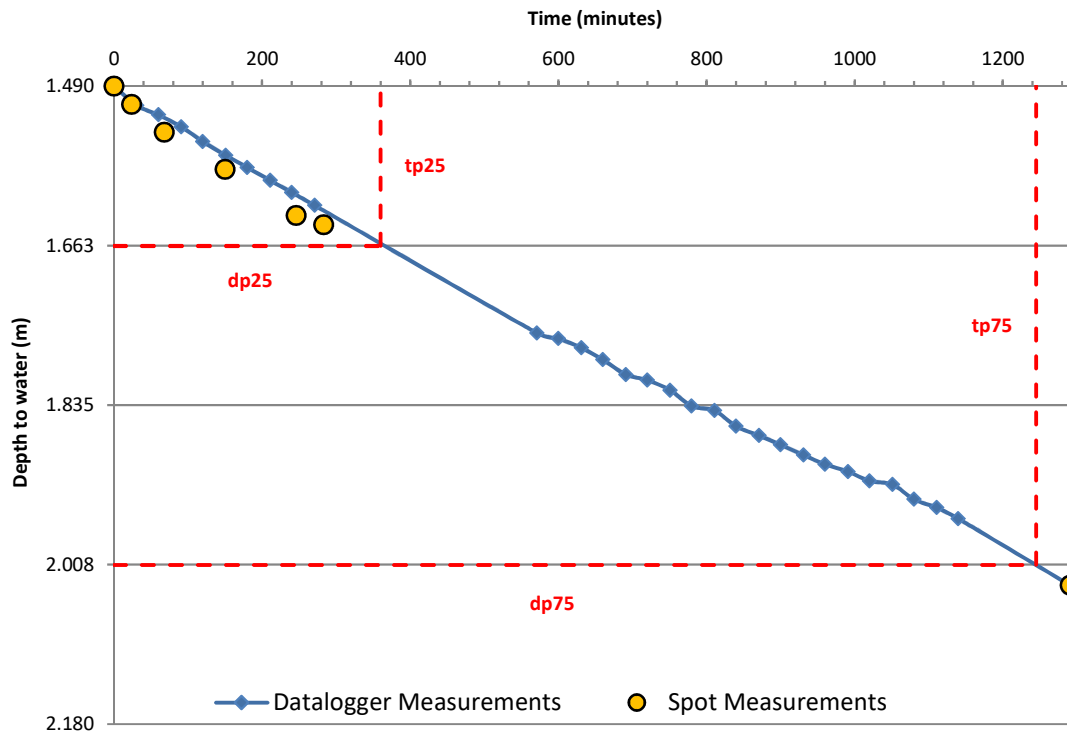


**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	1.49		
24	1.51		
68	1.54		
150	1.58		
246	1.63		
283	1.64		
1291	2.03		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$

$V_{p75-25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
= **1.19494m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
= **0.286m<sup>2</sup>**

$t_{p75} - t_{p25}$  = the time for the water level to fall from 75% to 25% effective depth  
= **885 (minutes)**  
= **53100 (seconds)**

**$f = 7.87E-05 \text{ m/s}$**

**Notes**

Approximately 5000l water added

**Geology unit under test**

-

**Depth of soakaway at start of test (m)**

2.18

**Title**

Soil infiltration test (following principles of BRE Digest 365 2016)

