Summary of Results for 30 year Return Period

Half Drain Time : 83 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	60.044	0.444	0.5	3.4	O K
30 min Summer	60.153	0.553	0.6	4.2	O K
60 min Summer	60.221	0.621	0.6	4.7	O K
120 min Summer	60.240	0.640	0.6	4.9	O K
180 min Summer	60.226	0.626	0.6	4.8	O K
240 min Summer	60.203	0.603	0.6	4.6	O K
360 min Summer	60.152	0.552	0.6	4.2	O K
480 min Summer	60.105	0.505	0.6	3.8	O K
600 min Summer	60.060	0.460	0.6	3.5	O K
720 min Summer	60.019	0.419	0.5	3.2	O K
960 min Summer	59.947	0.347	0.5	2.6	O K
1440 min Summer	59.835	0.235	0.4	1.8	O K
2160 min Summer	59.726	0.126	0.4	1.0	O K
2880 min Summer	59.665	0.065	0.4	0.5	O K
4320 min Summer	59.641	0.041	0.3	0.3	O K
5760 min Summer	59.633	0.033	0.2	0.2	O K
7200 min Summer	59.628	0.028	0.2	0.2	O K
8640 min Summer	59.624	0.024	0.2	0.2	O K
10080 min Summer	59.621	0.021	0.1	0.2	O K
15 min Winter	60.102	0.502	0.6	3.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	69.495	0.0	18
30 min Summer	46.054	0.0	31
60 min Summer	29.238	0.0	58
120 min Summer	18.026	0.0	88
180 min Summer	13.436	0.0	124
240 min Summer	10.855	0.0	158
360 min Summer	8.011	0.0	226
480 min Summer	6.455	0.0	294
600 min Summer	5.457	0.0	360
720 min Summer	4.755	0.0	424
960 min Summer	3.823	0.0	550
1440 min Summer	2.809	0.0	794
2160 min Summer	2.060	0.0	1148
2880 min Summer	1.652	0.0	1476
4320 min Summer	1.209	0.0	2184
5760 min Summer	0.968	0.0	2936
7200 min Summer	0.815	0.0	3632
8640 min Summer	0.707	0.0	4408
10080 min Summer	0.628	0.0	5104
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	60.229	0.629	0.6	4.8	O K
60 min Winter	60.315	0.715	0.7	5.4	O K
120 min Winter	60.334	0.734	0.7	5.6	O K
180 min Winter	60.311	0.711	0.7	5.4	O K
240 min Winter	60.275	0.675	0.7	5.1	O K
360 min Winter	60.196	0.596	0.6	4.5	O K
480 min Winter	60.124	0.524	0.6	4.0	O K
600 min Winter	60.059	0.459	0.6	3.5	O K
720 min Winter	60.001	0.401	0.5	3.0	O K
960 min Winter	59.902	0.302	0.5	2.3	O K
1440 min Winter	59.760	0.160	0.4	1.2	O K
2160 min Winter	59.650	0.050	0.4	0.4	O K
2880 min Winter	59.640	0.040	0.3	0.3	O K
4320 min Winter	59.629	0.029	0.2	0.2	O K
5760 min Winter	59.624	0.024	0.2	0.2	O K
7200 min Winter	59.620	0.020	0.1	0.1	O K
8640 min Winter	59.617	0.017	0.1	0.1	O K
10080 min Winter	59.615	0.015	0.1	0.1	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	58
120 min Winter	18.026	0.0	94
180 min Winter	13.436	0.0	132
240 min Winter	10.855	0.0	170
360 min Winter	8.011	0.0	244
480 min Winter	6.455	0.0	314
600 min Winter	5.457	0.0	382
720 min Winter	4.755	0.0	448
960 min Winter	3.823	0.0	578
1440 min Winter	2.809	0.0	822
2160 min Winter	2.060	0.0	1104
2880 min Winter	1.652	0.0	1464
4320 min Winter	1.209	0.0	2204
5760 min Winter	0.968	0.0	2944
7200 min Winter	0.815	0.0	3672
8640 min Winter	0.707	0.0	4256
10080 min Winter	0.628	0.0	4960

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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) 0.029

Time (mins) From:	To:	Area (ha)
0	4	0.029

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Model Details

Storage is Online Cover Level (m) 61.100

Cellular Storage Structure

Invert Level (m) 59.600 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	8.0	8.0	0.900	0.0	17.6
0.800	8.0	17.6			

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