

11 Broomhead Road
Wombell
Barnsley S73 0SA



Date 01/06/2022 11:35
File Highway soakaway.SRCX

Designed by shaun
Checked by

CADS Source Control 2020.1.3

Summary of Results for 30 year Return Period

Half Drain Time : 78 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	62.657	1.457	0.7	3.7	O K
30 min Summer	63.073	1.873	0.7	4.6	O K
60 min Summer	63.411	2.211	0.7	5.2	O K
120 min Summer	63.550	2.350	0.7	5.5	O K
180 min Summer	63.499	2.299	0.7	5.4	O K
240 min Summer	63.382	2.182	0.7	5.2	O K
360 min Summer	63.109	1.909	0.7	4.7	O K
480 min Summer	62.871	1.671	0.7	4.3	O K
600 min Summer	62.738	1.538	0.7	3.9	O K
720 min Summer	62.627	1.427	0.7	3.7	O K
960 min Summer	62.443	1.243	0.6	3.2	O K
1440 min Summer	62.170	0.970	0.5	2.5	O K
2160 min Summer	61.902	0.702	0.4	1.8	O K
2880 min Summer	61.721	0.521	0.4	1.3	O K
4320 min Summer	61.497	0.297	0.3	0.8	O K
5760 min Summer	61.362	0.162	0.2	0.4	O K
7200 min Summer	61.278	0.078	0.2	0.2	O K
8640 min Summer	61.247	0.047	0.2	0.1	O K
10080 min Summer	61.242	0.042	0.2	0.1	O K
15 min Winter	62.843	1.643	0.7	4.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	69.560	0.0	17
30 min Summer	46.077	0.0	31
60 min Summer	29.238	0.0	54
120 min Summer	18.017	0.0	88
180 min Summer	13.426	0.0	122
240 min Summer	10.845	0.0	156
360 min Summer	8.002	0.0	222
480 min Summer	6.447	0.0	286
600 min Summer	5.449	0.0	350
720 min Summer	4.747	0.0	414
960 min Summer	3.817	0.0	540
1440 min Summer	2.803	0.0	782
2160 min Summer	2.056	0.0	1148
2880 min Summer	1.648	0.0	1524
4320 min Summer	1.206	0.0	2248
5760 min Summer	0.966	0.0	2944
7200 min Summer	0.812	0.0	3672
8640 min Summer	0.705	0.0	4368
10080 min Summer	0.626	0.0	5096
15 min Winter	69.560	0.0	17

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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	63.443	2.243	0.7	5.3	O K
60 min Winter	63.873	2.673	0.7	6.0	O K
120 min Winter	63.997	2.797	0.7	6.3	Flood Risk
180 min Winter	63.897	2.697	0.7	6.1	O K
240 min Winter	63.709	2.509	0.7	5.7	O K
360 min Winter	63.283	2.083	0.7	5.0	O K
480 min Winter	62.910	1.710	0.7	4.3	O K
600 min Winter	62.714	1.514	0.7	3.9	O K
720 min Winter	62.567	1.367	0.7	3.5	O K
960 min Winter	62.330	1.130	0.6	2.9	O K
1440 min Winter	62.005	0.805	0.5	2.1	O K
2160 min Winter	61.711	0.511	0.4	1.3	O K
2880 min Winter	61.531	0.331	0.3	0.8	O K
4320 min Winter	61.320	0.120	0.2	0.3	O K
5760 min Winter	61.246	0.046	0.2	0.1	O K
7200 min Winter	61.239	0.039	0.2	0.1	O K
8640 min Winter	61.234	0.034	0.1	0.1	O K
10080 min Winter	61.230	0.030	0.1	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	46.077	0.0	31
60 min Winter	29.238	0.0	58
120 min Winter	18.017	0.0	94
180 min Winter	13.426	0.0	132
240 min Winter	10.845	0.0	170
360 min Winter	8.002	0.0	240
480 min Winter	6.447	0.0	304
600 min Winter	5.449	0.0	368
720 min Winter	4.747	0.0	434
960 min Winter	3.817	0.0	560
1440 min Winter	2.803	0.0	808
2160 min Winter	2.056	0.0	1172
2880 min Winter	1.648	0.0	1532
4320 min Winter	1.206	0.0	2248
5760 min Winter	0.966	0.0	2920
7200 min Winter	0.812	0.0	3616
8640 min Winter	0.705	0.0	4280
10080 min Winter	0.626	0.0	5024

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.361	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.032

Time (mins)	Area
From:	To: (ha)
0	4 0.032

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Model Details

Storage is Online Cover Level (m) 64.200

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.29520	Ring Diameter (m)	1.50
Infiltration Coefficient Side (m/hr)	0.29520	Pit Multiplier	1.4
Safety Factor	2.0	Number Required	1
Porosity	0.30	Cap Volume Depth (m)	0.000
Invert Level (m)	61.200	Cap Infiltration Depth (m)	1.650