**Diameter**

2.1m

**Co-ordinates**

-

**Ground level**

N/A

**Soakaway no.**

SA01

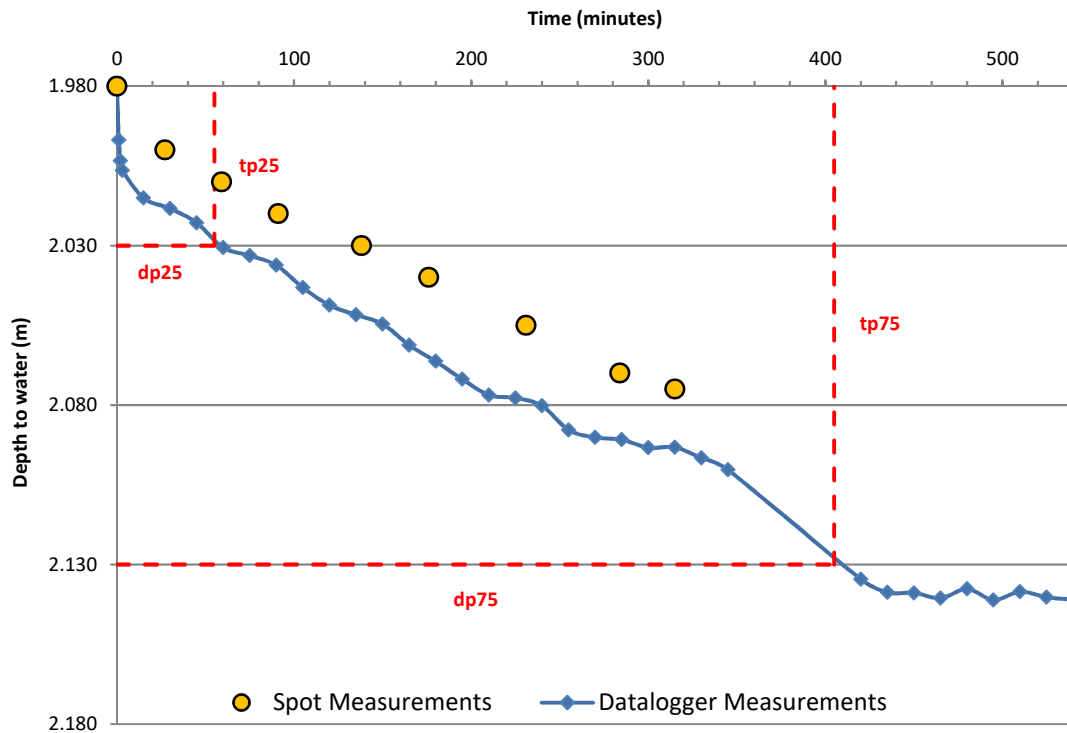
**Cycle number**

1

**Start date of test**

23/05/2019

**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	1.98		
27	2		
59	2.01		
91	2.02		
138	2.03		
176	2.04		
231	2.055		
284	2.07		
315	2.075		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75 - 25}}{a_{p50} \times t_{p75 - 25}}$

$V_{p75 - 25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
= **0.34636m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
= **0.286m<sup>2</sup>**

$t_{p75} - t_{p25}$  = the time for the water level to fall from 75% to 25% effective depth  
= **350 (minutes)**  
= **21000 (seconds)**

**$f = 5.77E-05 \text{ m/s}$**

**Notes**

Datalogger results out of sync - relative infiltration rate consistent. Approximately 500l added.

**Geology unit under test**

-

**Depth of soakaway at start of test (m)**

2.18

**Title**

Soil infiltration test (following principles of BRE Digest 365 2016)

