

SOAKAWAY TEST RESULTS

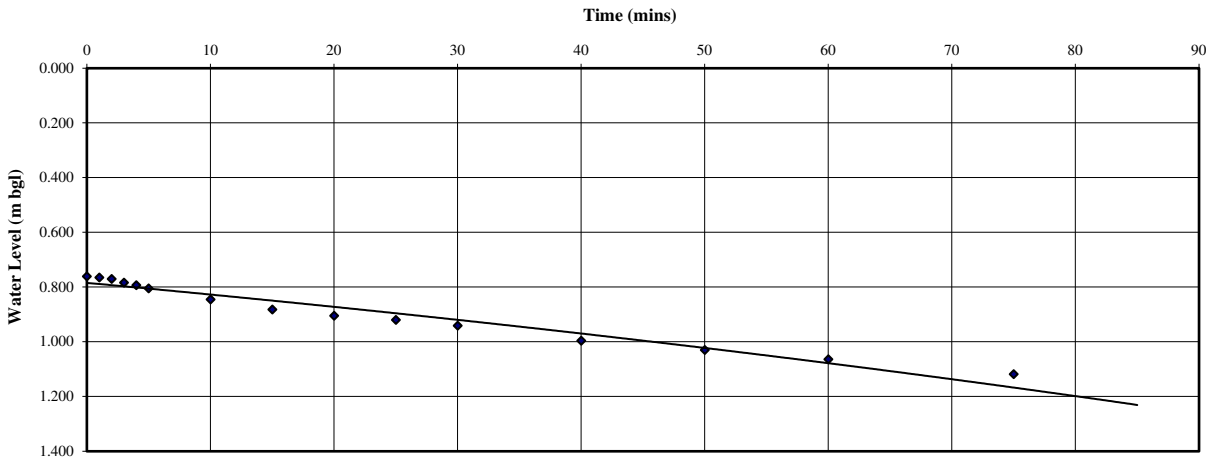
Date of Test: 05.07.22

Hole ID: SA201

Test No 1

Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.10	0.65	1.26	0.50

Time (mins)	Depth of water (m bgl)	Time (mins)	Depth of water (m bgl)	Effective storage volume in trial pit between effective depths 25% to 75%. $V_{(p75-25)} =$ = 0.34 m³	
0.0	0.761				
1.0	0.765				
2.0	0.770				
3.0	0.784			Initial surface area of trial pit up to 50% effective depth and including the base area. $a_{(p50)} =$ = 2.74 m²	
4.0	0.793				
5.0	0.805				
10.0	0.845				
15.0	0.882			Time for the water level to fall from 75 % to 25% effective depth. $t_{(p75-25)} =$ = 65 min	
20.0	0.905				
25.0	0.920				
30.0	0.941				
40.0	0.996			Soil infiltration rate = $\frac{V_{(p75-25)}}{t_{(p75-25)} \times a_{(p50)} \times 60}$	
50.0	1.030				
60.0	1.064				
75.0	1.118				
90.0	1.260			Depth_(25%) = 1.13525 Depth_(75%) = 0.886 m	
				Soil infiltration rate = 3.2E-05 m/sec	
				Remarks * Extrapolated soil infiltration rate	



