Summary of Results for 30 year Return Period

Half Drain Time : 65 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	60.969	0.719	0.2	0.7	O K
30 min Summer	61.190	0.940	0.2	0.8	O K
60 min Summer	61.283	1.033	0.2	0.9	O K
120 min Summer	61.308	1.058	0.2	1.0	O K
180 min Summer	61.274	1.024	0.2	0.9	O K
240 min Summer	61.223	0.973	0.2	0.9	O K
360 min Summer	61.057	0.807	0.2	0.8	O K
480 min Summer	60.979	0.729	0.2	0.7	O K
600 min Summer	60.914	0.664	0.1	0.6	O K
720 min Summer	60.858	0.608	0.1	0.6	O K
960 min Summer	60.767	0.517	0.1	0.5	O K
1440 min Summer	60.636	0.386	0.1	0.4	O K
2160 min Summer	60.513	0.263	0.1	0.2	O K
2880 min Summer	60.435	0.185	0.1	0.2	O K
4320 min Summer	60.340	0.090	0.1	0.1	O K
5760 min Summer	60.298	0.048	0.0	0.0	O K
7200 min Summer	60.291	0.041	0.0	0.0	O K
8640 min Summer	60.285	0.035	0.0	0.0	O K
10080 min Summer	60.281	0.031	0.0	0.0	O K
15 min Winter	61.062	0.812	0.2	0.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	69.495	0.0	17
30 min Summer	46.054	0.0	31
60 min Summer	29.238	0.0	50
120 min Summer	18.026	0.0	84
180 min Summer	13.436	0.0	118
240 min Summer	10.855	0.0	152
360 min Summer	8.011	0.0	216
480 min Summer	6.455	0.0	280
600 min Summer	5.457	0.0	344
720 min Summer	4.755	0.0	406
960 min Summer	3.823	0.0	530
1440 min Summer	2.809	0.0	778
2160 min Summer	2.060	0.0	1144
2880 min Summer	1.652	0.0	1500
4320 min Summer	1.209	0.0	2208
5760 min Summer	0.968	0.0	2936
7200 min Summer	0.815	0.0	3656
8640 min Summer	0.707	0.0	4400
10080 min Summer	0.628	0.0	5136
15 min Winter	69.495	0.0	17

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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	61.311	1.061	0.2	1.0	O K
60 min Winter	61.422	1.172	0.2	1.1	O K
120 min Winter	61.436	1.186	0.2	1.1	O K
180 min Winter	61.375	1.125	0.2	1.0	O K
240 min Winter	61.293	1.043	0.2	0.9	O K
360 min Winter	61.078	0.828	0.2	0.8	O K
480 min Winter	60.963	0.713	0.2	0.7	O K
600 min Winter	60.877	0.627	0.1	0.6	O K
720 min Winter	60.806	0.556	0.1	0.5	O K
960 min Winter	60.694	0.444	0.1	0.4	O K
1440 min Winter	60.548	0.298	0.1	0.3	O K
2160 min Winter	60.420	0.170	0.1	0.2	O K
2880 min Winter	60.345	0.095	0.1	0.1	O K
4320 min Winter	60.294	0.044	0.0	0.0	O K
5760 min Winter	60.285	0.035	0.0	0.0	O K
7200 min Winter	60.280	0.030	0.0	0.0	O K
8640 min Winter	60.276	0.026	0.0	0.0	O K
10080 min Winter	60.273	0.023	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.054	0.0	31
60 min Winter	29.238	0.0	56
120 min Winter	18.026	0.0	90
180 min Winter	13.436	0.0	128
240 min Winter	10.855	0.0	164
360 min Winter	8.011	0.0	228
480 min Winter	6.455	0.0	294
600 min Winter	5.457	0.0	358
720 min Winter	4.755	0.0	422
960 min Winter	3.823	0.0	548
1440 min Winter	2.809	0.0	794
2160 min Winter	2.060	0.0	1152
2880 min Winter	1.652	0.0	1504
4320 min Winter	1.209	0.0	2164
5760 min Winter	0.968	0.0	2928
7200 min Winter	0.815	0.0	3632
8640 min Winter	0.707	0.0	4368
10080 min Winter	0.628	0.0	5072

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

Time Area Diagram

Total Area (ha) 0.006

Time (mins) From:	To:	Area (ha)
0	4	0.006

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Model Details

Storage is Online Cover Level (m) 61.800

Cellular Storage Structure

Invert Level (m) 60.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.29520 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.29520

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	1.0	1.0	0.900	0.0	4.2
0.800	1.0	4.2			

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