

Robert Clark Associates		Page 1
Willow Cottage	Highlands	
Herne Lane	Fontwell Avenue	
Rustington BN16 3EE	Eastergate	
Date 21.5.18	Designed by RTFC	
File Rear geocell.SRCX	Checked by	
Micro Drainage	Source Control 2016.1	

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

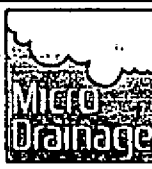
Half Drain Time : 13 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	14.274	0.324	1.0	1.2	O K
30 min Summer	14.311	0.361	1.1	1.4	O K
60 min Summer	14.302	0.352	1.1	1.3	O K
120 min Summer	14.239	0.289	1.0	1.1	O K
180 min Summer	14.177	0.227	0.9	0.9	O K
240 min Summer	14.125	0.175	0.8	0.7	O K
360 min Summer	14.051	0.101	0.8	0.4	O K
480 min Summer	14.010	0.060	0.7	0.2	O K
600 min Summer	13.996	0.046	0.6	0.2	O K
720 min Summer	13.991	0.041	0.6	0.2	O K
960 min Summer	13.983	0.033	0.5	0.1	O K
1440 min Summer	13.974	0.024	0.3	0.1	O K
2160 min Summer	13.968	0.018	0.2	0.1	O K
2880 min Summer	13.964	0.014	0.2	0.1	O K
4320 min Summer	13.960	0.010	0.1	0.0	O K
5760 min Summer	13.958	0.008	0.1	0.0	O K
7200 min Summer	13.957	0.007	0.1	0.0	O K
8640 min Summer	13.956	0.006	0.1	0.0	O K
10080 min Summer	13.955	0.005	0.1	0.0	O K
15 min Winter	14.321	0.371	1.1	1.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	124.633	0.0	14
30 min Summer	83.789	0.0	23
60 min Summer	53.779	0.0	40
120 min Summer	33.337	0.0	72
180 min Summer	24.832	0.0	104
240 min Summer	20.006	0.0	134
360 min Summer	14.706	0.0	194
480 min Summer	11.818	0.0	250
600 min Summer	9.966	0.0	306
720 min Summer	8.665	0.0	368
960 min Summer	6.943	0.0	488
1440 min Summer	5.071	0.0	734
2160 min Summer	3.696	0.0	1100
2880 min Summer	2.949	0.0	1456
4320 min Summer	2.142	0.0	2148
5760 min Summer	1.705	0.0	2936
7200 min Summer	1.427	0.0	3544
8640 min Summer	1.235	0.0	4408
10080 min Summer	1.093	0.0	4992
15 min Winter	124.633	0.0	15

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<u>Rainfall Details</u>											
Rainfall Model	FSR	Winter Storms Yes									
Return Period (years)	100	Cv (Summer) 0.750									
Region	England and Wales	Cv (Winter) 0.840									
M5-60 (mm)	19.000	Shortest Storm (mins) 15									
Ratio R	0.350	Longest Storm (mins) 10080									
Summer Storms	Yes	Climate Change % +40									
<u>Time Area Diagram</u>											
Total Area (ha) 0.008											
<table border="0"> <tr> <td colspan="2">Time (mins)</td> <td>Area</td> </tr> <tr> <td>From:</td> <td>To:</td> <td>(ha)</td> </tr> <tr> <td>0</td> <td>4</td> <td>0.008</td> </tr> </table>			Time (mins)		Area	From:	To:	(ha)	0	4	0.008
Time (mins)		Area									
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<u>Model Details</u>																				
Storage is Online Cover Level (m) 14.950																				
<u>Cellular Storage Structure</u>																				
Invert Level (m) 13.950																				
Infiltration Coefficient Base (m/hr) 1.41444																				
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Safety Factor 2.5																				
Porosity 0.95																				
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