Contract: Miller Homes- Northenden

Contract No: 20MIL039

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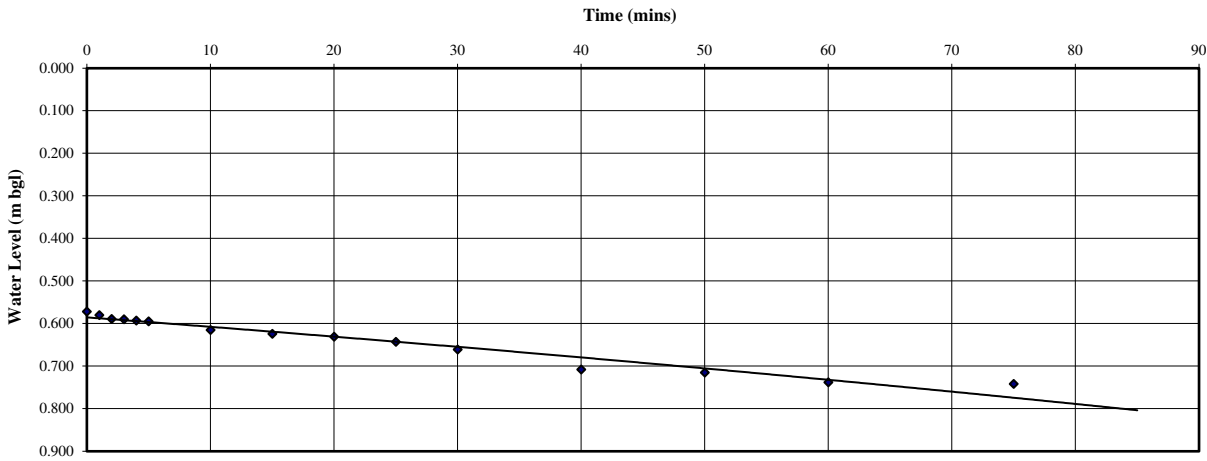
Date of Test: 05.07.22

Hole ID: SA201

Test No 2

Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.10	0.65	1.26	0.69

Time (mins)	Depth of water (m bgl)	Time (mins)	Depth of water (m bgl)	Effective storage volume in trial pit between effective depths 25% to 75%. $V_{(p75-25)}$ = 0.47 m³	
0.0	0.572			Initial surface area of trial pit up to 50% effective depth and including the base area. $a_{(p50)}$ = 3.26 m²	
1.0	0.580				
2.0	0.589				
3.0	0.590				
4.0	0.593				
5.0	0.595			Time for the water level to fall from 75 % to 25% effective depth. $t_{(p75-25)}$ = min	
10.0	0.615				
15.0	0.624				
20.0	0.631				
25.0	0.643				
30.0	0.661			Soil infiltration rate = $t_{(p75-25)}$ x $a_{(p50)}$ x 60	
40.0	0.708				
50.0	0.715				
60.0	0.738				
75.0	0.742				
100.0	0.768			Depth _(25%) = 1.088	Depth _(75%) = 0.744 m
110.0	0.776			Soil infiltration rate = N/A m/sec	
120.0	0.844			Remarks Didn't reach 25% depth * Extrapolated soil infiltration rate	
360.0	0.952				



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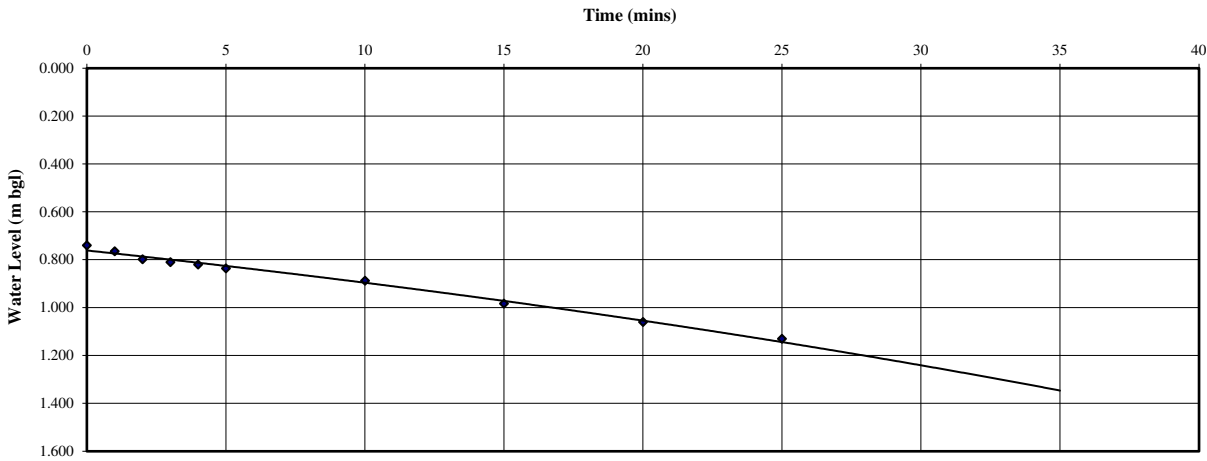
Date of Test: 05.07.22

