

TEST 1	TEST 2	TEST 3
BRE 365 Method	BRE 365 Method	BRE 365 Method
Width of Trial Pit 0.6 m	Width of Trial Pit 0.6 m	Width of Trial Pit 0.6 m
Length of Trial Pit 2.1 m	Length of Trial Pit 2.1 m	Length of Trial Pit 2.1 m
or	or	or
Diameter of Borehole 0 m	Diameter of Borehole 0 m	Diameter of Borehole 0 m
Surface area of pit 1.26 m ²	Surface area of pit 1.26 m ²	Surface area of pit 1.26 m ²
Effective Depth (initial depth of water) 0.9 m	Effective Depth (initial depth of water) 0.84 m	Effective Depth (initial depth of water) 0.93 m
Gravel Void Ratio 30.00%	Gravel Void Ratio 30.00%	Gravel Void Ratio 30.00%
V_{p75-25} 0.1701 m ³	V_{p75-25} 0.15876 m ³	V_{p75-25} 0.17577 m ³
a_{p50} 3.69 m ²	a_{p50} 3.528 m ²	a_{p50} 3.771 m ²
t_{p75-25} time for water to fall from 0.675 m	t_{p75-25} time for water to fall from 0.63 m	t_{p75-25} time for water to fall from 0.6975 m
to 0.225 m	to 0.21 m	to 0.2325 m
$t_{p75-25} = 175.2$ s	$t_{p75-25} = 181.2$ s	$t_{p75-25} = 169.8$ s
Infiltration rate = $V_{p75-25} / (a_{p50} \times t_{p75-25})$	Infiltration rate = $V_{p75-25} / (a_{p50} \times t_{p75-25})$	Infiltration rate = $V_{p75-25} / (a_{p50} \times t_{p75-25})$
Infiltration rate = 2.63E-04 m/s	Infiltration rate = 2.48E-04 m/s	Infiltration rate = 2.75E-04 m/s

RAW DATA				RAW DATA				RAW DATA			
mins	depth bgl	water depth		mins	depth bgl	water depth		mins	depth bgl	water depth	
0	1.6			0	1.66			0	1.57		
0.64	1.824	1.825	0.675	0.64	1.8712	1.87	0.63	0.64	1.8068	1.8025	0.6975
1	1.95			1	1.99			1	1.94		
2	2.12			2	2.15			2	2.12		
3	2.23			3	2.25			3	2.23		
3.56	2.2748	2.275	0.225	3.66	2.2896	2.29	0.21	3.47	2.2676	2.2675	0.2325
4	2.31			4	2.31			4	2.31		
5	2.37			5	2.39			5	2.36		
6	2.43			6	2.44			6	2.41		
7	2.47			7	2.48			7	2.46		
8	2.5			8	2.5			8	2.5		