**Diameter**

2.1m

**Co-ordinates**

-

**Ground level**

N/A

**Soakaway no.**

SA01

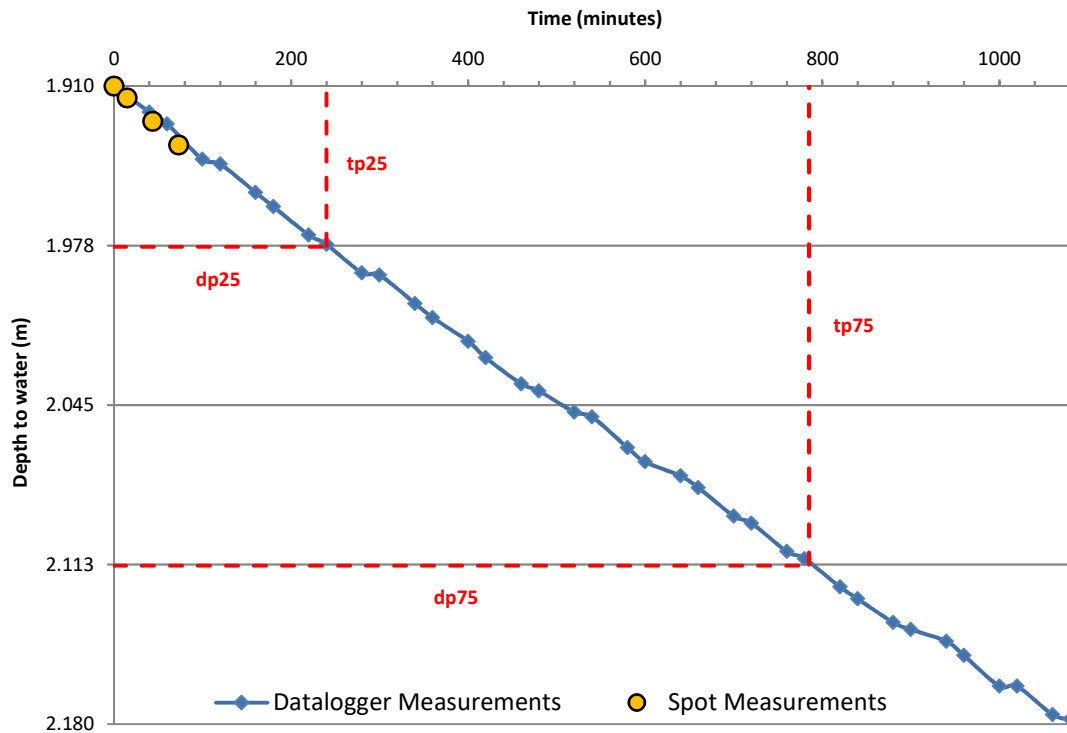
**Cycle number**

2

**Start date of test**

24/05/2019

**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	1.91		
15	1.915		
44	1.925		
73	1.935		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$

$V_{p75-25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
 = **0.46759m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
 = **0.286m<sup>2</sup>**

$t_{p75} - t_{p25}$  = the time for the water level to fall from 75% to 25% effective depth  
 = **545 (minutes)**  
 = **32700 (seconds)**

**$f = 5.00E-05$  m/s**

**Notes**

Approximately 4200l water added.

**Geology unit under test**

-

**Depth of soakaway at start of test (m)**

2.18

**Title**

Soil infiltration test (following principles of BRE Digest 365 2016)

