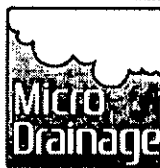


ABMH		Page 1
1 The Grove Felpham West Sussex PO22 7EY	MIDDLETON HOUSE SAT1 Trench Soakaway - rear	
Date 17/10/2018 15:38 File FC2780 MIDDLETON house-	Designed by MH Checked by	
Micro Drainage Source Control 2017.1.2		

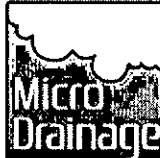
Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 1092 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	4.621	0.121	0.1	6.9	O K
30 min Summer	4.662	0.162	0.2	9.2	O K
60 min Summer	4.705	0.205	0.2	11.7	O K
120 min Summer	4.748	0.248	0.2	14.1	O K
180 min Summer	4.771	0.271	0.2	15.4	O K
240 min Summer	4.785	0.285	0.2	16.2	O K
360 min Summer	4.801	0.301	0.2	17.2	O K
480 min Summer	4.810	0.310	0.2	17.7	O K
600 min Summer	4.814	0.314	0.2	17.9	O K
720 min Summer	4.815	0.315	0.2	18.0	O K
960 min Summer	4.812	0.312	0.2	17.8	O K
1440 min Summer	4.805	0.305	0.2	17.4	O K
2160 min Summer	4.789	0.289	0.2	16.5	O K
2880 min Summer	4.772	0.272	0.2	15.5	O K
4320 min Summer	4.739	0.239	0.2	13.6	O K
5760 min Summer	4.709	0.209	0.2	11.9	O K
7200 min Summer	4.681	0.181	0.2	10.3	O K
8640 min Summer	4.656	0.156	0.2	8.9	O K
10080 min Summer	4.634	0.134	0.2	7.6	O K
15 min Winter	4.636	0.136	0.2	7.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	124.633	0.0	19
30 min Summer	83.789	0.0	34
60 min Summer	53.779	0.0	64
120 min Summer	33.337	0.0	124
180 min Summer	24.832	0.0	182
240 min Summer	20.006	0.0	242
360 min Summer	14.706	0.0	362
480 min Summer	11.818	0.0	482
600 min Summer	9.966	0.0	600
720 min Summer	8.665	0.0	720
960 min Summer	6.943	0.0	856
1440 min Summer	5.071	0.0	1098
2160 min Summer	3.696	0.0	1492
2880 min Summer	2.949	0.0	1904
4320 min Summer	2.142	0.0	2724
5760 min Summer	1.705	0.0	3512
7200 min Summer	1.427	0.0	4256
8640 min Summer	1.235	0.0	5016
10080 min Summer	1.093	0.0	5752
15 min Winter	124.633	0.0	19

©1982-2017 XP Solutions

ABMH		Page 2
1 The Grove Felpham West Sussex PO22 7EY	MIDDLETON HOUSE SAT1 Trench Soakaway - rear	
Date 17/10/2018 15:38 File FC2780 MIDDLETON house-...	Designed by MH Checked by	
Micro Drainage	Source Control 2017.1.2	

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.681	0.181	0.2	10.3	O K
60 min Winter	4.730	0.230	0.2	13.1	O K
120 min Winter	4.779	0.279	0.2	15.9	O K
180 min Winter	4.806	0.306	0.2	17.4	O K
240 min Winter	4.822	0.322	0.2	18.4	O K
360 min Winter	4.842	0.342	0.2	19.5	O K
480 min Winter	4.854	0.354	0.2	20.2	O K
600 min Winter	4.860	0.360	0.2	20.5	O K
720 min Winter	4.863	0.363	0.2	20.7	O K
960 min Winter	4.863	0.363	0.2	20.7	O K
1440 min Winter	4.851	0.351	0.2	20.0	O K
2160 min Winter	4.831	0.331	0.2	18.8	O K
2880 min Winter	4.806	0.306	0.2	17.5	O K
4320 min Winter	4.757	0.257	0.2	14.6	O K
5760 min Winter	4.710	0.210	0.2	12.0	O K
7200 min Winter	4.669	0.169	0.2	9.6	O K
8640 min Winter	4.633	0.133	0.1	7.6	O K
10080 min Winter	4.603	0.103	0.1	5.9	O K

Storm Event	Rain (mm/hr)	Flooded Time-Peak Volume (mins) (m³)
30 min Winter	83.789	0.0 33
60 min Winter	53.779	0.0 62
120 min Winter	33.337	0.0 122
180 min Winter	24.832	0.0 180
240 min Winter	20.006	0.0 238
360 min Winter	14.706	0.0 356
480 min Winter	11.818	0.0 470
600 min Winter	9.966	0.0 584
720 min Winter	8.665	0.0 696
960 min Winter	6.943	0.0 914
1440 min Winter	5.071	0.0 1168
2160 min Winter	3.696	0.0 1620
2880 min Winter	2.949	0.0 2076
4320 min Winter	2.142	0.0 2940
5760 min Winter	1.705	0.0 3752
7200 min Winter	1.427	0.0 4544
8640 min Winter	1.235	0.0 5272
10080 min Winter	1.093	0.0 5952

ABMH		Page 4																				
1 The Grove Felpham West Sussex PO22 7EY	MIDDLETON HOUSE SAT1 Trench Soakaway - rear																					
Date 17/10/2018 15:38	Designed by MH																					
File FC2780 MIDDLETON house-...	Checked by																					
Micro Drainage		Source Control 2017.1.2																				
<u>Model Details</u> Storage is Online Cover Level (m) 5.350 <u>Infiltration Trench Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.02520</td> <td>Trench Width (m)</td> <td>6.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.02520</td> <td>Trench Length (m)</td> <td>10.0</td> </tr> <tr> <td>Safety Factor</td> <td>3.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.95</td> <td>Cap Volume Depth (m)</td> <td>0.400</td> </tr> <tr> <td>Invert Level (m)</td> <td>4.500</td> <td>Cap Infiltration Depth (m)</td> <td>0.400</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.02520	Trench Width (m)	6.0	Infiltration Coefficient Side (m/hr)	0.02520	Trench Length (m)	10.0	Safety Factor	3.0	Slope (1:X)	0.0	Porosity	0.95	Cap Volume Depth (m)	0.400	Invert Level (m)	4.500	Cap Infiltration Depth (m)	0.400
Infiltration Coefficient Base (m/hr)	0.02520	Trench Width (m)	6.0																			
Infiltration Coefficient Side (m/hr)	0.02520	Trench Length (m)	10.0																			
Safety Factor	3.0	Slope (1:X)	0.0																			
Porosity	0.95	Cap Volume Depth (m)	0.400																			
Invert Level (m)	4.500	Cap Infiltration Depth (m)	0.400																			
©1982-2017 XP Solutions																						