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Ground Floor, 24 High Street Whittlesford Cambs, CB22 4LT	MALTING LANE BRAUGHING, HERTS PLOT 7 SOAKAWAY	
Date 31/03/2023 11:37 File 3017-PLOT 7-SOAKAWAY.SRCX	Designed by JTC Checked by	

Innovyze Source Control 2020.1.3

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

Half Drain Time : 198 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	75.208	0.208	0.1	1.8	O K
30 min Summer	75.265	0.265	0.1	2.3	O K
60 min Summer	75.312	0.312	0.1	2.7	O K
120 min Summer	75.336	0.336	0.1	2.9	O K
180 min Summer	75.335	0.335	0.1	2.9	O K
240 min Summer	75.328	0.328	0.1	2.8	O K
360 min Summer	75.314	0.314	0.1	2.7	O K
480 min Summer	75.298	0.298	0.1	2.5	O K
600 min Summer	75.282	0.282	0.1	2.4	O K
720 min Summer	75.266	0.266	0.1	2.3	O K
960 min Summer	75.237	0.237	0.1	2.0	O K
1440 min Summer	75.187	0.187	0.1	1.6	O K
2160 min Summer	75.129	0.129	0.1	1.1	O K
2880 min Summer	75.088	0.088	0.1	0.8	O K
4320 min Summer	75.049	0.049	0.1	0.4	O K
5760 min Summer	75.040	0.040	0.1	0.3	O K
7200 min Summer	75.033	0.033	0.1	0.3	O K
8640 min Summer	75.029	0.029	0.1	0.2	O K
10080 min Summer	75.026	0.026	0.1	0.2	O K
15 min Winter	75.234	0.234	0.1	2.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	143.047	0.0	18
30 min Summer	93.509	0.0	33
60 min Summer	58.167	0.0	62
120 min Summer	34.926	0.0	120
180 min Summer	25.561	0.0	156
240 min Summer	20.358	0.0	186
360 min Summer	14.768	0.0	252
480 min Summer	11.750	0.0	322
600 min Summer	9.834	0.0	388
720 min Summer	8.499	0.0	456
960 min Summer	6.746	0.0	590
1440 min Summer	4.864	0.0	850
2160 min Summer	3.502	0.0	1212
2880 min Summer	2.771	0.0	1556
4320 min Summer	1.989	0.0	2204
5760 min Summer	1.571	0.0	2936
7200 min Summer	1.308	0.0	3672
8640 min Summer	1.125	0.0	4408
10080 min Summer	0.991	0.0	5136
15 min Winter	143.047	0.0	18

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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 (m ³)	Status
30 min Winter	75.299	0.299	0.1	2.6	O K
60 min Winter	75.353	0.353	0.2	3.0	O K
120 min Winter	75.386	0.386	0.2	3.3	O K
180 min Winter	75.386	0.386	0.2	3.3	O K
240 min Winter	75.377	0.377	0.2	3.2	O K
360 min Winter	75.358	0.358	0.2	3.1	O K
480 min Winter	75.335	0.335	0.1	2.9	O K
600 min Winter	75.312	0.312	0.1	2.7	O K
720 min Winter	75.289	0.289	0.1	2.5	O K
960 min Winter	75.246	0.246	0.1	2.1	O K
1440 min Winter	75.174	0.174	0.1	1.5	O K
2160 min Winter	75.095	0.095	0.1	0.8	O K
2880 min Winter	75.051	0.051	0.1	0.4	O K
4320 min Winter	75.037	0.037	0.1	0.3	O K
5760 min Winter	75.029	0.029	0.1	0.2	O K
7200 min Winter	75.025	0.025	0.1	0.2	O K
8640 min Winter	75.021	0.021	0.0	0.2	O K
10080 min Winter	75.019	0.019	0.0	0.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	93.509	0.0	32
60 min Winter	58.167	0.0	60
120 min Winter	34.926	0.0	118
180 min Winter	25.561	0.0	172
240 min Winter	20.358	0.0	196
360 min Winter	14.768	0.0	272
480 min Winter	11.750	0.0	348
600 min Winter	9.834	0.0	422
720 min Winter	8.499	0.0	494
960 min Winter	6.746	0.0	636
1440 min Winter	4.864	0.0	896
2160 min Winter	3.502	0.0	1252
2880 min Winter	2.771	0.0	1524
4320 min Winter	1.989	0.0	2244
5760 min Winter	1.571	0.0	2944
7200 min Winter	1.308	0.0	3672
8640 min Winter	1.125	0.0	4336
10080 min Winter	0.991	0.0	5056

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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)	20.500	Shortest Storm (mins)	15
Ratio R	0.409	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.007

Time (mins)	Area
From: To:	(ha)
0	4 0.007

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Model Details

Storage is Online Cover Level (m) 76.500

Cellular Storage Structure

Invert Level (m) 75.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.08270 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.08270

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	9.0	9.0	1.300	9.0	24.6
0.100	9.0	10.2	1.400	9.0	25.8
0.200	9.0	11.4	1.500	9.0	27.0
0.300	9.0	12.6	1.600	9.0	28.2
0.400	9.0	13.8	1.700	9.0	29.4
0.500	9.0	15.0	1.800	9.0	30.6
0.600	9.0	16.2	1.900	9.0	31.8
0.700	9.0	17.4	2.000	9.0	33.0
0.800	9.0	18.6	2.100	9.0	34.2
0.900	9.0	19.8	2.200	9.0	35.4
1.000	9.0	21.0	2.300	9.0	36.6
1.100	9.0	22.2	2.400	9.0	37.8
1.200	9.0	23.4	2.500	9.0	39.0