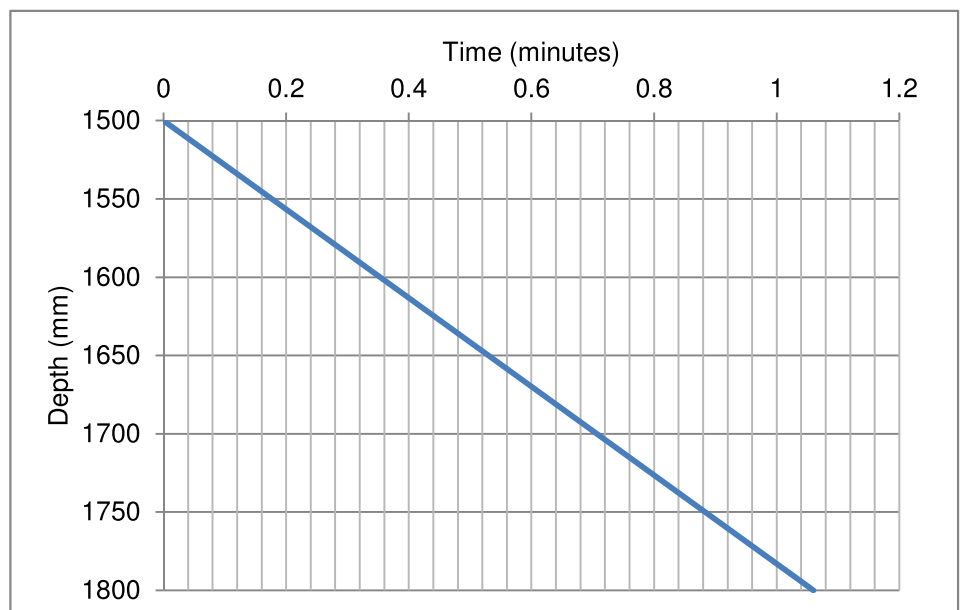
Test No. SA2 - Test 2

Test Pit Dimensions

Length = 1800 mm Plan area = 1.26 m²
 Width = 700 mm
 Depth = 1800 mm (Total depth)

Approximate time to discharge water into the hole: 45 Seconds
 Depth to water after completion of pumping: 1500 mm

Time (min)	Depth (mm)
0	1500
1.06	1800



Depth (m)	Description
0-0.3	TOPSOIL: dark brown slightly clayey sand with occasional gravel of sandstone
0.3-0.7	Brown slightly clayey SAND with sandstone gravel
0.7-1.8	Yellow sandy GRAVEL with high cobble content of angular-subangular moderately strong sandstone

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Test No. SA2 - Test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1500** mm Average water depth: **150** mm

Start time = **0** min Change in water depth: **300** mm

Final parameters

Depth to water = **1800** mm Time interval: **1.06** min

End time = **1.06** min

Effective Storage Volume of Water in the Trial Pit = **0.378** m³
 75% Effective Depth = **1575** mm from ground level
 25% Effective Depth = **1725** mm from ground level
 Time at 75% Effective Depth = **0.28** minutes
 Time at 25% Effective Depth = **0.8** minutes

V_{p75-25} = **0.19** m³

a_{p50} = **2.01** m²

t_{p75-25} = **31** sec

f = **3.0E-03** m/sec

Average Soakaway Rate = **5.9E-03** m³/sec

Average soakaway area = **2.01** m² (sides + base)

