

Paul Basham Associates		Page 1
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOTS 35-39 REV A SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 28/10/2021 09:46	Designed by RD	
File 108.5009 - PLOT 35-39 REV A.SRCX	Checked by RW	
Innovyze	Source Control 2020.1.3	

Summary of Results for 10 year Return Period (+40%)

Half Drain Time : 1367 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	15.577	0.030	0.0	4.0	O K
30 min Summer	15.587	0.040	0.0	5.3	O K
60 min Summer	15.598	0.051	0.1	6.8	O K
120 min Summer	15.610	0.063	0.1	8.4	O K
180 min Summer	15.618	0.071	0.1	9.4	O K
240 min Summer	15.623	0.076	0.1	10.1	O K
360 min Summer	15.630	0.083	0.1	11.0	O K
480 min Summer	15.635	0.088	0.1	11.7	O K
600 min Summer	15.638	0.091	0.1	12.1	O K
720 min Summer	15.640	0.093	0.1	12.4	O K
960 min Summer	15.643	0.096	0.1	12.7	O K
1440 min Summer	15.646	0.099	0.1	13.2	O K
2160 min Summer	15.649	0.102	0.1	13.6	O K
2880 min Summer	15.650	0.103	0.1	13.7	O K
4320 min Summer	15.649	0.102	0.1	13.6	O K
5760 min Summer	15.647	0.100	0.1	13.2	O K
7200 min Summer	15.643	0.096	0.1	12.8	O K
8640 min Summer	15.640	0.093	0.1	12.4	O K
10080 min Summer	15.637	0.090	0.1	12.0	O K
15 min Winter	15.581	0.034	0.0	4.5	O K
30 min Winter	15.592	0.045	0.0	6.0	O K
60 min Winter	15.604	0.057	0.1	7.6	O K
120 min Winter	15.618	0.071	0.1	9.4	O K
180 min Winter	15.626	0.079	0.1	10.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	76.566	0.0	23
30 min Summer	51.183	0.0	38
60 min Summer	32.926	0.0	68
120 min Summer	20.664	0.0	126
180 min Summer	15.602	0.0	186
240 min Summer	12.744	0.0	246
360 min Summer	9.573	0.0	364
480 min Summer	7.806	0.0	482
600 min Summer	6.660	0.0	602
720 min Summer	5.849	0.0	720
960 min Summer	4.762	0.0	858
1440 min Summer	3.561	0.0	1088
2160 min Summer	2.660	0.0	1488
2880 min Summer	2.162	0.0	1904
4320 min Summer	1.613	0.0	2724
5760 min Summer	1.311	0.0	3520
7200 min Summer	1.116	0.0	4320
8640 min Summer	0.978	0.0	5104
10080 min Summer	0.875	0.0	5856
15 min Winter	76.566	0.0	23
30 min Winter	51.183	0.0	37
60 min Winter	32.926	0.0	66
120 min Winter	20.664	0.0	124
180 min Winter	15.602	0.0	182

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Summary of Results for 10 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	15.632	0.085	0.1	11.3	O K
360 min Winter	15.640	0.093	0.1	12.4	O K
480 min Winter	15.646	0.099	0.1	13.1	O K
600 min Winter	15.649	0.102	0.1	13.6	O K
720 min Winter	15.652	0.105	0.1	13.9	O K
960 min Winter	15.655	0.108	0.1	14.4	O K
1440 min Winter	15.658	0.111	0.1	14.8	O K
2160 min Winter	15.660	0.113	0.1	15.1	O K
2880 min Winter	15.660	0.113	0.1	15.0	O K
4320 min Winter	15.656	0.109	0.1	14.5	O K
5760 min Winter	15.651	0.104	0.1	13.8	O K
7200 min Winter	15.646	0.099	0.1	13.2	O K
8640 min Winter	15.641	0.094	0.1	12.5	O K
10080 min Winter	15.637	0.090	0.1	11.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
240 min Winter	12.744	0.0	240
360 min Winter	9.573	0.0	356
480 min Winter	7.806	0.0	472
600 min Winter	6.660	0.0	584
720 min Winter	5.849	0.0	694
960 min Winter	4.762	0.0	906
1440 min Winter	3.561	0.0	1128
2160 min Winter	2.660	0.0	1584
2880 min Winter	2.162	0.0	2044
4320 min Winter	1.613	0.0	2900
5760 min Winter	1.311	0.0	3752
7200 min Winter	1.116	0.0	4608
8640 min Winter	0.978	0.0	5360
10080 min Winter	0.875	0.0	6152

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	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) 0.028

Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)
0 4	0.014	4 8	0.014

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Model Details

Storage is Online Cover Level (m) 17.900

Cellular Storage Structure

Invert Level (m) 15.547 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	140.0	140.0	0.800	140.0	180.8	0.801	0.0	180.8