**Diameter**

2.1m

**Co-ordinates**

-

**Ground level**

N/A

**Soakaway no.**

SA01

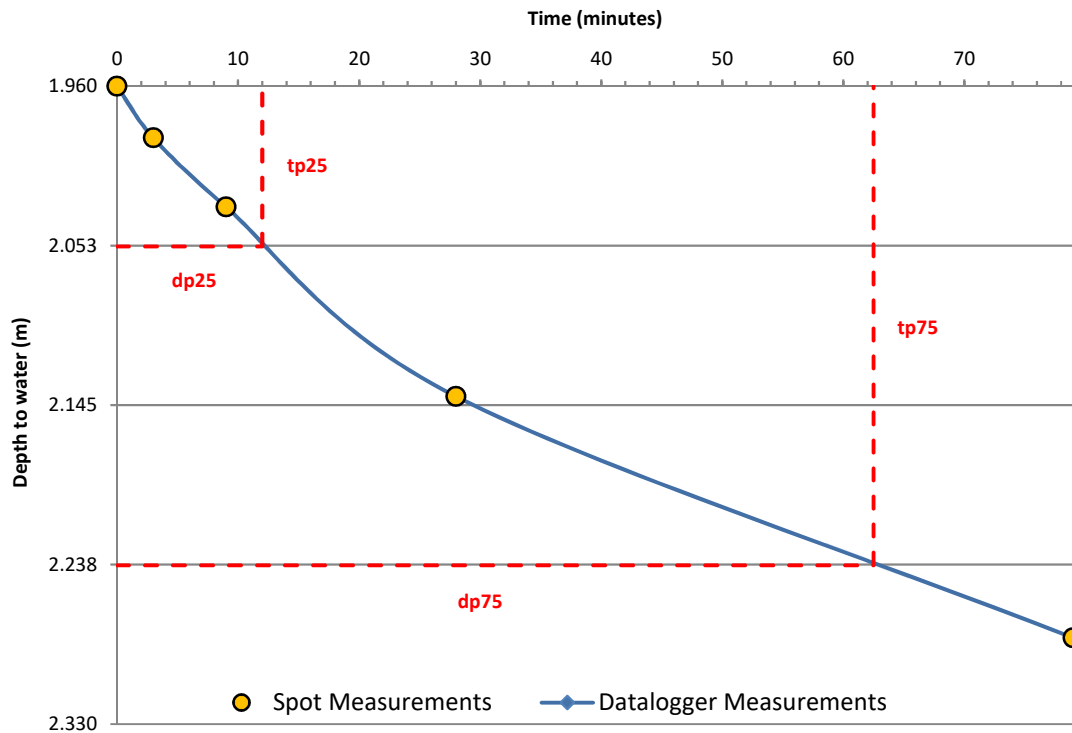
**Cycle number**

3

**Start date of test**

29/05/2019

**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	1.96		
3	1.99		
9	2.03		
28	2.14		
79	2.28		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75 - 25}}{a_{p50} \times t_{p75 - 25}}$

$V_{p75 - 25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
= **0.64077m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
= **0.286m<sup>2</sup>**

$t_{p75} - t_{p25}$  = the time for the water level to fall from 75% to 25% effective depth  
= **50.5 (minutes)**  
= **3030 (seconds)**

**$f = 7.39E-04$  m/s**

**Notes**

Based on spot measurements only due to rate of infiltration. Approximately 5000l water added.

**Geology unit under test**

-

**Depth of soakaway at start of test (m)**

2.33

**Title**

Soil infiltration test (following principles of BRE Digest 365 2016)

