Summary of Results for 100 year Return Period

Half Drain Time exceeds 7 days.

Outflow is too low. Design is unsatisfactory.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	10.367	0.167	0.0	39.6	O K
30 min Summer	10.423	0.223	0.0	53.0	O K
60 min Summer	10.486	0.286	0.0	67.9	O K
120 min Summer	10.554	0.354	0.0	84.1	O K
180 min Summer	10.596	0.396	0.0	94.1	O K
240 min Summer	10.626	0.426	0.0	101.3	O K
360 min Summer	10.669	0.469	0.0	111.4	O K
480 min Summer	10.702	0.502	0.0	119.2	O K
600 min Summer	10.729	0.529	0.0	125.6	O K
720 min Summer	10.751	0.551	0.0	131.0	O K
960 min Summer	10.789	0.589	0.0	139.8	O K
1440 min Summer	10.844	0.644	0.0	153.0	O K
2160 min Summer	10.904	0.704	0.0	167.1	O K
2880 min Summer	10.948	0.748	0.0	177.7	O K
4320 min Summer	11.014	0.814	0.0	193.4	O K
5760 min Summer	11.064	0.864	0.0	205.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	84.641	0.0	19
30 min Summer	56.695	0.0	34
60 min Summer	36.294	0.0	64
120 min Summer	22.488	0.0	124
180 min Summer	16.773	0.0	184
240 min Summer	13.540	0.0	244
360 min Summer	9.927	0.0	364
480 min Summer	7.969	0.0	484
600 min Summer	6.715	0.0	604
720 min Summer	5.836	0.0	724
960 min Summer	4.672	0.0	964
1440 min Summer	3.409	0.0	1444
2160 min Summer	2.483	0.0	2164
2880 min Summer	1.980	0.0	2884
4320 min Summer	1.437	0.0	4324
5760 min Summer	1.143	0.0	5768

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
7200 min Summer	11.104	0.904	0.0	214.7	O K
8640 min Summer	11.137	0.937	0.0	222.6	O K
10080 min Summer	11.166	0.966	0.0	229.5	O K
15 min Winter	10.367	0.167	0.0	39.6	O K
30 min Winter	10.423	0.223	0.0	53.0	O K
60 min Winter	10.486	0.286	0.0	67.9	O K
120 min Winter	10.554	0.354	0.0	84.1	O K
180 min Winter	10.596	0.396	0.0	94.1	O K
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4320 min Winter	11.014	0.814	0.0	193.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
7200 min Summer	0.957	0.0	7208
8640 min Summer	0.827	0.0	8648
10080 min Summer	0.730	0.0	10088
15 min Winter	84.641	0.0	19
30 min Winter	56.695	0.0	34
60 min Winter	36.294	0.0	64
120 min Winter	22.488	0.0	124
180 min Winter	16.773	0.0	184
240 min Winter	13.540	0.0	244
360 min Winter	9.927	0.0	364
480 min Winter	7.969	0.0	484
600 min Winter	6.715	0.0	604
720 min Winter	5.836	0.0	724
960 min Winter	4.672	0.0	964
1440 min Winter	3.409	0.0	1444
2160 min Winter	2.483	0.0	2164
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10080 min Winter	11.166	0.966	0.0	229.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
5760 min Winter	1.143	0.0	5768
7200 min Winter	0.957	0.0	7208
8640 min Winter	0.827	0.0	8648
10080 min Winter	0.730	0.0	10088

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	18.000	Shortest Storm (mins)	15
Ratio R	0.359	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.187

Time (mins) From:	To:	Area (ha)
0	4	0.187

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Model Details

Storage is Online Cover Level (m) 12.000

Cellular Storage Structure

Invert Level (m) 10.200 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	250.0	250.0	1.100	0.0	320.0
1.000	250.0	320.0			

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