Percolation Test Results – Westgate, Monk Bretton

Test pit details
Length – 2600mm
Width – 700mm
Depth – 2300mm
Plan Area – 1.82m2

Test 1
Starting depth to water – 1730mm

Time (min)	Depth (mm)
0	1730
1	1862
2	1900
3	1938
5	1990
7	1996
10	2030
16	2080
30	2160
42	2165
56	2200
68	2200
91	2200
125	2200

Effective storage volume of water in the trial pit – 1.0374m3
75% Effective depth – 1873mm from ground level
25% Effective depth – 2158mm from ground level
Time at 75% Effective depth – 1 minute
Time at 25% Effective depth – 30 minutes

Infiltration rate – 8.2 x 10-5 m/s

Test 2
Starting depth to water – 1530mm

Time (min)	Depth (mm)
0	1530
1	1689
2	1760
3	1821
5	1910
8	1960
11	1980
15	2031
27	2090
42	2140
86	2210

Effective storage volume of water in the trial pit – 1.4014m3
75% Effective depth – 1723mm from ground level
25% Effective depth – 2108mm from ground level
Time at 75% Effective depth – 2 minute
Time at 25% Effective depth – 32 minutes

Infiltration rate – 8.8 x 10-5 m/s

Test 3

Starting depth to water – 1500mm

Time (min)	Depth (mm)
0	1500
1	1610
2	1680
3	1749
5	1830
7	1880
9	1940
15	2010
23	2051
34	2100
59	2150
81	2200
109	2200

Effective storage volume of water in the trial pit – 1.456m3
75% Effective depth – 1700mm from ground level
25% Effective depth – 2100mm from ground level
Time at 75% Effective depth – 3 minute
Time at 25% Effective depth – 34 minutes

Infiltration rate – 8.6 x 10-5 m/s