**Diameter**

2.1m

**Co-ordinates**

-

**Ground level**

N/A

**Soakaway no.**

SA02

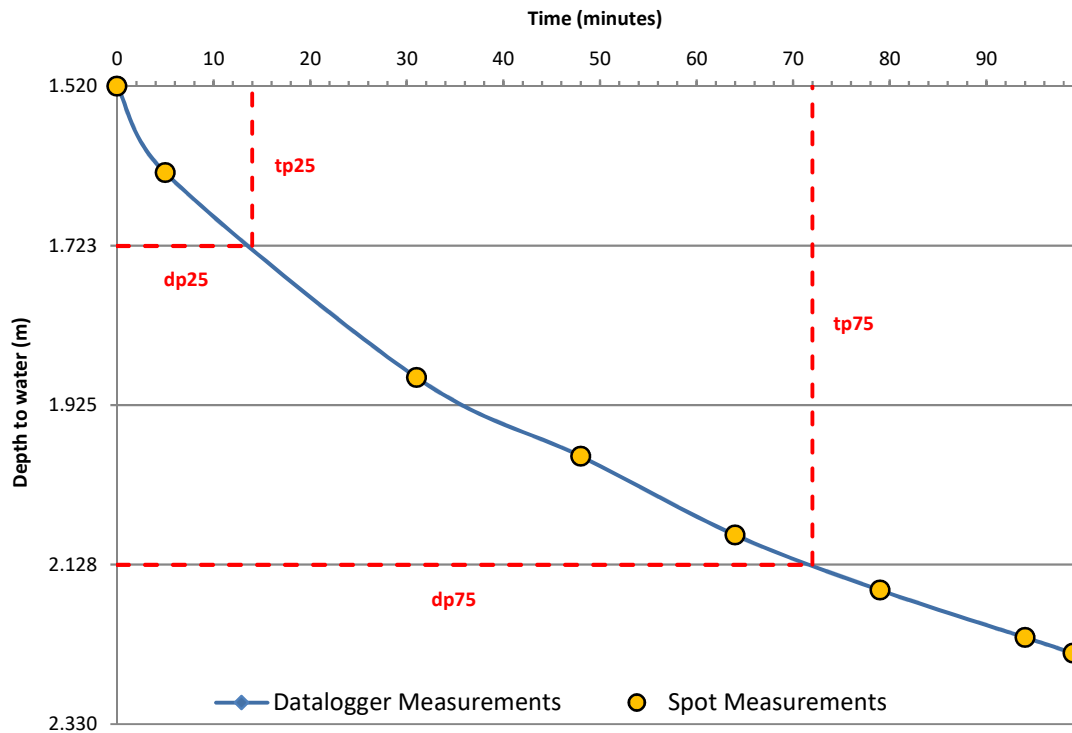
**Cycle number**

1

**Start date of test**

23/05/2019

**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	1.52		
5	1.63		
31	1.89		
48	1.99		
64	2.09		
79	2.16		
94	2.22		
99	2.24		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$

$V_{p75-25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
= **1.40276m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
= **0.286m<sup>2</sup>**

$t_{p75} - t_{p25}$  = the time for the water level to fall from 75% to 25% effective depth  
= **58 (minutes)**  
= **3480 (seconds)**

**$f = 1.41E-03 \text{ m/s}$**

**Notes**

Based on spot measurements only due to rate of infiltration. Approximately 4000l water added.

**Geology unit under test**

-

**Depth of soakaway at start of test (m)**

2.33

**Title**

Soil infiltration test (following principles of BRE Digest 365 2016)

**Diameter**

2.1m

**Co-ordinates**

-

**Ground level**

N/A

**Soakaway no.**

SA02

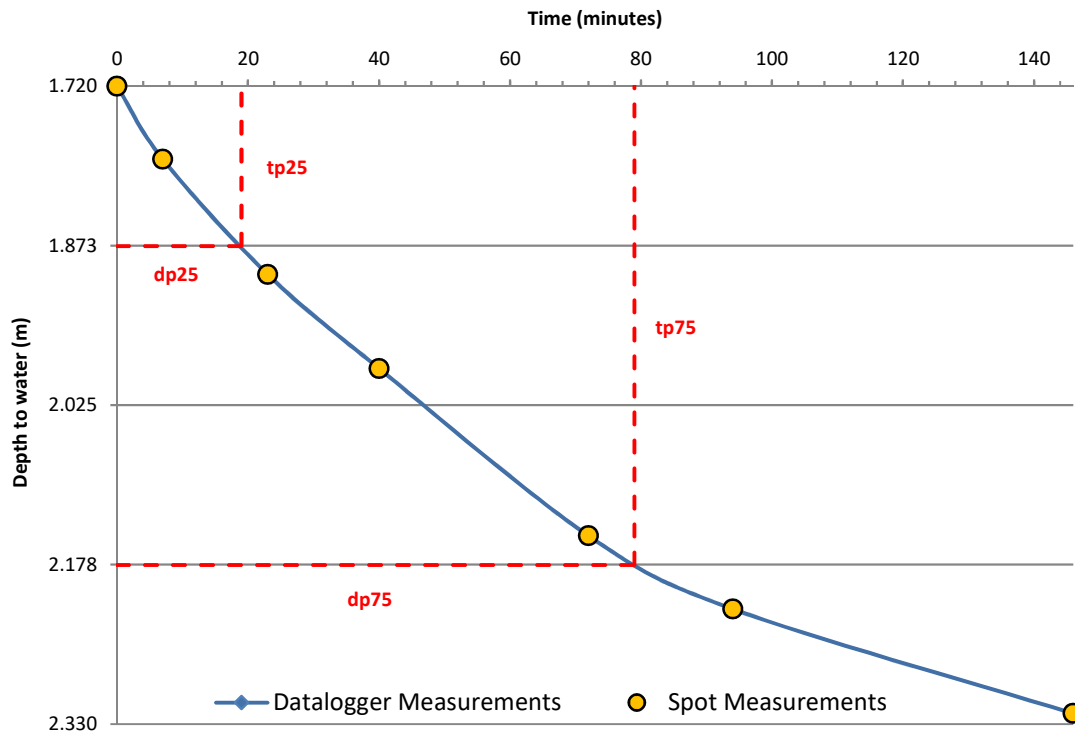
**Cycle number**

2

**Start date of test**

24/05/2019

**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	1.72		
7	1.79		
23	1.9		
40	1.99		
72	2.15		
94	2.22		
146	2.32		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$

