

Nethertown Road Percolation Test

PLOT 1

Tests carried out during heavy rain

Hole excavated 2000mm x 1000 x 300. No groundwater was encountered during excavation.

	Test 1	Test 2	Test 3
Depth (mm)	Time (mins)	Time (mins)	Time (mins)
1000	0	0	0
750	8	10	10
500	60	60	60
250	110	110	110
t_{p75-25}	102	100	100

V_{p75-25}	0.15	m^3
a_{s50}	1.6	m^2
t_{p75-25}	102.00	min
	1.70	hrs
Soil infil rate, f	0.000015319	m/s
	0.055147059	m/hr



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PLOT 2

Tests carried out during heavy rain

Hole excavated 2000mm x 1000 x 300. No groundwater was encountered during excavation.

Test 1		Test 2	
Depth (mm)	Time (mins)	Depth (mm)	Time (mins)
600	0	750	0
400	10	500	20
10	50	400	40
0	60	0	80
t_{p75-25}	47		40

Note: test 1 was started after approx. 0.5m³ water had already drained from the hole. The ground was therefore assumed saturated and only two further tests were completed.

V_{p75-25}	0.09	m ³
a_{s50}	1.08	m ²
t_{p75-25}	47.00	min
	0.78	hrs
Soil infil rate, f	0.000029551	m/s
	0.10638298	m/hr



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PLOT 3

Tests carried out during heavy rain

Hole excavated 2000mm x 1000 x 300. No groundwater was encountered during excavation.

	Test 1	Test 2	Test 3
Depth (mm)	Time (mins)	Time (mins)	Time (mins)
1000	0	0	0
750	3	10	17
500	10	30	50
250	50	95	110
t_{p75-25}	47	85	93

V_{p75-25}	0.15	m^3
a_{s50}	1.6	m^2
t_{p75-25}	93.00	min
	1.55	hrs
Soil infil rate, f	0.000016801	m/s
	0.060483871	m/hr

