Summary of Results for 30 year Return Period

Half Drain Time : 3 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	46.354	0.704	5.3	1.3	O K
30 min Summer	46.322	0.672	5.2	1.3	O K
60 min Summer	46.167	0.517	4.4	1.0	O K
120 min Summer	45.962	0.312	3.3	0.6	O K
180 min Summer	45.839	0.189	2.7	0.4	O K
240 min Summer	45.760	0.110	2.3	0.2	O K
360 min Summer	45.696	0.046	1.8	0.1	O K
480 min Summer	45.688	0.038	1.5	0.1	O K
600 min Summer	45.682	0.032	1.2	0.1	O K
720 min Summer	45.678	0.028	1.1	0.1	O K
960 min Summer	45.672	0.022	0.9	0.0	O K
1440 min Summer	45.666	0.016	0.6	0.0	O K
2160 min Summer	45.662	0.012	0.5	0.0	O K
2880 min Summer	45.660	0.010	0.4	0.0	O K
4320 min Summer	45.657	0.007	0.3	0.0	O K
5760 min Summer	45.656	0.006	0.2	0.0	O K
7200 min Summer	45.655	0.005	0.2	0.0	O K
8640 min Summer	45.655	0.005	0.2	0.0	O K
10080 min Summer	45.654	0.004	0.2	0.0	O K
15 min Winter	46.419	0.769	5.7	1.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	69.625	0.0	12
30 min Summer	46.099	0.0	20
60 min Summer	29.238	0.0	36
120 min Summer	18.009	0.0	66
180 min Summer	13.416	0.0	96
240 min Summer	10.836	0.0	126
360 min Summer	7.992	0.0	184
480 min Summer	6.438	0.0	242
600 min Summer	5.441	0.0	304
720 min Summer	4.740	0.0	360
960 min Summer	3.810	0.0	482
1440 min Summer	2.797	0.0	734
2160 min Summer	2.051	0.0	1096
2880 min Summer	1.644	0.0	1436
4320 min Summer	1.203	0.0	2224
5760 min Summer	0.963	0.0	2840
7200 min Summer	0.810	0.0	3600
8640 min Summer	0.703	0.0	4376
10080 min Summer	0.624	0.0	4992
15 min Winter	69.625	0.0	12

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	46.320	0.670	5.1	1.3	O K
60 min Winter	46.100	0.450	4.0	0.9	O K
120 min Winter	45.857	0.207	2.8	0.4	O K
180 min Winter	45.735	0.085	2.1	0.2	O K
240 min Winter	45.696	0.046	1.8	0.1	O K
360 min Winter	45.684	0.034	1.3	0.1	O K
480 min Winter	45.677	0.027	1.1	0.1	O K
600 min Winter	45.673	0.023	0.9	0.0	O K
720 min Winter	45.670	0.020	0.8	0.0	O K
960 min Winter	45.666	0.016	0.6	0.0	O K
1440 min Winter	45.662	0.012	0.5	0.0	O K
2160 min Winter	45.659	0.009	0.4	0.0	O K
2880 min Winter	45.657	0.007	0.3	0.0	O K
4320 min Winter	45.655	0.005	0.2	0.0	O K
5760 min Winter	45.655	0.005	0.2	0.0	O K
7200 min Winter	45.654	0.004	0.2	0.0	O K
8640 min Winter	45.654	0.004	0.1	0.0	O K
10080 min Winter	45.653	0.003	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.099	0.0	20
60 min Winter	29.238	0.0	36
120 min Winter	18.009	0.0	66
180 min Winter	13.416	0.0	96
240 min Winter	10.836	0.0	122
360 min Winter	7.992	0.0	184
480 min Winter	6.438	0.0	236
600 min Winter	5.441	0.0	302
720 min Winter	4.740	0.0	358
960 min Winter	3.810	0.0	492
1440 min Winter	2.797	0.0	748
2160 min Winter	2.051	0.0	1064
2880 min Winter	1.644	0.0	1492
4320 min Winter	1.203	0.0	2196
5760 min Winter	0.963	0.0	3120
7200 min Winter	0.810	0.0	3728
8640 min Winter	0.703	0.0	4128
10080 min Winter	0.624	0.0	4960

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	0.362	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.028

Time (mins) From:	To:	Area (ha)
0	4	0.028

Model Details

Storage is Online Cover Level (m) 47.700

Cellular Storage Structure

Invert Level (m) 45.650 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 6.15600 Porosity 0.95
Infiltration Coefficient Side (m/hr) 6.15600

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	2.0	2.0	0.900	0.0	6.8
0.800	2.0	6.8			