

Paul Basham Associates		Page 1
Lancaster Court Fareham Hampshire, PO15 5TU	1:100+40%CC PLOT 7 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 28/10/2021 09:10 File 108.5009 - PLOT 7.SRCX	Designed by RD Checked by RW	
Innovyze	Source Control 2020.1.3	

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

Half Drain Time : 435 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	15.753	0.203	0.1	2.3	O K
30 min Summer	15.824	0.274	0.1	3.1	O K
60 min Summer	15.898	0.348	0.1	4.0	O K
120 min Summer	15.967	0.417	0.1	4.8	O K
180 min Summer	15.997	0.447	0.1	5.1	O K
240 min Summer	16.010	0.460	0.1	5.2	O K
360 min Summer	16.024	0.474	0.1	5.4	O K
480 min Summer	16.033	0.483	0.1	5.5	O K
600 min Summer	16.038	0.488	0.1	5.6	O K
720 min Summer	16.039	0.489	0.1	5.6	O K
960 min Summer	16.037	0.487	0.1	5.6	O K
1440 min Summer	16.023	0.473	0.1	5.4	O K
2160 min Summer	15.994	0.444	0.1	5.1	O K
2880 min Summer	15.965	0.415	0.1	4.7	O K
4320 min Summer	15.915	0.365	0.1	4.2	O K
5760 min Summer	15.877	0.327	0.1	3.7	O K
7200 min Summer	15.847	0.297	0.1	3.4	O K
8640 min Summer	15.823	0.273	0.1	3.1	O K
10080 min Summer	15.803	0.253	0.1	2.9	O K
15 min Winter	15.777	0.227	0.1	2.6	O K
30 min Winter	15.857	0.307	0.1	3.5	O K
60 min Winter	15.940	0.390	0.1	4.4	O K
120 min Winter	16.018	0.468	0.1	5.3	O K
180 min Winter	16.053	0.503	0.1	5.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	125.250	0.0	19
30 min Summer	85.368	0.0	33
60 min Summer	55.544	0.0	62
120 min Summer	34.816	0.0	122
180 min Summer	26.038	0.0	180
240 min Summer	21.042	0.0	240
360 min Summer	15.601	0.0	298
480 min Summer	12.593	0.0	358
600 min Summer	10.656	0.0	422
720 min Summer	9.290	0.0	492
960 min Summer	7.475	0.0	626
1440 min Summer	5.489	0.0	898
2160 min Summer	4.021	0.0	1300
2880 min Summer	3.220	0.0	1700
4320 min Summer	2.348	0.0	2464
5760 min Summer	1.878	0.0	3224
7200 min Summer	1.581	0.0	3960
8640 min Summer	1.373	0.0	4672
10080 min Summer	1.219	0.0	5440
15 min Winter	125.250	0.0	19
30 min Winter	85.368	0.0	33
60 min Winter	55.544	0.0	62
120 min Winter	34.816	0.0	120
180 min Winter	26.038	0.0	176

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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	16.069	0.519	0.2	5.9	O K
360 min Winter	16.083	0.533	0.2	6.1	O K
480 min Winter	16.090	0.540	0.2	6.2	O K
600 min Winter	16.093	0.543	0.2	6.2	O K
720 min Winter	16.091	0.541	0.2	6.2	O K
960 min Winter	16.082	0.532	0.2	6.1	O K
1440 min Winter	16.053	0.503	0.1	5.7	O K
2160 min Winter	16.007	0.457	0.1	5.2	O K
2880 min Winter	15.966	0.416	0.1	4.7	O K
4320 min Winter	15.900	0.350	0.1	4.0	O K
5760 min Winter	15.853	0.303	0.1	3.5	O K
7200 min Winter	15.818	0.268	0.1	3.1	O K
8640 min Winter	15.790	0.240	0.1	2.7	O K
10080 min Winter	15.769	0.219	0.1	2.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
240 min Winter	21.042	0.0	232
360 min Winter	15.601	0.0	330
480 min Winter	12.593	0.0	372
600 min Winter	10.656	0.0	448
720 min Winter	9.290	0.0	526
960 min Winter	7.475	0.0	674
1440 min Winter	5.489	0.0	966
2160 min Winter	4.021	0.0	1384
2880 min Winter	3.220	0.0	1788
4320 min Winter	2.348	0.0	2552
5760 min Winter	1.878	0.0	3336
7200 min Winter	1.581	0.0	4104
8640 min Winter	1.373	0.0	4840
10080 min Winter	1.219	0.0	5544

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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)	19.600	Shortest Storm (mins)	15
Ratio R	0.322	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.010

Time (mins)	Area
From:	To: (ha)

0	4 0.010
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Model Details

Storage is Online Cover Level (m) 17.100

Cellular Storage Structure

Invert Level (m) 15.550 Safety Factor 4.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.30852

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	12.0	12.0	0.800	12.0	23.1	0.801	0.0	23.1