BR365 Soil Infiltration Rate = 3.0E-03 m/sec

Average Infiltration Rate = 3.0E-03 m/sec

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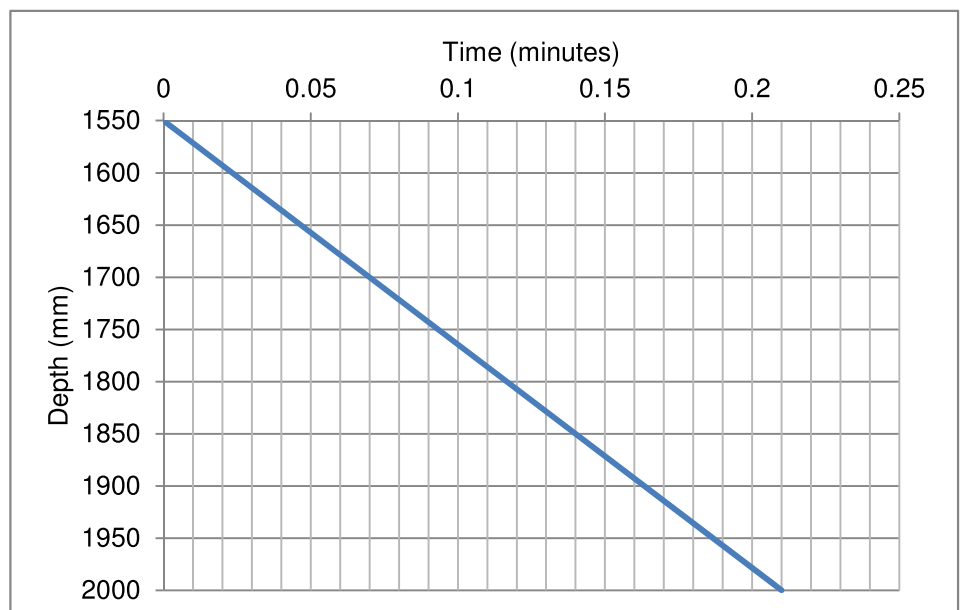
Test No. SA3 - Test 1

Test Pit Dimensions

Length = **1800** mm Plan area = **1.17** m²
 Width = **650** mm
 Depth = **2000** mm (Total depth)

Approximate time to discharge water into the hole: **36** Seconds
 Depth to water after completion of pumping: **1550** mm

Time (min)	Depth (mm)
0	1550
0.21	2000



Depth (m)	Description
0-0.3	TOPSOIL: Dark brown slightly clayey sand with occasional gravel of sandstone
0.3-0.5	Brown slightly clayey slightly gravelly SAND with occasional sandstone gravel
0.5-2.0	Yellow sandy gravel with medium cobble content. Gravel and cobbles are sub-angular of moderately strong sandstone

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Test No. SA3 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1550 mm** Average water depth: **225 mm**
 Start time = **0 min** Change in water depth: **450 mm**

Final parameters

Depth to water = **2000 mm** Time interval: **0.21 min**
 End time = **0.21 min**

Effective Storage Volume of Water in the Trial Pit = **0.5265 m³**
 75% Effective Depth = **1663 mm** from ground level
 25% Effective Depth = **1888 mm** from ground level
 Time at 75% Effective Depth = **0.055 minutes**
 Time at 25% Effective Depth = **0.155 minutes**

V_{p75-25} = **0.26 m³**
 a_{p50} = **2.27 m²**
 t_{p75-25} = **6 sec**
 f = **1.9E-02 m/sec**

Average Soakaway Rate = **4.2E-02 m³/sec**
 Average soakaway area = **2.27 m² (sides + base)**

BR365 Soil Infiltration Rate = 1.9E-02 m/sec
Average Infiltration Rate = 1.8E-02 m/sec

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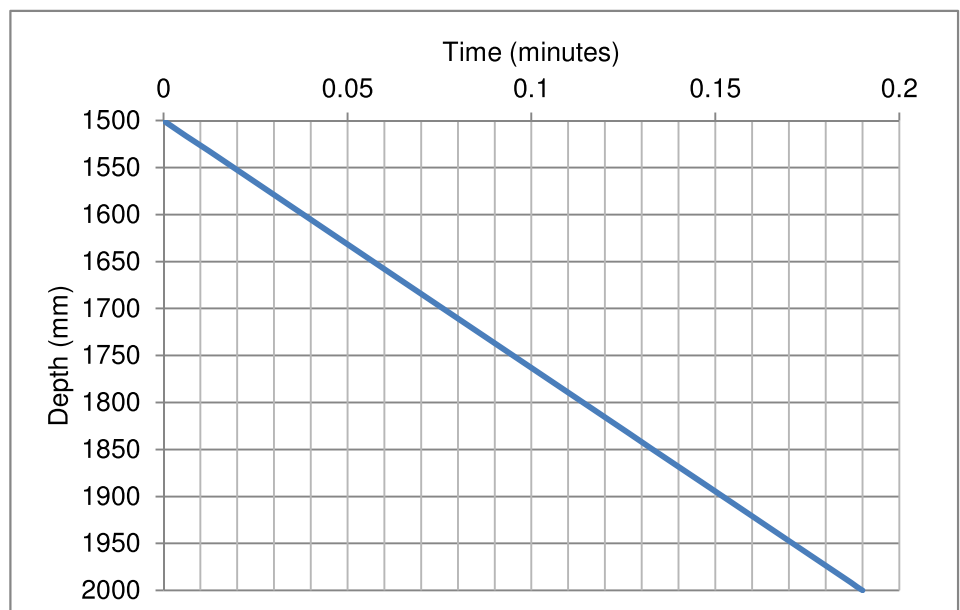
Test No. SA3 - Test 2