Hole ID: SA202

Test No 1

Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.10	0.65	1.13	0.39

Time (mins)	Depth of water (m bgl)	Time (mins)	Depth of water (m bgl)	Effective storage volume in trial pit between effective depths 25% to 75%. $V_{(p75-25)} =$ = 0.27 m³	
0.0	0.740				
1.0	0.765				
2.0	0.798				
3.0	0.810			Initial surface area of trial pit up to 50% effective depth and including the base area. $a_{(p50)} =$ = 2.44 m²	
4.0	0.820				
5.0	0.836				
10.0	0.888				
15.0	0.983			Time for the water level to fall from 75 % to 25% effective depth. $t_{(p75-25)} =$ = 15 min	
20.0	1.060				
25.0	1.130				
				Soil infiltration rate = $t_{(p75-25)} \times a_{(p50)} \times 60$	
				Depth _(25%) = 1.0325	Depth _(75%) = 0.838 m
				Soil infiltration rate = 1.2E-04 m/sec	
				Remarks * Extrapolated soil infiltration rate	



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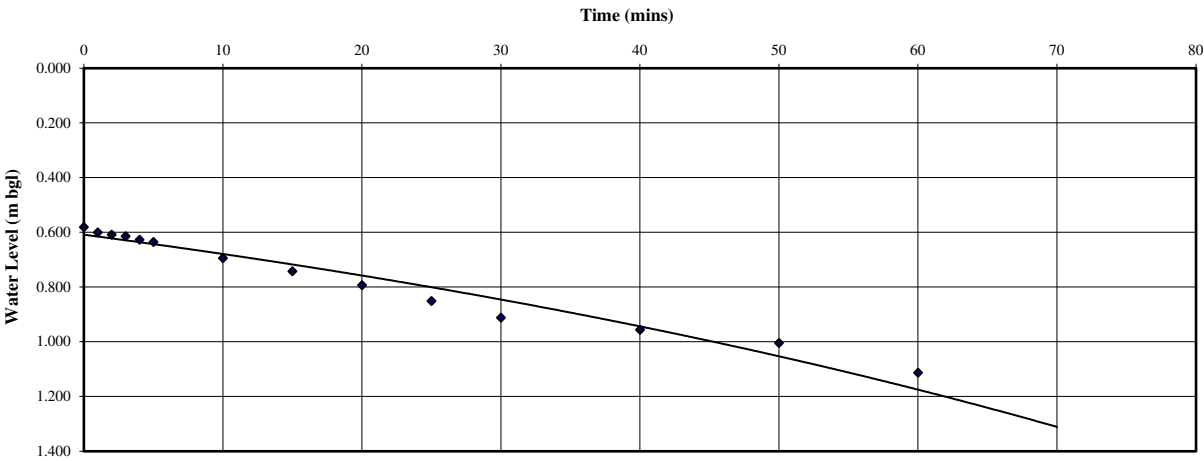
Date of Test: 05.07.22

Hole ID: SA202

Test No 2

Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.10	0.65	1.13	0.55

Time (mins)	Depth of water (m bgl)	Time (mins)	Depth of water (m bgl)	Effective storage volume in trial pit between effective depths 25% to 75%. $V_{(p75-25)} =$ = 0.37 m³	
0.0	0.581				
1.0	0.600				
2.0	0.608				
3.0	0.614				
4.0	0.627			Initial surface area of trial pit up to 50% effective depth and including the base area. $a_{(p50)} =$ = 2.87 m²	
5.0	0.635				
10.0	0.694				
15.0	0.742				
20.0	0.793				
25.0	0.851			Time for the water level to fall from 75 % to 25% effective depth. $t_{(p75-25)} =$ = 33 min	
30.0	0.912				
40.0	0.956				
50.0	1.004				
60.0	1.113				
				Soil infiltration rate = $\frac{.}{t_{(p75-25)} \times a_{(p50)} \times 60}$	
				Depth _(25%) = 0.99275	Depth _(75%) = 0.718 m
				Soil infiltration rate = 6.6E-05 m/sec	
				Remarks * Extrapolated soil infiltration rate	



