

Summary of Results for 10 year Return Period (+50%)

Half Drain Time : 205 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	23.903	0.403	0.7	9.3	0 K
30 min Summer	24.014	0.514	0.7	11.9	0 K
60 min Summer	24.115	0.615	0.8	14.3	0 K
120 min Summer	24.184	0.684	0.9	15.9	0 K
180 min Summer	24.201	0.701	0.9	16.4	0 K
240 min Summer	24.207	0.707	0.9	16.5	0 K
360 min Summer	24.203	0.703	0.9	16.4	0 K
480 min Summer	24.189	0.689	0.9	16.1	0 K
600 min Summer	24.171	0.671	0.9	15.7	0 K
720 min Summer	24.153	0.653	0.8	15.2	0 K
960 min Summer	24.116	0.616	0.8	14.3	0 K
1440 min Summer	24.047	0.547	0.8	12.7	0 K
2160 min Summer	23.958	0.458	0.7	10.6	0 K
2880 min Summer	23.885	0.385	0.6	8.9	0 K
4320 min Summer	23.775	0.275	0.6	6.2	0 K
5760 min Summer	23.695	0.195	0.5	4.3	0 K
7200 min Summer	23.638	0.138	0.5	3.0	0 K
8640 min Summer	23.596	0.096	0.4	2.0	0 K
10080 min Summer	23.567	0.067	0.4	1.3	0 K
15 min Winter	23.952	0.452	0.7	10.4	0 K
30 min Winter	24.078	0.578	0.8	13.4	0 K
60 min Winter	24.195	0.695	0.9	16.2	0 K
120 min Winter	24.281	0.781	0.9	18.3	0 K
180 min Winter	24.303	0.803	1.0	18.8	0 K
240 min Winter	24.307	0.807	1.0	18.9	0 K
360 min Winter	24.299	0.799	1.0	18.7	0 K
480 min Winter	24.277	0.777	0.9	18.2	0 K
600 min Winter	24.248	0.748	0.9	17.5	0 K
720 min Winter	24.218	0.718	0.9	16.8	0 K
960 min Winter	24.160	0.660	0.9	15.4	0 K
1440 min Winter	24.056	0.556	0.8	12.9	0 K
2160 min Winter	23.931	0.431	0.7	9.9	0 K
2880 min Winter	23.835	0.335	0.6	7.6	0 K
4320 min Winter	23.697	0.197	0.5	4.4	0 K
5760 min Winter	23.608	0.108	0.4	2.3	0 K
7200 min Winter	23.553	0.053	0.4	1.0	0 K
8640 min Winter	23.545	0.045	0.3	0.8	0 K
10080 min Winter	23.540	0.040	0.3	0.7	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	82.824	0.0	18
30 min Summer	54.698	0.0	33
60 min Summer	34.733	0.0	62
120 min Summer	21.518	0.0	120
180 min Summer	16.130	0.0	152
240 min Summer	13.106	0.0	184
360 min Summer	9.767	0.0	252
480 min Summer	7.922	0.0	322
600 min Summer	6.730	0.0	390
720 min Summer	5.890	0.0	460
960 min Summer	4.770	0.0	596
1440 min Summer	3.540	0.0	866
2160 min Summer	2.625	0.0	1252
2880 min Summer	2.123	0.0	1616
4320 min Summer	1.572	0.0	2376
5760 min Summer	1.270	0.0	3064
7200 min Summer	1.076	0.0	3816
8640 min Summer	0.940	0.0	4496
10080 min Summer	0.839	0.0	5152
15 min Winter	82.824	0.0	18
30 min Winter	54.698	0.0	32
60 min Winter	34.733	0.0	60
120 min Winter	21.518	0.0	116
180 min Winter	16.130	0.0	170
240 min Winter	13.106	0.0	192
360 min Winter	9.767	0.0	270
480 min Winter	7.922	0.0	346
600 min Winter	6.730	0.0	422
720 min Winter	5.890	0.0	494
960 min Winter	4.770	0.0	638
1440 min Winter	3.540	0.0	912
2160 min Winter	2.625	0.0	1316
2880 min Winter	2.123	0.0	1700
4320 min Winter	1.572	0.0	2424
5760 min Winter	1.270	0.0	3120
7200 min Winter	1.076	0.0	3744
8640 min Winter	0.940	0.0	4408
10080 min Winter	0.839	0.0	5120

Rainfall Details

Rainfall Model	FSR	Ratio R	0.348	Cv (Winter)	0.840
Return Period (years)	10	Summer Storms	Yes	Shortest Storm (mins)	15
Region	England and Wales	Winter Storms	Yes	Longest Storm (mins)	10080
M5-60 (mm)	19.300	Cv (Summer)	0.750	Climate Change %	+50

Time Area Diagram

Total Area (ha) 0.063

Time (mins)	Area (ha)
From:	To:
0	4 0.063

Rogers Cory Ptn Ltd		Page 3
The Old School Old School Road Hook RG27 9NJ	Fontwell Eastergate Area 7 - Soakaway	
Date 21/08/2020 21:57 File AREA 7.SRCX	Designed by Terry Seymour Checked by Terry Seymour	
Micro Drainage	Source Control 2017.1.2	

Model Details

Storage is Online Cover Level (m) 25.850

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.52200	Invert Level (m)	23.500	Cap Volume Depth (m)	1.600
Infiltration Coefficient Side (m/hr)	0.52200	Trench Width (m)	1.0	Cap Infiltration Depth (m)	1.600
Safety Factor	10.0	Trench Length (m)	25.0		
Porosity	0.95	Slope (1:X)	1000.0		