Test Pit Dimensions

Length = **1800** mm Plan area = **1.17** m²
 Width = **650** mm
 Depth = **2000** mm (Total depth)

Approximate time to discharge water into the hole: **31** Seconds
 Depth to water after completion of pumping: **1550** mm

Time (min)	Depth (mm)
0	1500
0.19	2000



Depth (m)	Description
0-0.3	TOPSOIL: Dark brown slightly clayey sand with occasional gravel of sandstone
0.3-0.5	Brown slightly clayey slightly gravelly SAND with occasional sandstone gravel
0.5-2.0	Yellow sandy gravel with medium cobble content. Gravel and cobbles are sub-angular of moderately strong sandstone

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Test No. SA3 - Test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1500 mm** Average water depth: **250 mm**

Start time = **0 min**

Change in water depth: **500 mm**

Final parameters

Depth to water = **2000 mm**

Time interval: **0.19 min**

End time = **0.19 min**

Effective Storage Volume of Water in the Trial Pit = **0.585 m³**
 75% Effective Depth = **1625 mm** from ground level
 25% Effective Depth = **1875 mm** from ground level
 Time at 75% Effective Depth = **0.05 minutes**
 Time at 25% Effective Depth = **0.14 minutes**

V_{p75-25} = **0.29 m³**

a_{p50} = **2.40 m²**

t_{p75-25} = **5 sec**

f = **2.3E-02 m/sec**

Average Soakaway Rate = **5.1E-02 m³/sec**

Average soakaway area = **2.40 m² (sides + base)**

BR365 Soil Infiltration Rate = 2.3E-02 m/sec

Average Infiltration Rate = 2.1E-02 m/sec

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Test No.	SA4 - Test 1
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Test Pit Dimensions

Length = **1600** mm

Plan area = **1.04 m²**

Width = **650** mm

Depth = **2100** mm (Total depth)

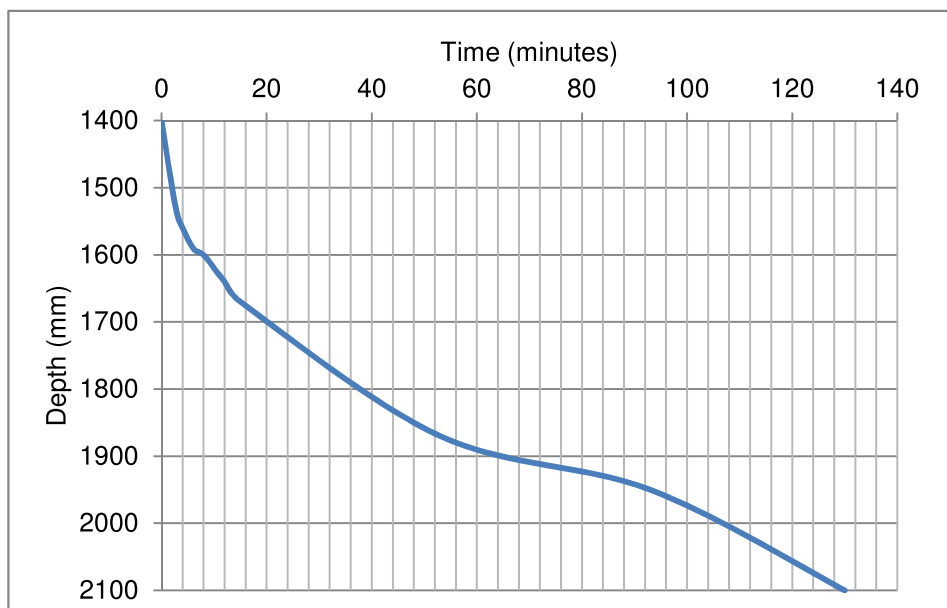
Approximate time to discharge water into the hole:

22 Seconds

Depth to water after completion of pumping:

1400 mm

Time (min)	Depth (mm)
0	1400
1	1450
2	1500
3	1540
4	1560
6	1590
8	1600
10	1620
12	1640
15	1670
53	1870
93	1950
130	2100



Depth (m)	Description
0-0.2	TOPSOIL: Dark brown slightly clayey sand with occasional gravel of sandstone.
0.2-0.3	Brown slightly clayey SAND with occasional gravel of sandstone.
0.3-2.1	Yellow slightly clayey gravelly SAND with medium cobble content.

