Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 100 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.921	0.921	6.6	47.4	O K
30 min Summer	1.164	1.164	7.8	62.9	O K
60 min Summer	1.366	1.366	8.8	75.8	O K
120 min Summer	1.481	1.481	9.4	83.1	O K
180 min Summer	1.500	1.500	9.5	84.3	O K
240 min Summer	1.486	1.486	9.4	83.4	O K
360 min Summer	1.433	1.433	9.2	80.0	O K
480 min Summer	1.368	1.368	8.8	75.9	O K
600 min Summer	1.303	1.303	8.5	71.8	O K
720 min Summer	1.241	1.241	8.2	67.8	O K
960 min Summer	1.129	1.129	7.7	60.7	O K
1440 min Summer	0.948	0.948	6.8	49.1	O K
2160 min Summer	0.752	0.752	5.8	36.6	O K
2880 min Summer	0.613	0.613	5.1	27.8	O K
4320 min Summer	0.437	0.437	4.2	16.5	O K
5760 min Summer	0.349	0.349	3.8	10.9	O K
7200 min Summer	0.308	0.308	3.2	8.5	O K
8640 min Summer	0.277	0.277	2.8	6.9	O K
10080 min Summer	0.252	0.252	2.5	5.7	O K
15 min Winter	1.016	1.016	7.1	53.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	112.388	0.0	21
30 min Summer	77.888	0.0	34
60 min Summer	51.576	0.0	60
120 min Summer	32.847	0.0	94
180 min Summer	24.737	0.0	128
240 min Summer	20.127	0.0	162
360 min Summer	15.044	0.0	230
480 min Summer	12.212	0.0	298
600 min Summer	10.376	0.0	366
720 min Summer	9.077	0.0	432
960 min Summer	7.340	0.0	560
1440 min Summer	5.427	0.0	810
2160 min Summer	4.001	0.0	1172
2880 min Summer	3.217	0.0	1532
4320 min Summer	2.366	0.0	2252
5760 min Summer	1.905	0.0	2936
7200 min Summer	1.611	0.0	3672
8640 min Summer	1.405	0.0	4408
10080 min Summer	1.252	0.0	5136
15 min Winter	112.388	0.0	21

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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	1.292	1.292	8.5	71.1	O K
60 min Winter	1.531	1.531	9.7	86.3	O K
120 min Winter	1.656	1.656	10.3	94.3	O K
180 min Winter	1.665	1.665	10.3	94.8	O K
240 min Winter	1.633	1.633	10.2	92.8	O K
360 min Winter	1.541	1.541	9.7	86.9	O K
480 min Winter	1.438	1.438	9.2	80.4	O K
600 min Winter	1.340	1.340	8.7	74.1	O K
720 min Winter	1.250	1.250	8.3	68.4	O K
960 min Winter	1.094	1.094	7.5	58.4	O K
1440 min Winter	0.856	0.856	6.3	43.3	O K
2160 min Winter	0.619	0.619	5.1	28.2	O K
2880 min Winter	0.464	0.464	4.4	18.3	O K
4320 min Winter	0.325	0.325	3.4	9.5	O K
5760 min Winter	0.273	0.273	2.8	6.7	O K
7200 min Winter	0.237	0.237	2.4	5.1	O K
8640 min Winter	0.211	0.211	2.1	4.0	O K
10080 min Winter	0.191	0.191	1.8	3.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	77.888	0.0	34
60 min Winter	51.576	0.0	60
120 min Winter	32.847	0.0	98
180 min Winter	24.737	0.0	136
240 min Winter	20.127	0.0	174
360 min Winter	15.044	0.0	248
480 min Winter	12.212	0.0	318
600 min Winter	10.376	0.0	388
720 min Winter	9.077	0.0	456
960 min Winter	7.340	0.0	588
1440 min Winter	5.427	0.0	842
2160 min Winter	4.001	0.0	1212
2880 min Winter	3.217	0.0	1564
4320 min Winter	2.366	0.0	2212
5760 min Winter	1.905	0.0	2944
7200 min Winter	1.611	0.0	3672
8640 min Winter	1.405	0.0	4400
10080 min Winter	1.252	0.0	5136

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.600	Shortest Storm (mins)	15
Ratio R	0.292	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.250

Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)
0	4	0.125	4	8	0.125

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Model Details

Storage is Online Cover Level (m) 2.000

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.10000	Trench Width (m)	1.2
Infiltration Coefficient Side (m/hr)	0.10000	Trench Length (m)	177.0
Safety Factor	2.0	Slope (1:X)	500.0
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

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