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Willow Cottage Herne Lane Rustington BN16 3EE	New Adventure Golf Hotham Park	
Date 2 October 2017 File pp2.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 19 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	5.161	0.041	7.7	9.2	0 K
30 min Summer	5.171	0.051	9.3	11.4	0 K
60 min Summer	5.177	0.057	9.3	12.6	0 K
120 min Summer	5.173	0.053	9.3	11.8	0 K
180 min Summer	5.167	0.047	8.7	10.4	0 K
240 min Summer	5.162	0.042	7.8	9.3	0 K
360 min Summer	5.155	0.035	6.5	7.7	0 K
480 min Summer	5.150	0.030	5.5	6.6	0 K
600 min Summer	5.146	0.026	4.8	5.8	0 K
720 min Summer	5.143	0.023	4.3	5.1	0 K
960 min Summer	5.139	0.019	3.6	4.3	0 K
1440 min Summer	5.135	0.015	2.7	3.2	0 K
2160 min Summer	5.131	0.011	2.0	2.4	0 K
2880 min Summer	5.129	0.009	1.6	1.9	0 K
4320 min Summer	5.126	0.006	1.2	1.4	0 K
5760 min Summer	5.125	0.005	1.0	1.1	0 K
7200 min Summer	5.124	0.004	0.8	0.9	0 K
8640 min Summer	5.124	0.004	0.7	0.8	0 K
10080 min Summer	5.123	0.003	0.6	0.7	0 K
15 min Winter	5.168	0.048	8.9	10.6	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	115.731	0.0	15
30 min Summer	77.804	0.0	23
60 min Summer	49.937	0.0	40
120 min Summer	30.956	0.0	72
180 min Summer	23.058	0.0	102
240 min Summer	18.577	0.0	134
360 min Summer	13.656	0.0	194
480 min Summer	10.974	0.0	254
600 min Summer	9.254	0.0	314
720 min Summer	8.046	0.0	376
960 min Summer	6.447	0.0	494
1440 min Summer	4.709	0.0	736
2160 min Summer	3.432	0.0	1100
2880 min Summer	2.739	0.0	1468
4320 min Summer	1.989	0.0	2204
5760 min Summer	1.583	0.0	2944
7200 min Summer	1.325	0.0	3584
8640 min Summer	1.147	0.0	4344
10080 min Summer	1.015	0.0	5016
15 min Winter	115.731	0.0	15

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Rainfall Details

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 %	+30

Time Area Diagram

Total Area (ha) 0.074

Time (mins)	Area
From:	To: (ha)
0	4 0.074

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Model Details

Storage is Online Cover Level (m) 5.600

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.13565
Membrane Percolation (mm/hr)	1000
Max Percolation (l/s)	205.6
Safety Factor	3.0
Porosity	0.30
Invert Level (m)	5.120
Width (m)	20.0
Length (m)	37.0
Slope (1:X)	0.0
Depression Storage (mm)	5
Evaporation (mm/day)	3
Membrane Depth (m)	0

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