

Geotechnical Engineering Limited  
**SOAKAWAY TEST**

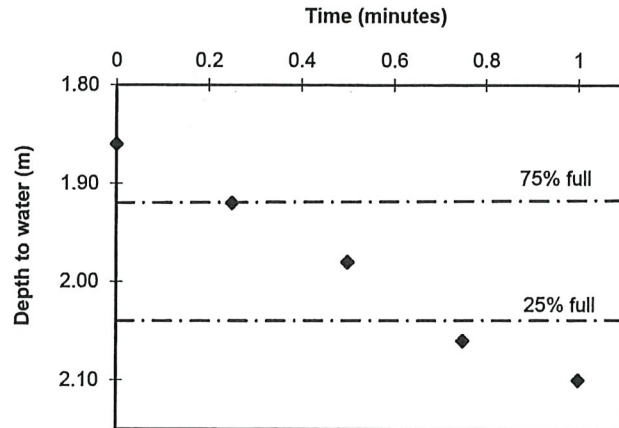


CLIENT EADIE DEVELOPMENT SOLUTIONS  
 SITE STAG HILL, CHILTON FOLIAT  
 DATE 29/03/2019

TRIAL PIT **TP401**

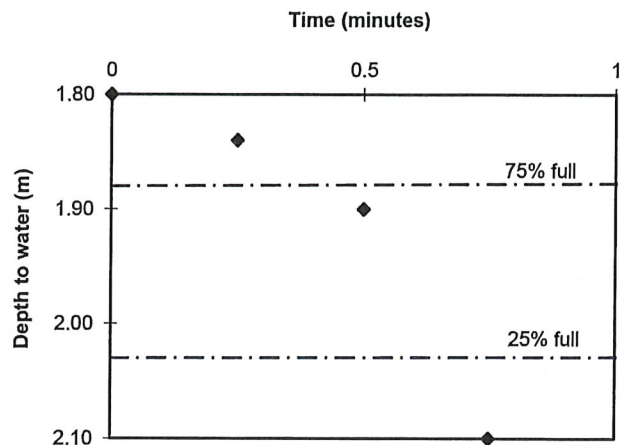
**TEST 1**  
 LENGTH 1.70 m  
 BREADTH 0.60 m  
 DEPTH 2.10 m  
 WATER LEVEL Dry  
 FILL LEVEL 1.86 m  
  
 $V_{p75-25}$  0.120 m<sup>3</sup>  
 $a_{p50}$  1.570 m<sup>2</sup>  
 $t_{p75-25}$  0.50 min  
  
 soil infiltration rate,  $f$   $3.0 \times 10^{-3} \text{ ms}^{-1}$

*= 10.8 m/hr*



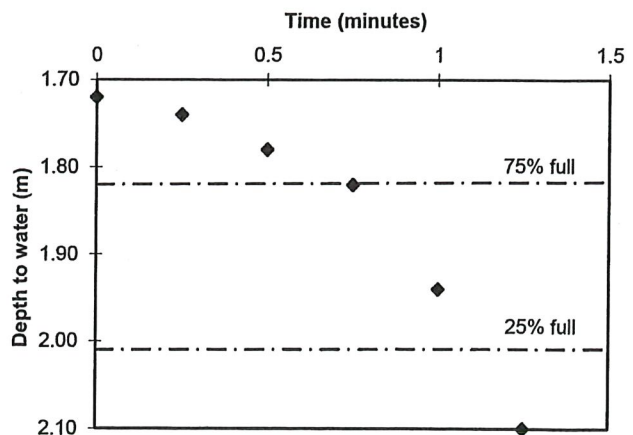
**TEST 2**  
 LENGTH 1.70 m  
 BREADTH 0.60 m  
 DEPTH 2.10 m  
 WATER LEVEL Dry  
 FILL LEVEL 1.80 m  
  
 $V_{p75-25}$  0.153 m<sup>3</sup>  
 $a_{p50}$  1.710 m<sup>2</sup>  
 $t_{p75-25}$  0.25 min  
  
 soil infiltration rate,  $f$   $6.0 \times 10^{-3} \text{ ms}^{-1}$

*= 21.6 m/hr*



**TEST 3**  
 LENGTH 1.70 m  
 BREADTH 0.60 m  
 DEPTH 2.10 m  
 WATER LEVEL Dry  
 FILL LEVEL 1.72 m  
  
 $V_{p75-25}$  0.194 m<sup>3</sup>  
 $a_{p50}$  1.894 m<sup>2</sup>  
 $t_{p75-25}$  0.37 min  
  
 soil infiltration rate,  $f$   $4.6 \times 10^{-3} \text{ ms}^{-1}$

*16.56 m/hr*



**Remarks** Test carried out in accordance with BRE DG 365 (2016).

CONTRACT  
**35117**

CHECKED  
**EL**

TH/J/S

Geotechnical Engineering Limited  
**SOAKAWAY TEST**



CLIENT EADIE DEVELOPMENT SOLUTIONS  
 SITE STAG HILL, CHILTON FOLIAT  
 DATE 29/03/2019

TRIAL PIT **TP402**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <p><b>TEST 1</b></p> <p>LENGTH 1.45 m<br/>             BREADTH 0.35 m<br/>             DEPTH 1.55 m<br/>             WATER LEVEL Dry<br/>             FILL LEVEL 1.08 m</p> <p><math>V_{p75-25}</math> 0.119 m<sup>3</sup><br/> <math>a_{p50}</math> 1.354 m<sup>2</sup><br/> <math>t_{p75-25}</math> 14 min</p> <p>soil infiltration rate, <math>f</math> <math>1.1 \times 10^{-4} \text{ ms}^{-1}</math><br/> <math>= 0.396 \text{ m/hr}</math></p>                                     | <p>Time (minutes)</p> |
| <p><b>TEST 2</b></p> <p>LENGTH 1.45 m<br/>             BREADTH 0.35 m<br/>             DEPTH 1.55 m<br/>             WATER LEVEL Dry<br/>             FILL LEVEL 0.98 m</p> <p><math>V_{p75-25}</math> 0.145 m<sup>3</sup><br/> <math>a_{p50}</math> 1.534 m<sup>2</sup><br/> <math>t_{p75-25}</math> 19 min</p> <p>soil infiltration rate, <math>f</math> <math>8.3 \times 10^{-5} \text{ ms}^{-1}</math><br/> <math>= 0.2988 \text{ m/hr}</math></p>                                    | <p>Time (minutes)</p> |
| <p><b>TEST 3</b></p> <p>LENGTH 1.45 m<br/>             BREADTH 0.35 m<br/>             DEPTH 1.55 m<br/>             WATER LEVEL Dry<br/>             FILL LEVEL 0.99 m</p> <p><math>V_{p75-25}</math> 0.142 m<sup>3</sup><br/> <math>a_{p50}</math> 1.516 m<sup>2</sup><br/> <math>t_{p75-25}</math> 23 min</p> <p><b>WORST CASE</b><br/>             soil infiltration rate, <math>f</math> <math>6.8 \times 10^{-5} \text{ ms}^{-1}</math><br/> <math>= 0.2448 \text{ m/hr}</math></p> | <p>Time (minutes)</p> |
| <p><b>Remarks</b> Test carried out in accordance with BRE DG 365 (2016).</p> <p><b>CONTRACT</b> 35117 <b>CHECKED</b> EL</p>                                                                                                                                                                                                                                                                                                                                                               |                       |

TH/JS