

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

Half Drain Time : 857 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	25.714	0.314	0.3	13.3	0 K
30 min Summer	25.810	0.410	0.3	17.4	0 K
60 min Summer	25.911	0.511	0.3	21.7	0 K
120 min Summer	26.014	0.614	0.4	26.1	0 K
180 min Summer	26.071	0.671	0.4	28.5	0 K
240 min Summer	26.107	0.707	0.4	30.0	0 K
360 min Summer	26.149	0.749	0.4	31.9	0 K
480 min Summer	26.170	0.770	0.4	32.7	0 K
600 min Summer	26.178	0.778	0.4	33.1	0 K
720 min Summer	26.181	0.781	0.4	33.2	0 K
960 min Summer	26.182	0.782	0.4	33.2	0 K
1440 min Summer	26.170	0.770	0.4	32.7	0 K
2160 min Summer	26.140	0.740	0.4	31.5	0 K
2880 min Summer	26.107	0.707	0.4	30.1	0 K
4320 min Summer	26.042	0.642	0.4	27.3	0 K
5760 min Summer	25.980	0.580	0.4	24.6	0 K
7200 min Summer	25.922	0.522	0.3	22.1	0 K
8640 min Summer	25.869	0.469	0.3	19.9	0 K
10080 min Summer	25.820	0.420	0.3	17.8	0 K
15 min Winter	25.752	0.352	0.3	14.9	0 K
30 min Winter	25.860	0.460	0.3	19.5	0 K
60 min Winter	25.975	0.575	0.4	24.4	0 K
120 min Winter	26.092	0.692	0.4	29.4	0 K
180 min Winter	26.158	0.758	0.4	32.2	0 K
240 min Winter	26.201	0.801	0.4	34.1	0 K
360 min Winter	26.254	0.854	0.4	36.3	0 K
480 min Winter	26.283	0.883	0.4	37.6	0 K
600 min Winter	26.298	0.898	0.4	38.2	0 K
720 min Winter	26.304	0.904	0.4	38.5	0 K
960 min Winter	26.301	0.901	0.4	38.3	0 K
1440 min Winter	26.286	0.886	0.4	37.7	0 K
2160 min Winter	26.241	0.841	0.4	35.8	0 K
2880 min Winter	26.190	0.790	0.4	33.6	0 K
4320 min Winter	26.087	0.687	0.4	29.2	0 K
5760 min Winter	25.992	0.592	0.4	25.1	0 K
7200 min Winter	25.907	0.507	0.3	21.5	0 K
8640 min Winter	25.831	0.431	0.3	18.3	0 K
10080 min Winter	25.765	0.365	0.3	15.4	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	596
720 min Summer	5.890	0.0	644
960 min Summer	4.770	0.0	762
1440 min Summer	3.540	0.0	1026
2160 min Summer	2.625	0.0	1448
2880 min Summer	2.123	0.0	1848
4320 min Summer	1.572	0.0	2680
5760 min Summer	1.270	0.0	3464
7200 min Summer	1.076	0.0	4256
8640 min Summer	0.940	0.0	5016
10080 min Summer	0.839	0.0	5752
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	120
180 min Winter	16.130	0.0	180
240 min Winter	13.106	0.0	238
360 min Winter	9.767	0.0	352
480 min Winter	7.922	0.0	466
600 min Winter	6.730	0.0	576
720 min Winter	5.890	0.0	684
960 min Winter	4.770	0.0	866
1440 min Winter	3.540	0.0	1096
2160 min Winter	2.625	0.0	1560
2880 min Winter	2.123	0.0	2016
4320 min Winter	1.572	0.0	2892
5760 min Winter	1.270	0.0	3696
7200 min Winter	1.076	0.0	4536
8640 min Winter	0.940	0.0	5280
10080 min Winter	0.839	0.0	6056

Rogers Cory Ptn Ltd		Page 2
The Old School Old School Road Hook RG27 9NJ	Fontwell Eastergate Area 26 Soakaway	
Date 03/08/2020 22:30 File AREA 26.SRCX	Designed by Terry Seymour Checked by Terry Seymor	
Micro Drainage	Source Control 2017.1.2	

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) 0.087

Time (mins)		Area
From:	To:	(ha)
0	4	0.087

Model Details

Storage is Online Cover Level (m) 27.500

Complex Structure

Cellular Storage

Invert Level (m) 25.400 Infiltration Coefficient Side (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Base (m/hr) 0.00000 Safety Factor 2.0

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	15.0	0.0	1.600	15.0	0.0	1.601	0.0	0.0

Trench Soakaway

Infiltration Coefficient Base (m/hr) 0.27400 Invert Level (m) 25.400 Cap Volume Depth (m) 1.600
Infiltration Coefficient Side (m/hr) 0.27400 Trench Width (m) 2.5 Cap Infiltration Depth (m) 1.600
Safety Factor 10.0 Trench Length (m) 12.0
Porosity 0.95 Slope (1:X) 1000.0