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Test No. SA4 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1400 mm** Average water depth: **350 mm**

Start time = **0 min**

Change in water depth: **700 mm**

Final parameters

Depth to water = **2100 mm**

Time interval: **130 min**

End time = **130 min**

Effective Storage Volume of Water in the Trial Pit = **0.728 m³**
 75% Effective Depth = **1575 mm** from ground level
 25% Effective Depth = **1925 mm** from ground level
 Time at 75% Effective Depth = **5 minutes**
 Time at 25% Effective Depth = **80 minutes**

V_{p75-25} = **0.36 m³**

a_{p50} = **2.62 m²**

t_{p75-25} = **4500 sec**

f = **3.1E-05 m/sec**

Average Soakaway Rate = **9.3E-05 m³/sec**

Average soakaway area = **2.62 m² (sides + base)**

BR365 Soil Infiltration Rate = 3.1E-05 m/sec

Average Infiltration Rate = 3.6E-05 m/sec

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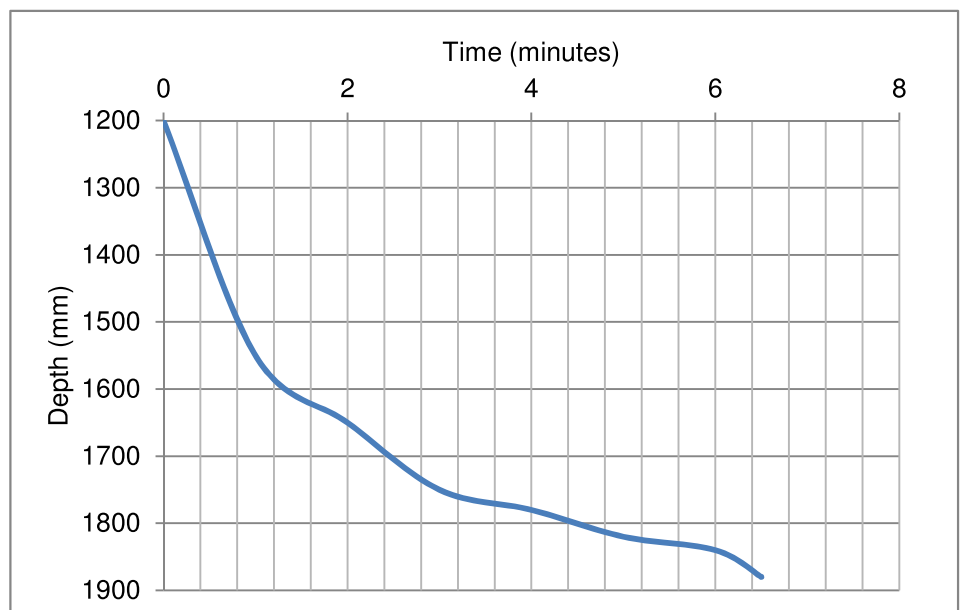
Test No. SA5 - Test 1

Test Pit Dimensions

Length = **1300 mm** Plan area = **0.845 m²**
 Width = **650 mm**
 Depth = **1880 mm** (Total depth)

Approximate time to discharge water into the hole: **27 Seconds**
 Depth to water after completion of pumping: **1200 mm**

Time (min)	Depth (mm)
0	1200
1	1550
2	1650
3	1750
4	1780
5	1820
6	1840
6.5	1880



Depth (m)	Description
0-0.25	TOPSOIL: Dark brown slightly clayey SAND with occasional sandstone gravel.
0.25-0.7	MADE GROUND: Brown gravelly SAND with medium cobble content. Gravel and cobbles of subangular-subrounded sandstone.
0.7-1.8	Yellow gravelly SAND becoming yellow sandy gravel and cobbles of sandstone.