$V_{p75-25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
= **1.0564m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
= **0.286m<sup>2</sup>**

$t_{p75} - t_{p25}$  = the time for the water level to fall from 75% to 25% effective depth  
= **60 (minutes)**  
= **3600 (seconds)**

**$f = 1.03E-03 \text{ m/s}$**

**Notes**

Based on spot measurements only due to rate of infiltration. Approximately 6500l water added.

**Geology unit under test**

-

**Depth of soakaway at start of test (m)**

2.33

**Title**

Soil infiltration test (following principles of BRE Digest 365 2016)

**Diameter**

2.1m

**Co-ordinates**

-

**Ground level**

N/A

**Soakaway no.**

SA02

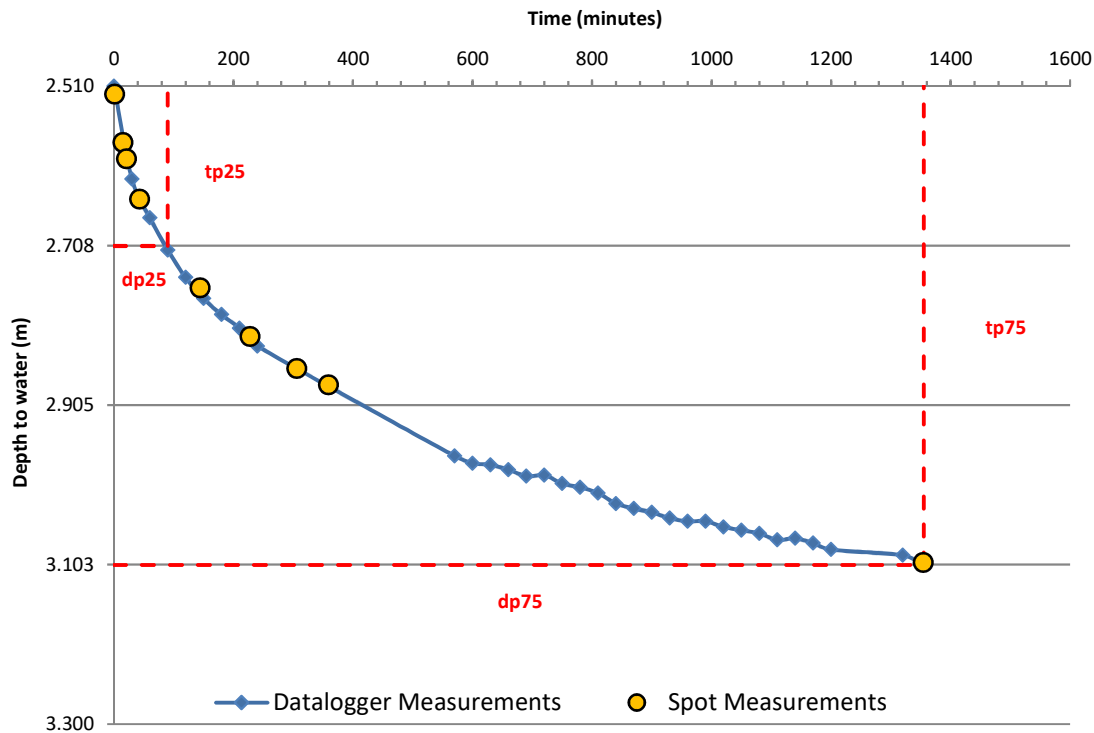
**Cycle number**

3

**Start date of test**

24/05/2019

**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	2.5		
1	2.52		
15	2.58		
21	2.6		
43	2.65		
144	2.76		
228	2.82		
306	2.86		
359	2.88		
1354	3.1		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$

$V_{p75-25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
= **1.36812m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
= **0.286m<sup>2</sup>**

$t_{p75} - t_{p25}$  = the time for the water level to fall from 75% to 25% effective depth  
= **1265 (minutes)**  
= **75900 (seconds)**

**$f = 6.30E-05 \text{ m/s}$**

**Notes**

Approximately 5000l water added.