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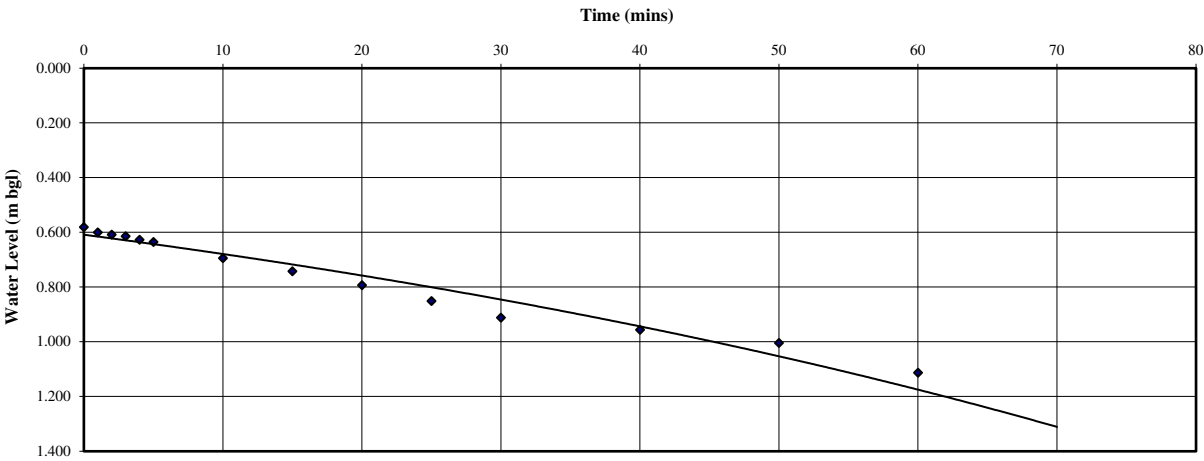
Date of Test: 05.07.22

Hole ID: SA202

Test No 3

Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.10	0.65	1.13	0.55

Time (mins)	Depth of water (m bgl)	Time (mins)	Depth of water (m bgl)	Effective storage volume in trial pit between effective depths 25% to 75%. $V_{(p75-25)} =$ = 0.37 m³	
0.0	0.581				
1.0	0.600				
2.0	0.608				
3.0	0.614				
4.0	0.627			Initial surface area of trial pit up to 50% effective depth and including the base area. $a_{(p50)} =$ = 2.87 m²	
5.0	0.635				
10.0	0.694				
15.0	0.742				
20.0	0.793				
25.0	0.851			Time for the water level to fall from 75 % to 25% effective depth. $t_{(p75-25)} =$ = 33 min	
30.0	0.912				
40.0	0.956				
50.0	1.004				
60.0	1.113				
				Soil infiltration rate = $t_{(p75-25)} \times a_{(p50)} \times 60$	
				Depth _(25%) = 0.99275	Depth _(75%) = 0.718 m
				Soil infiltration rate = 6.6E-05 m/sec	
				Remarks * Extrapolated soil infiltration rate	



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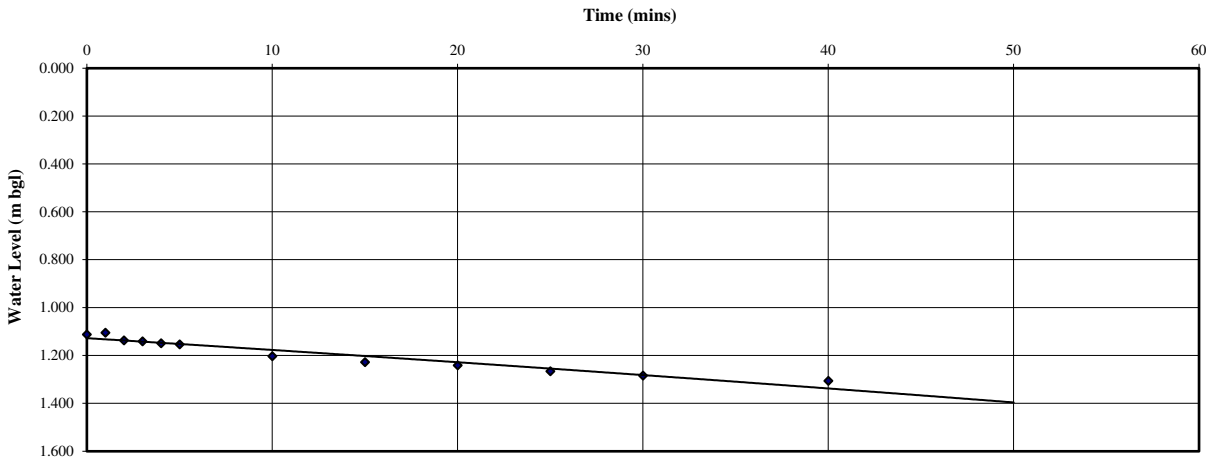
Date of Test: 05.07.22

