

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

Half Drain Time : 967 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	50.789	0.289	0.0	1.9	O K
30 min Summer	50.887	0.387	0.0	2.6	O K
60 min Summer	50.987	0.487	0.0	3.2	O K
120 min Summer	51.084	0.584	0.0	3.9	O K
180 min Summer	51.138	0.638	0.0	4.2	O K
240 min Summer	51.173	0.673	0.0	4.5	O K
360 min Summer	51.209	0.709	0.0	4.7	O K
480 min Summer	51.221	0.721	0.0	4.8	O K
600 min Summer	51.221	0.721	0.0	4.8	O K
720 min Summer	51.214	0.714	0.0	4.7	O K
960 min Summer	51.195	0.695	0.0	4.6	O K
1440 min Summer	51.154	0.654	0.0	4.4	O K
2160 min Summer	51.097	0.597	0.0	4.0	O K
2880 min Summer	51.050	0.550	0.0	3.7	O K
4320 min Summer	50.975	0.475	0.0	3.2	O K
5760 min Summer	50.918	0.418	0.0	2.8	O K
15 min Winter	50.789	0.289	0.0	1.9	O K
30 min Winter	50.887	0.387	0.0	2.6	O K
60 min Winter	50.988	0.488	0.0	3.2	O K
120 min Winter	51.085	0.585	0.0	3.9	O K
180 min Winter	51.140	0.640	0.0	4.3	O K
240 min Winter	51.174	0.674	0.0	4.5	O K
360 min Winter	51.212	0.712	0.0	4.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	136.808	0.0	19
30 min Summer	92.092	0.0	34
60 min Summer	58.758	0.0	64
120 min Summer	36.078	0.0	124
180 min Summer	26.880	0.0	182
240 min Summer	21.711	0.0	242
360 min Summer	15.927	0.0	362
480 min Summer	12.682	0.0	480
600 min Summer	10.587	0.0	600
720 min Summer	9.113	0.0	700
960 min Summer	7.164	0.0	806
1440 min Summer	5.062	0.0	1052
2160 min Summer	3.563	0.0	1452
2880 min Summer	2.783	0.0	1872
4320 min Summer	1.976	0.0	2680
5760 min Summer	1.562	0.0	3464
15 min Winter	136.808	0.0	19
30 min Winter	92.092	0.0	33
60 min Winter	58.758	0.0	62
120 min Winter	36.078	0.0	122
180 min Winter	26.880	0.0	180
240 min Winter	21.711	0.0	238
360 min Winter	15.927	0.0	354

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
480 min Winter	51.225	0.725	0.0	4.8	O K
600 min Winter	51.227	0.727	0.0	4.8	O K
720 min Winter	51.221	0.721	0.0	4.8	O K
960 min Winter	51.200	0.700	0.0	4.7	O K
1440 min Winter	51.153	0.653	0.0	4.3	O K
2160 min Winter	51.086	0.586	0.0	3.9	O K
2880 min Winter	51.026	0.526	0.0	3.5	O K
4320 min Winter	50.928	0.428	0.0	2.8	O K
5760 min Winter	50.853	0.353	0.0	2.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
480 min Winter	12.682	0.0	468
600 min Winter	10.587	0.0	578
720 min Winter	9.113	0.0	686
960 min Winter	7.164	0.0	886
1440 min Winter	5.062	0.0	1098
2160 min Winter	3.563	0.0	1560
2880 min Winter	2.783	0.0	2016
4320 min Winter	1.976	0.0	2856
5760 min Winter	1.562	0.0	3688

Rainfall Details

Rainfall Model	FEH	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.950
FEH Rainfall Version	2013	Cv (Winter)	0.950
Site Location	GB 478300 180800 SU 78300 80800	Shortest Storm (mins)	15
Data Type	Catchment	Longest Storm (mins)	5760
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.006

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

Model Details

Storage is Online Cover Level (m) 52.000

Cellular Storage Structure

Invert Level (m) 50.500 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.02387 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.02387

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	7.0	7.0	0.800	7.0	15.5	0.801	0.0	15.5