Summary of Results for 30 year Return Period

Half Drain Time : 5 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	98.835	0.235	1.8	0.7	O K
30 min Summer	98.830	0.230	1.8	0.7	O K
60 min Summer	98.777	0.177	1.6	0.5	O K
120 min Summer	98.693	0.093	1.4	0.3	O K
180 min Summer	98.651	0.051	1.2	0.1	O K
240 min Summer	98.642	0.042	1.0	0.1	O K
360 min Summer	98.631	0.031	0.8	0.1	O K
480 min Summer	98.626	0.026	0.6	0.1	O K
600 min Summer	98.622	0.022	0.5	0.1	O K
720 min Summer	98.619	0.019	0.5	0.1	O K
960 min Summer	98.615	0.015	0.4	0.0	O K
1440 min Summer	98.611	0.011	0.3	0.0	O K
2160 min Summer	98.608	0.008	0.2	0.0	O K
2880 min Summer	98.607	0.007	0.2	0.0	O K
4320 min Summer	98.605	0.005	0.1	0.0	O K
5760 min Summer	98.604	0.004	0.1	0.0	O K
7200 min Summer	98.604	0.004	0.1	0.0	O K
8640 min Summer	98.603	0.003	0.1	0.0	O K
10080 min Summer	98.603	0.003	0.1	0.0	O K
15 min Winter	98.863	0.263	1.9	0.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	69.299	0.0	12
30 min Summer	45.987	0.0	20
60 min Summer	29.238	0.0	36
120 min Summer	18.051	0.0	66
180 min Summer	13.465	0.0	94
240 min Summer	10.884	0.0	124
360 min Summer	8.039	0.0	184
480 min Summer	6.482	0.0	244
600 min Summer	5.481	0.0	302
720 min Summer	4.777	0.0	362
960 min Summer	3.844	0.0	480
1440 min Summer	2.826	0.0	726
2160 min Summer	2.074	0.0	1080
2880 min Summer	1.664	0.0	1424
4320 min Summer	1.219	0.0	2192
5760 min Summer	0.977	0.0	2856
7200 min Summer	0.822	0.0	3688
8640 min Summer	0.714	0.0	4296
10080 min Summer	0.634	0.0	4864
15 min Winter	69.299	0.0	13

Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	98.838	0.238	1.8	0.7	O K
60 min Winter	98.753	0.153	1.5	0.4	O K
120 min Winter	98.651	0.051	1.2	0.1	O K
180 min Winter	98.638	0.038	0.9	0.1	O K
240 min Winter	98.631	0.031	0.8	0.1	O K
360 min Winter	98.623	0.023	0.6	0.1	O K
480 min Winter	98.619	0.019	0.5	0.1	O K
600 min Winter	98.616	0.016	0.4	0.0	O K
720 min Winter	98.614	0.014	0.3	0.0	O K
960 min Winter	98.611	0.011	0.3	0.0	O K
1440 min Winter	98.608	0.008	0.2	0.0	O K
2160 min Winter	98.606	0.006	0.2	0.0	O K
2880 min Winter	98.605	0.005	0.1	0.0	O K
4320 min Winter	98.604	0.004	0.1	0.0	O K
5760 min Winter	98.603	0.003	0.1	0.0	O K
7200 min Winter	98.603	0.003	0.1	0.0	O K
8640 min Winter	98.602	0.002	0.1	0.0	O K
10080 min Winter	98.602	0.002	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	45.987	0.0	21
60 min Winter	29.238	0.0	38
120 min Winter	18.051	0.0	64
180 min Winter	13.465	0.0	94
240 min Winter	10.884	0.0	124
360 min Winter	8.039	0.0	184
480 min Winter	6.482	0.0	240
600 min Winter	5.481	0.0	300
720 min Winter	4.777	0.0	360
960 min Winter	3.844	0.0	484
1440 min Winter	2.826	0.0	724
2160 min Winter	2.074	0.0	1140
2880 min Winter	1.664	0.0	1408
4320 min Winter	1.219	0.0	2048
5760 min Winter	0.977	0.0	2864
7200 min Winter	0.822	0.0	3544
8640 min Winter	0.714	0.0	4376
10080 min Winter	0.634	0.0	5016

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.357	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.012

Time (mins) From:	To:	Area (ha)
0	4	0.012

Model Details

Storage is Online Cover Level (m) 99.600

Cellular Storage Structure

Invert Level (m) 98.600 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 2.62800 Porosity 0.95
Infiltration Coefficient Side (m/hr) 2.62800

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	3.0	3.0	0.500	0.0	6.2
0.400	3.0	6.2			