Summary of Results for 10 year Return Period (+40%)

Half Drain Time : 659 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	49.421	0.081	1.2	33.6	O K
30 min Summer	49.446	0.106	1.2	43.9	O K
60 min Summer	49.472	0.132	1.2	54.6	O K
120 min Summer	49.498	0.158	1.2	65.3	O K
180 min Summer	49.512	0.172	1.2	71.0	O K
240 min Summer	49.520	0.180	1.2	74.5	O K
360 min Summer	49.529	0.189	1.2	78.3	O K
480 min Summer	49.533	0.193	1.2	79.7	O K
600 min Summer	49.534	0.194	1.2	80.2	O K
720 min Summer	49.534	0.194	1.2	80.3	O K
960 min Summer	49.534	0.194	1.2	79.9	O K
1440 min Summer	49.528	0.188	1.2	77.6	O K
2160 min Summer	49.515	0.175	1.2	72.4	O K
2880 min Summer	49.502	0.162	1.2	66.7	O K
4320 min Summer	49.475	0.135	1.2	55.6	O K
5760 min Summer	49.451	0.111	1.2	45.7	O K
7200 min Summer	49.430	0.090	1.2	37.4	O K
8640 min Summer	49.414	0.074	1.2	30.7	O K
10080 min Summer	49.402	0.062	1.2	25.6	O K
15 min Winter	49.431	0.091	1.2	37.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	76.214	0.0	19
30 min Summer	50.290	0.0	33
60 min Summer	31.908	0.0	64
120 min Summer	19.755	0.0	122
180 min Summer	14.804	0.0	182
240 min Summer	12.028	0.0	242
360 min Summer	8.957	0.0	360
480 min Summer	7.262	0.0	478
600 min Summer	6.168	0.0	526
720 min Summer	5.396	0.0	592
960 min Summer	4.369	0.0	720
1440 min Summer	3.241	0.0	984
2160 min Summer	2.402	0.0	1404
2880 min Summer	1.942	0.0	1812
4320 min Summer	1.437	0.0	2592
5760 min Summer	1.161	0.0	3344
7200 min Summer	0.983	0.0	4040
8640 min Summer	0.859	0.0	4752
10080 min Summer	0.766	0.0	5352
15 min Winter	76.214	0.0	19

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Summary of Results for 10 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	49.459	0.119	1.2	49.4	O K
60 min Winter	49.489	0.149	1.2	61.5	O K
120 min Winter	49.519	0.179	1.2	73.7	O K
180 min Winter	49.535	0.195	1.2	80.4	O K
240 min Winter	49.545	0.205	1.2	84.7	O K
360 min Winter	49.557	0.217	1.2	89.6	O K
480 min Winter	49.563	0.223	1.2	92.0	O K
600 min Winter	49.565	0.225	1.2	92.9	O K
720 min Winter	49.565	0.225	1.2	92.8	O K
960 min Winter	49.562	0.222	1.2	91.7	O K
1440 min Winter	49.553	0.213	1.2	88.0	O K
2160 min Winter	49.533	0.193	1.2	79.8	O K
2880 min Winter	49.511	0.171	1.2	70.6	O K
4320 min Winter	49.468	0.128	1.2	53.0	O K
5760 min Winter	49.432	0.092	1.2	38.0	O K
7200 min Winter	49.405	0.065	1.2	26.7	O K
8640 min Winter	49.390	0.050	1.2	20.5	O K
10080 min Winter	49.385	0.045	1.1	18.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	50.290	0.0	33
60 min Winter	31.908	0.0	62
120 min Winter	19.755	0.0	120
180 min Winter	14.804	0.0	178
240 min Winter	12.028	0.0	236
360 min Winter	8.957	0.0	352
480 min Winter	7.262	0.0	464
600 min Winter	6.168	0.0	572
720 min Winter	5.396	0.0	676
960 min Winter	4.369	0.0	770
1440 min Winter	3.241	0.0	1080
2160 min Winter	2.402	0.0	1532
2880 min Winter	1.942	0.0	1960
4320 min Winter	1.437	0.0	2764
5760 min Winter	1.161	0.0	3464
7200 min Winter	0.983	0.0	4104
8640 min Winter	0.859	0.0	4576
10080 min Winter	0.766	0.0	5256

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	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

Time Area Diagram

Total Area (ha) 0.241

Time (mins) From:	To:	Area (ha)
0	4	0.241

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Model Details

Storage is Online Cover Level (m) 50.000

Infiltration Blanket Structure

Infiltration Coefficient Base (m/hr)	0.01800	Diameter/Width (m)	11.8
Safety Factor	5.0	Length (m)	100.0
Porosity	0.35	Cap Volume Depth (m)	0.450
Invert Level (m)	49.340		

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