Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 1013 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.209	0.209	0.1	3.2	O K
30 min Summer	0.257	0.257	0.1	4.4	Flood Risk
60 min Summer	0.309	0.309	0.1	5.8	Flood Risk
120 min Summer	0.348	0.348	0.1	6.8	Flood Risk
180 min Summer	0.370	0.370	0.1	7.3	Flood Risk
240 min Summer	0.383	0.383	0.1	7.6	Flood Risk
360 min Summer	0.394	0.394	0.1	7.9	Flood Risk
480 min Summer	0.397	0.397	0.1	8.0	Flood Risk
600 min Summer	0.396	0.396	0.1	8.0	Flood Risk
720 min Summer	0.392	0.392	0.1	7.9	Flood Risk
960 min Summer	0.383	0.383	0.1	7.6	Flood Risk
1440 min Summer	0.365	0.365	0.1	7.2	Flood Risk
2160 min Summer	0.342	0.342	0.1	6.6	Flood Risk
2880 min Summer	0.322	0.322	0.1	6.1	Flood Risk
4320 min Summer	0.290	0.290	0.1	5.3	Flood Risk
5760 min Summer	0.265	0.265	0.1	4.6	Flood Risk
7200 min Summer	0.244	0.244	0.1	4.1	Flood Risk
8640 min Summer	0.228	0.228	0.1	3.7	Flood Risk
10080 min Summer	0.214	0.214	0.1	3.4	Flood Risk
15 min Winter	0.226	0.226	0.1	3.7	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	141.164	0.0	19
30 min Summer	94.700	0.0	34
60 min Summer	60.903	0.0	64
120 min Summer	36.128	0.0	124
180 min Summer	26.473	0.0	182
240 min Summer	21.126	0.0	242
360 min Summer	15.214	0.0	362
480 min Summer	12.016	0.0	482
600 min Summer	9.993	0.0	600
720 min Summer	8.590	0.0	720
960 min Summer	6.756	0.0	826
1440 min Summer	4.823	0.0	1066
2160 min Summer	3.462	0.0	1468
2880 min Summer	2.754	0.0	1872
4320 min Summer	2.025	0.0	2680
5760 min Summer	1.648	0.0	3456
7200 min Summer	1.419	0.0	4184
8640 min Summer	1.264	0.0	4936
10080 min Summer	1.153	0.0	5656
15 min Winter	141.164	0.0	19

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	0.281	0.281	0.1	5.0	Flood Risk
60 min Winter	0.340	0.340	0.1	6.5	Flood Risk
120 min Winter	0.384	0.384	0.1	7.7	Flood Risk
180 min Winter	0.409	0.409	0.1	8.3	Flood Risk
240 min Winter	0.424	0.424	0.1	8.7	Flood Risk
360 min Winter	0.439	0.439	0.1	9.0	Flood Risk
480 min Winter	0.444	0.444	0.1	9.2	Flood Risk
600 min Winter	0.445	0.445	0.1	9.2	Flood Risk
720 min Winter	0.443	0.443	0.1	9.1	Flood Risk
960 min Winter	0.433	0.433	0.1	8.9	Flood Risk
1440 min Winter	0.409	0.409	0.1	8.3	Flood Risk
2160 min Winter	0.379	0.379	0.1	7.5	Flood Risk
2880 min Winter	0.349	0.349	0.1	6.8	Flood Risk
4320 min Winter	0.299	0.299	0.1	5.5	Flood Risk
5760 min Winter	0.258	0.258	0.1	4.5	Flood Risk
7200 min Winter	0.225	0.225	0.1	3.6	Flood Risk
8640 min Winter	0.198	0.198	0.1	3.0	O K
10080 min Winter	0.178	0.178	0.1	2.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	94.700	0.0	33
60 min Winter	60.903	0.0	62
120 min Winter	36.128	0.0	122
180 min Winter	26.473	0.0	180
240 min Winter	21.126	0.0	238
360 min Winter	15.214	0.0	356
480 min Winter	12.016	0.0	470
600 min Winter	9.993	0.0	584
720 min Winter	8.590	0.0	694
960 min Winter	6.756	0.0	912
1440 min Winter	4.823	0.0	1140
2160 min Winter	3.462	0.0	1596
2880 min Winter	2.754	0.0	2044
4320 min Winter	2.025	0.0	2892
5760 min Winter	1.648	0.0	3688
7200 min Winter	1.419	0.0	4400
8640 min Winter	1.264	0.0	5104
10080 min Winter	1.153	0.0	5752

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.014

Time (mins) From:	To:	Area (ha)
0	4	0.014

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Model Details

Storage is Online Cover Level (m) 0.510

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	6.0
Membrane Percolation (mm/hr)	1000	Length (m)	14.0
Max Percolation (l/s)	23.3	Slope (1:X)	87.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	0.000	Membrane Depth (m)	0

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