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Test No. SA5 - Test 1

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1200 mm** Average water depth: **340 mm**

Start time = **0 min**

Change in water depth: **680 mm**

Final parameters

Depth to water = **1880 mm**

Time interval: **6.5 min**

End time = **6.5 min**

Effective Storage Volume of Water in the Trial Pit = **0.5746 m³**
 75% Effective Depth = **1370 mm** from ground level
 25% Effective Depth = **1710 mm** from ground level
 Time at 75% Effective Depth = **0.4 minutes**
 Time at 25% Effective Depth = **2.8 minutes**

V_{p75-25} = **0.29 m³**

a_{p50} = **2.17 m²**

t_{p75-25} = **144 sec**

f = **9.2E-04 m/sec**

Average Soakaway Rate = **1.5E-03 m³/sec**

Average soakaway area = **2.17 m² (sides + base)**

BR365 Soil Infiltration Rate = 9.2E-04 m/sec

Average Infiltration Rate = 6.8E-04 m/sec

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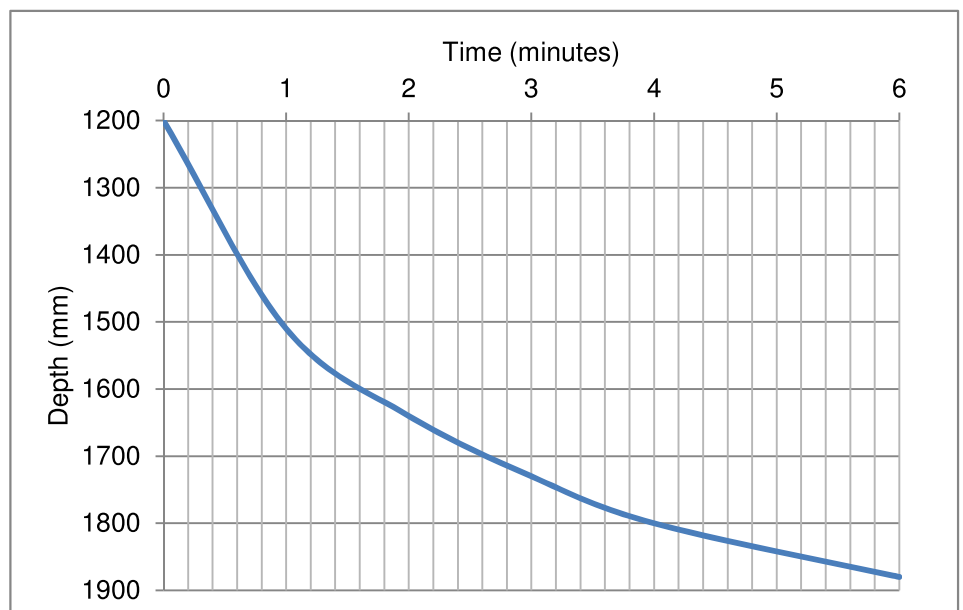
Test No. SA5 - Test 2

Test Pit Dimensions

Length = **1300** mm Plan area = **0.845** m²
 Width = **650** mm
 Depth = **1880** mm (Total depth)

Approximate time to discharge water into the hole: **20** Seconds
 Depth to water after completion of pumping: **1200** mm

Time (min)	Depth (mm)
0	1200
1	1510
2	1640
3	1730
4	1800
6	1880



Depth (m)	Description
0-0.25	TOPSOIL: Dark brown slightly clayey SAND with occasional sandstone gravel.
0.25-0.7	MADE GROUND: Brown gravelly SAND with medium cobble content. Gravel and cobbles of subangular-subrounded sandstone.
0.7-1.8	Yellow gravelly SAND becoming yellow sandy gravel and cobbles of sandstone.

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Test No. SA5 - Test 2

Soil Infiltration Rate in Accordance with BR365

$$f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where: V_{p75-25} is the effective storage volume of water in the trial pit between 75% and 25% effective depth;

a_{p50} is the internal surface area of the trial pit up to 50% effective depth and including the base area

t_{p75-25} is the time for the water level to fall from 75% to 25% effective depth

Initial parameters

Depth to water = **1200 mm** Average water depth: **340 mm**

Start time = **0 min**

Change in water depth: **680 mm**

Final parameters

Depth to water = **1880 mm**

Time interval: **6 min**

End time = **6 min**

Effective Storage Volume of Water in the Trial Pit = **0.5746 m³**
 75% Effective Depth = **1370 mm** from ground level
 25% Effective Depth = **1710 mm** from ground level
 Time at 75% Effective Depth = **0.5 minutes**
 Time at 25% Effective Depth = **2.8 minutes**

V_{p75-25} = **0.29 m³**

a_{p50} = **2.17 m²**

t_{p75-25} = **138 sec**

f = **9.6E-04 m/sec**

Average Soakaway Rate = **1.6E-03 m³/sec**

Average soakaway area = **2.17 m² (sides + base)**

BR365 Soil Infiltration Rate = 9.6E-04 m/sec

Average Infiltration Rate = 7.4E-04 m/sec