Hole ID: SA203

Test No 1

Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.00	0.65	1.30	0.19

Time (mins)	Depth of water (m bgl)	Time (mins)	Depth of water (m bgl)	Effective storage volume in trial pit between effective depths 25% to 75%. $V_{(p75-25)} =$ = 0.12 m³	
0.0	1.112				
1.0	1.105				
2.0	1.137				
3.0	1.141				
4.0	1.149			Initial surface area of trial pit up to 50% effective depth and including the base area. $a_{(p50)} =$ = 1.80 m²	
5.0	1.154				
10.0	1.203				
15.0	1.228				
20.0	1.241				
25.0	1.266			Time for the water level to fall from 75 % to 25% effective depth. $t_{(p75-25)} =$ = min	
30.0	1.284				
40.0	1.306				
				Soil infiltration rate = $t_{(p75-25)} \times a_{(p50)} \times 60$	
				Depth _(25%) = 1.253	Depth _(75%) = 1.159 m
				Soil infiltration rate = N/A m/sec	
				Remarks Partial collapse during first fill, depth reduced from 1.60mbgl to 1.30mbgl. Failure to get to 25% in this fill. Fill 2 or 3 to be used. Rate using 1.30mbgl as the depth would be 5.8E-05 m/sec * Extrapolated soil infiltration rate	



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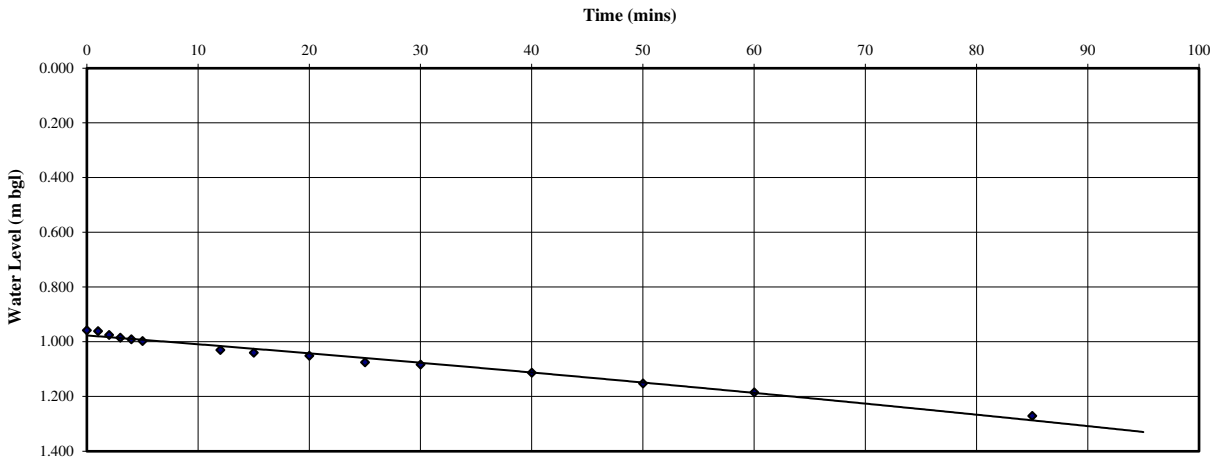
Date of Test: 05.07.22