**Geology unit under test**

-

**Depth of soakaway at start of test (m)**

3.3

**Title**

Soil infiltration test (following principles of BRE Digest 365 2016)

**Diameter**

2.1m

**Co-ordinates**

-

**Ground level**

N/A

**Soakaway no.**

SA03

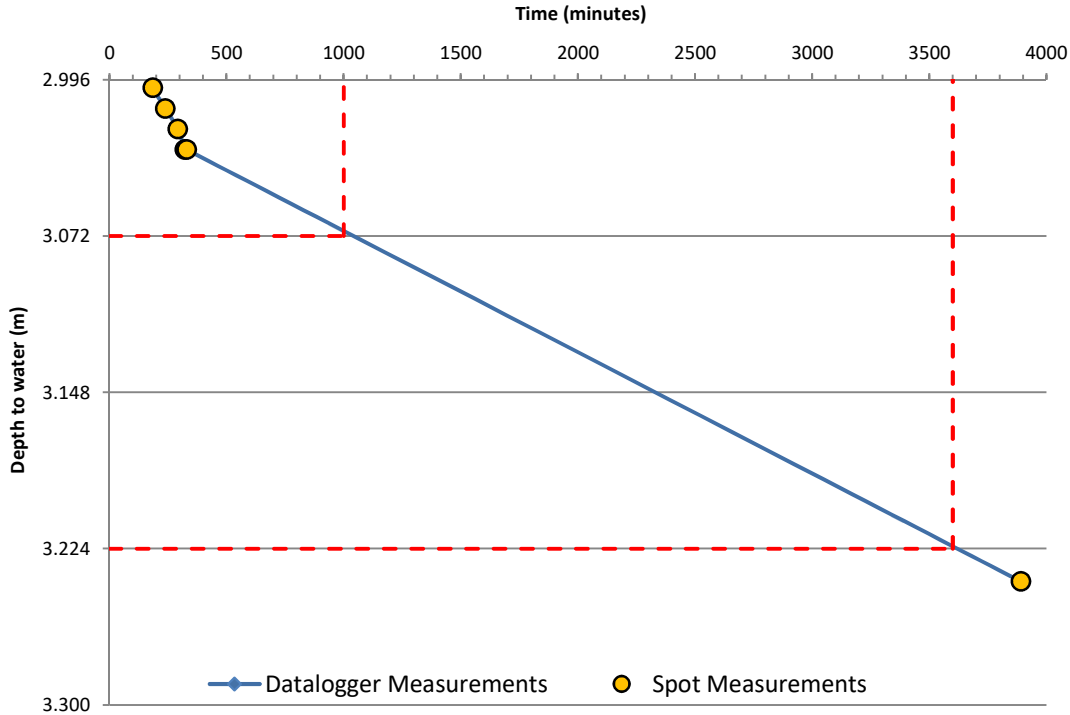
**Cycle number**

1

**Start date of test**

23/05/2019

**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	2.94		
25	2.96		
67	2.97		
99	2.98		
146	2.99		
185	3		
239	3.01		
292	3.02		
322	3.03		
330	3.03		
3891	3.24		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$

$V_{p75-25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
= **0.52647m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
= **0.286m<sup>2</sup>**

