

Robert Clark Associates		Page 1
Willow Cottage Herne Lane Rustington BN16 3EE	15 Highview Road Eastergate	
Date 11.1.18	Designed by RTFC	
File Geocell-1.SRCX	Checked by	
Micro Drainage	Source Control 2016.1	

Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 350 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.324	0.324	0.1	1.7	OK
30 min Summer	0.431	0.431	0.1	2.3	OK
60 min Summer	0.538	0.538	0.1	2.8	OK
120 min Summer	0.629	0.629	0.1	3.3	OK
180 min Summer	0.663	0.663	0.1	3.5	OK
240 min Summer	0.672	0.672	0.1	3.5	OK
360 min Summer	0.676	0.676	0.1	3.5	OK
480 min Summer	0.674	0.674	0.1	3.5	OK
600 min Summer	0.667	0.667	0.1	3.5	OK
720 min Summer	0.656	0.656	0.1	3.4	OK
960 min Summer	0.632	0.632	0.1	3.3	OK
1440 min Summer	0.581	0.581	0.1	3.0	OK
2160 min Summer	0.512	0.512	0.1	2.7	OK
2880 min Summer	0.452	0.452	0.1	2.4	OK
4320 min Summer	0.355	0.355	0.1	1.9	OK
5760 min Summer	0.280	0.280	0.1	1.5	OK
7200 min Summer	0.222	0.222	0.1	1.2	OK
8640 min Summer	0.177	0.177	0.1	0.9	OK
10080 min Summer	0.140	0.140	0.1	0.7	OK
15 min Winter	0.364	0.364	0.1	1.9	OK

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	116.550	0.0	19
30 min Summer	78.724	0.0	33
60 min Summer	50.758	0.0	62
120 min Summer	31.577	0.0	122
180 min Summer	23.548	0.0	180
240 min Summer	18.974	0.0	234
360 min Summer	13.998	0.0	288
480 min Summer	11.266	0.0	352
600 min Summer	9.511	0.0	420
720 min Summer	8.278	0.0	490
960 min Summer	6.642	0.0	626
1440 min Summer	4.860	0.0	908
2160 min Summer	3.548	0.0	1300
2880 min Summer	2.835	0.0	1700
4320 min Summer	2.062	0.0	2464
5760 min Summer	1.642	0.0	3176
7200 min Summer	1.378	0.0	3896
8640 min Summer	1.194	0.0	4664
10080 min Summer	1.058	0.0	5344
15 min Winter	116.550	0.0	18

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Summary of Results for 100 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	0.484	0.484	0.1	2.5	O K
60 min Winter	0.606	0.606	0.1	3.2	O K
120 min Winter	0.713	0.713	0.1	3.7	O K
180 min Winter	0.755	0.755	0.1	3.9	O K
240 min Winter	0.770	0.770	0.1	4.0	O K
360 min Winter	0.771	0.771	0.1	4.0	O K
480 min Winter	0.768	0.768	0.1	4.0	O K
600 min Winter	0.757	0.757	0.1	4.0	O K
720 min Winter	0.742	0.742	0.1	3.9	O K
960 min Winter	0.706	0.706	0.1	3.7	O K
1440 min Winter	0.630	0.630	0.1	3.3	O K
2160 min Winter	0.530	0.530	0.1	2.8	O K
2880 min Winter	0.446	0.446	0.1	2.3	O K
4320 min Winter	0.317	0.317	0.1	1.7	O K
5760 min Winter	0.224	0.224	0.1	1.2	O K
7200 min Winter	0.155	0.155	0.1	0.8	O K
8640 min Winter	0.103	0.103	0.1	0.5	O K
10080 min Winter	0.065	0.065	0.0	0.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	78.724	0.0	33		
60 min Winter	50.758	0.0	62		
120 min Winter	31.577	0.0	120		
180 min Winter	23.548	0.0	176		
240 min Winter	18.974	0.0	230		
360 min Winter	13.998	0.0	304		
480 min Winter	11.266	0.0	372		
600 min Winter	9.511	0.0	448		
720 min Winter	8.278	0.0	526		
960 min Winter	6.642	0.0	676		
1440 min Winter	4.860	0.0	968		
2160 min Winter	3.548	0.0	1388		
2880 min Winter	2.835	0.0	1788		
4320 min Winter	2.062	0.0	2592		
5760 min Winter	1.642	0.0	3336		
7200 min Winter	1.378	0.0	4040		
8640 min Winter	1.194	0.0	4752		
10080 min Winter	1.058	0.0	5344		
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Model Details

Storage is Online Cover Level (m) 10.000

Cellular Storage Structure

Invert Level (m) 0.000
 Infiltration Coefficient Base (m/hr) 0.06760
 Infiltration Coefficient Side (m/hr) 0.06760
 Safety Factor 2.5
 Porosity 0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	5.5	5.5	0.900	0.0	15.9
0.800	5.5	15.9			

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