Hole ID: SA203

Test No 2

Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.00	0.65	1.30	0.34

Time (mins)	Depth of water (m bgl)	Time (mins)	Depth of water (m bgl)	Effective storage volume in trial pit between effective depths 25% to 75%. $V_{(p75-25)} =$ = 0.22 m³	
0.0	0.958				
1.0	0.961				
2.0	0.975				
3.0	0.985			Initial surface area of trial pit up to 50% effective depth and including the base area. $a_{(p50)} =$ = 2.21 m²	
4.0	0.991				
5.0	0.997				
12.0	1.030				
15.0	1.040			Time for the water level to fall from 75 % to 25% effective depth. $t_{(p75-25)} =$ = 53 min	
20.0	1.051				
25.0	1.075				
30.0	1.083				
40.0	1.113			Soil infiltration rate = $\frac{.}{t_{(p75-25)} \times a_{(p50)} \times 60}$	
50.0	1.152				
60.0	1.185				
85.0	1.271				
				Depth _(25%) = 1.2145	Depth _(75%) = 1.044 m
				Soil infiltration rate = 3.2E-05 m/sec	
				Remarks * Extrapolated soil infiltration rate	



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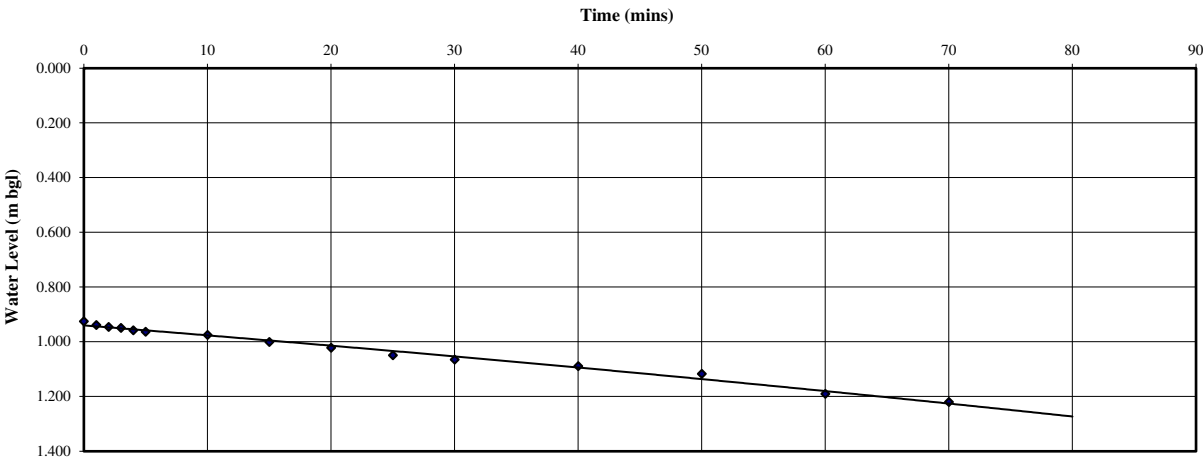
Date of Test: 05.07.22

Hole ID: SA203

Test No 3

Trial Pit Dimensions (m)	Length	Width	Depth	Depth for Analysis
	2.00	0.65	1.30	0.38

Time (mins)	Depth of water (m bgl)	Time (mins)	Depth of water (m bgl)	Effective storage volume in trial pit between effective depths 25% to 75%. $V_{(p75-25)} =$ = 0.24 m³	
0.0	0.925				
1.0	0.939				
2.0	0.946				
3.0	0.949			Initial surface area of trial pit up to 50% effective depth and including the base area. $a_{(p50)} =$ = 2.29 m²	
4.0	0.958				
5.0	0.963				
10.0	0.975				
15.0	1.001			Time for the water level to fall from 75 % to 25% effective depth. $t_{(p75-25)} =$ = 45 min	
20.0	1.022				
25.0	1.049				
30.0	1.065				
40.0	1.089			Soil infiltration rate = $t_{(p75-25)} \times a_{(p50)} \times 60$	
50.0	1.117				
60.0	1.190				
70.0	1.220				
				Depth _(25%) = 1.20625	Depth _(75%) = 1.019 m
				Soil infiltration rate = 3.9E-05 m/sec	
				Remarks * Extrapolated soil infiltration rate	



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