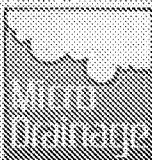


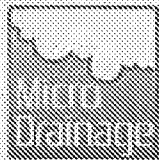
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Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 337 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	2.780	0.680	0.1	1.5	OK
30 min Summer	3.000	0.900	0.1	2.0	OK
60 min Summer	3.221	1.121	0.1	2.5	OK
120 min Summer	3.408	1.308	0.1	2.9	OK
180 min Summer	3.476	1.376	0.1	3.0	OK
240 min Summer	3.501	1.401	0.1	3.1	OK
360 min Summer	3.529	1.429	0.1	3.1	OK
480 min Summer	3.541	1.441	0.1	3.2	OK
600 min Summer	3.541	1.441	0.1	3.2	OK
720 min Summer	3.533	1.433	0.1	3.1	OK
960 min Summer	3.503	1.403	0.1	3.1	OK
1440 min Summer	3.425	1.325	0.1	2.9	OK
2160 min Summer	3.307	1.207	0.1	2.6	OK
2880 min Summer	3.204	1.104	0.1	2.4	OK
4320 min Summer	3.045	0.945	0.1	2.1	OK
5760 min Summer	2.929	0.829	0.1	1.8	OK
7200 min Summer	2.841	0.741	0.1	1.6	OK
8640 min Summer	2.772	0.672	0.1	1.5	OK
10080 min Summer	2.717	0.617	0.0	1.4	OK
15 min Winter	2.861	0.761	0.1	1.7	OK

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	115.731	0.0	19
30 min Summer	77.804	0.0	33
60 min Summer	49.937	0.0	62
120 min Summer	30.956	0.0	122
180 min Summer	23.058	0.0	180
240 min Summer	18.577	0.0	208
360 min Summer	13.656	0.0	268
480 min Summer	10.974	0.0	334
600 min Summer	9.254	0.0	404
720 min Summer	8.046	0.0	470
960 min Summer	6.447	0.0	608
1440 min Summer	4.709	0.0	880
2160 min Summer	3.432	0.0	1276
2880 min Summer	2.739	0.0	1648
4320 min Summer	1.989	0.0	2416
5760 min Summer	1.583	0.0	3120
7200 min Summer	1.325	0.0	3888
8640 min Summer	1.147	0.0	4584
10080 min Summer	1.015	0.0	5344
15 min Winter	115.731	0.0	18

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Micro Drainage	Source Control 2016.1	

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	3.109	1.009	0.1	2.2	0 K
60 min Winter	3.357	1.257	0.1	2.8	0 K
120 min Winter	3.571	1.471	0.1	3.2	0 K
180 min Winter	3.708	1.608	0.1	3.4	0 K
240 min Winter	3.776	1.676	0.1	3.5	0 K
360 min Winter	3.817	1.717	0.1	3.5	Flood Risk
480 min Winter	3.823	1.723	0.1	3.5	Flood Risk
600 min Winter	3.789	1.689	0.1	3.5	0 K
720 min Winter	3.734	1.634	0.1	3.4	0 K
960 min Winter	3.610	1.510	0.1	3.3	0 K
1440 min Winter	3.479	1.379	0.1	3.0	0 K
2160 min Winter	3.310	1.210	0.1	2.7	0 K
2880 min Winter	3.174	1.074	0.1	2.4	0 K
4320 min Winter	2.976	0.876	0.1	1.9	0 K
5760 min Winter	2.841	0.741	0.1	1.6	0 K
7200 min Winter	2.744	0.644	0.0	1.4	0 K
8640 min Winter	2.670	0.570	0.0	1.2	0 K
10080 min Winter	2.614	0.514	0.0	1.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	77.804	0.0	33
60 min Winter	49.937	0.0	62
120 min Winter	30.956	0.0	118
180 min Winter	23.058	0.0	174
240 min Winter	18.577	0.0	228
360 min Winter	13.656	0.0	284
480 min Winter	10.974	0.0	360
600 min Winter	9.254	0.0	436
720 min Winter	8.046	0.0	512
960 min Winter	6.447	0.0	654
1440 min Winter	4.709	0.0	936
2160 min Winter	3.432	0.0	1340
2880 min Winter	2.739	0.0	1728
4320 min Winter	1.989	0.0	2504
5760 min Winter	1.583	0.0	3232
7200 min Winter	1.325	0.0	3968
8640 min Winter	1.147	0.0	4680
10080 min Winter	1.015	0.0	5448

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Micro Drainage	Source Control 2016.1	

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) 0.007

Time (mins)	Area
From: To:	(ha)
0	4 0.007

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Micro Drainage	Source Control 2016.1	
<u>Model Details</u> Storage is Online Cover Level (m) 4.100 <u>Lined Soakaway Structure</u> Infiltration Coefficient Base (m/hr) 0.00000 Infiltration Coefficient Side (m/hr) 0.04770 Safety Factor 1.5 Porosity 0.30 Invert Level (m) 2.100 Ring Diameter (m) 1.20 Pit Multiplier 1.8 Number Required 1 Cap Volume Depth (m) 1.625 Cap Infiltration Depth (m) 1.500		
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