

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

Half Drain Time : 961 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	26.621	0.221	0.5	20.6	0 K
30 min Summer	26.684	0.284	0.5	26.9	0 K
60 min Summer	26.750	0.350	0.5	33.6	0 K
120 min Summer	26.818	0.418	0.5	40.5	0 K
180 min Summer	26.855	0.455	0.5	44.3	0 K
240 min Summer	26.880	0.480	0.5	46.7	0 K
360 min Summer	26.909	0.509	0.5	49.7	0 K
480 min Summer	26.924	0.524	0.5	51.3	0 K
600 min Summer	26.931	0.531	0.6	52.0	0 K
720 min Summer	26.933	0.533	0.6	52.1	0 K
960 min Summer	26.932	0.532	0.6	52.0	0 K
1440 min Summer	26.922	0.522	0.5	51.1	0 K
2160 min Summer	26.903	0.503	0.5	49.1	0 K
2880 min Summer	26.881	0.481	0.5	46.9	0 K
4320 min Summer	26.837	0.437	0.5	42.5	0 K
5760 min Summer	26.794	0.394	0.5	38.1	0 K
7200 min Summer	26.753	0.353	0.5	33.9	0 K
8640 min Summer	26.715	0.315	0.5	30.1	0 K
10080 min Summer	26.680	0.280	0.5	26.5	0 K
15 min Winter	26.646	0.246	0.5	23.1	0 K
30 min Winter	26.717	0.317	0.5	30.3	0 K
60 min Winter	26.792	0.392	0.5	37.9	0 K
120 min Winter	26.869	0.469	0.5	45.7	0 K
180 min Winter	26.913	0.513	0.5	50.2	0 K
240 min Winter	26.943	0.543	0.6	53.1	0 K
360 min Winter	26.979	0.579	0.6	56.8	0 K
480 min Winter	27.000	0.600	0.6	58.9	0 K
600 min Winter	27.012	0.612	0.6	60.1	0 K
720 min Winter	27.018	0.618	0.6	60.7	0 K
960 min Winter	27.018	0.618	0.6	60.8	0 K
1440 min Winter	27.005	0.605	0.6	59.4	0 K
2160 min Winter	26.976	0.576	0.6	56.5	0 K
2880 min Winter	26.942	0.542	0.6	53.1	0 K
4320 min Winter	26.873	0.473	0.5	46.0	0 K
5760 min Winter	26.805	0.405	0.5	39.2	0 K
7200 min Winter	26.743	0.343	0.5	32.9	0 K
8640 min Winter	26.687	0.287	0.5	27.2	0 K
10080 min Winter	26.637	0.237	0.5	22.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	82.824	0.0	19
30 min Summer	54.698	0.0	34
60 min Summer	34.733	0.0	64
120 min Summer	21.518	0.0	122
180 min Summer	16.130	0.0	182
240 min Summer	13.106	0.0	242
360 min Summer	9.767	0.0	362
480 min Summer	7.922	0.0	480
600 min Summer	6.730	0.0	600
720 min Summer	5.890	0.0	702
960 min Summer	4.770	0.0	810
1440 min Summer	3.540	0.0	1068
2160 min Summer	2.625	0.0	1472
2880 min Summer	2.123	0.0	1900
4320 min Summer	1.572	0.0	2724
5760 min Summer	1.270	0.0	3520
7200 min Summer	1.076	0.0	4320
8640 min Summer	0.940	0.0	5096
10080 min Summer	0.839	0.0	5848
15 min Winter	82.824	0.0	19
30 min Winter	54.698	0.0	33
60 min Winter	34.733	0.0	62
120 min Winter	21.518	0.0	122
180 min Winter	16.130	0.0	180
240 min Winter	13.106	0.0	238
360 min Winter	9.767	0.0	354
480 min Winter	7.922	0.0	468
600 min Winter	6.730	0.0	582
720 min Winter	5.890	0.0	692
960 min Winter	4.770	0.0	904
1440 min Winter	3.540	0.0	1126
2160 min Winter	2.625	0.0	1600
2880 min Winter	2.123	0.0	2048
4320 min Winter	1.572	0.0	2940
5760 min Winter	1.270	0.0	3800
7200 min Winter	1.076	0.0	4608
8640 min Winter	0.940	0.0	5360
10080 min Winter	0.839	0.0	6144

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) 0.135

Time (mins)		Area
From:	To:	(ha)
0	4	0.135

Rogers Cory Ptn Ltd		Page 3
The Old School Old School Road Hook RG27 9NJ	Fontwell Eastergate Area 18 Soakaway	
Date 20/08/2020 16:12 File AREA 18.SRCX	Designed by Terry Seymour Checked by Terry Seymour	
Micro Drainage	Source Control 2017.1.2	

Model Details

Storage is Online Cover Level (m) 28.000

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.13600	Invert Level (m)	26.400	Cap Volume Depth (m)	1.200
Infiltration Coefficient Side (m/hr)	0.13600	Trench Width (m)	3.0	Cap Infiltration Depth (m)	1.200
Safety Factor	10.0	Trench Length (m)	35.5		
Porosity	0.95	Slope (1:X)	1000.0		