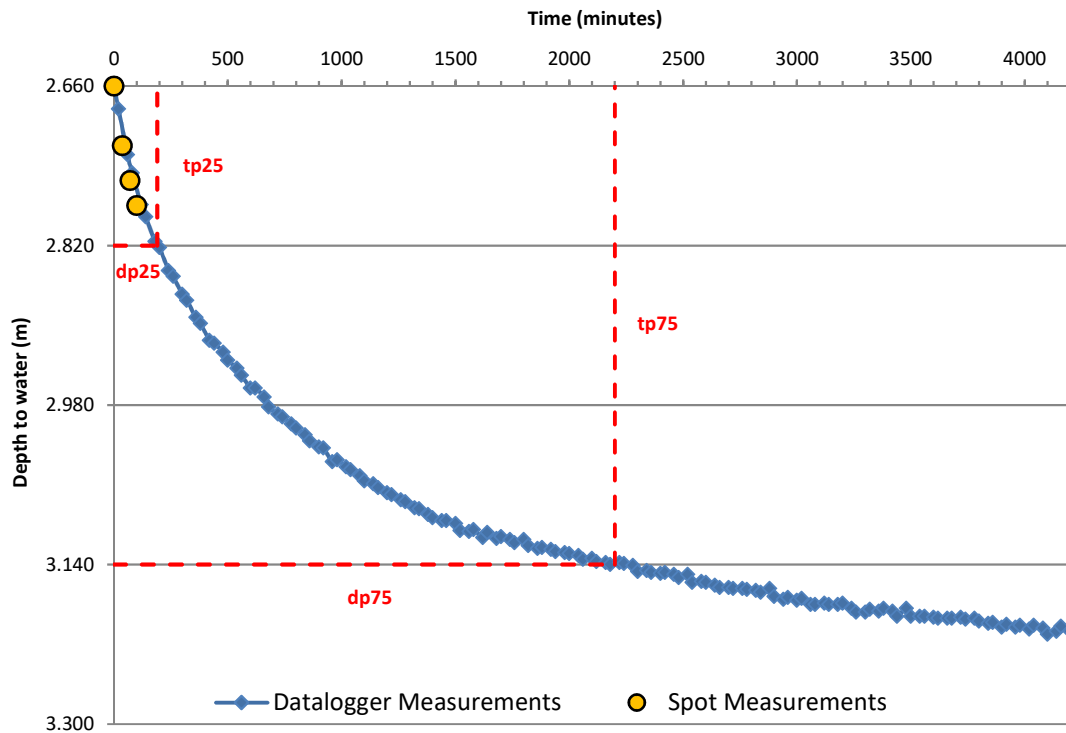
$t_{p75-25}$  = the time for the water level to fall from 75% to 25% effective depth  
= **2600 (minutes)**  
= **156000 (seconds)**

**$f = 1.18E-05$  m/s**

Notes	Title		
Datalogger disturbed while Soiltechnics not on site. Indicative rate based on spot measurements only. Approximately 700l water added.	Soil infiltration test (following principles of BRE Digest 365 2016)		
Geology unit under test	Diameter	Co-ordinates	Ground level
-	2.1m	-	N/A
Depth of soakaway at start of test (m)	Soakaway no.	Cycle number	Start date of test
	SA03	2	24/05/2019



**Plot showing time against depth to water:**



**Test observations:**

TIME (mins)	DEPTH TO WATER (m)	TIME (mins)	DEPTH TO WATER (m)
0	2.66		
37	2.72		
71	2.755		
100	2.78		

**Calculations:**

Soil infiltration rate (SIR),  $f = \frac{V_{p75 - 25}}{a_{p50} \times t_{p75 - 25}}$

$V_{p75 - 25}$  = effective storage volume of water in the borehole between 75% ( $d_{p75}$ ) and 25% ( $d_{p25}$ ) effective depth  
= **1.10835m<sup>3</sup>**

$a_{p50}$  = the permeable base area as constructed  
= **0.286m<sup>2</sup>**

$t_{p75} - t_{p25}$  = the time for the water level to fall from 75% to 25% effective depth  
= **2010 (minutes)**  
= **120600 (seconds)**

**$f = 3.21E-05$  m/s**

**Notes**

Approximately 4000l water added.

**Geology unit under test**

-

**Depth of soakaway at start of test (m)**

3.3

**Title**

Soil infiltration test (following principles of BRE Digest 365 2016)

**Diameter**

2.1m

**Co-ordinates**

-

**Ground level**

N/A

**Soakaway no.**

SA03

**Cycle number**

3

**Start date of test**

29/05/2019