

RSK LDE		Page 1			
Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR					
Date 25/01/2022 08:24 File Soakaway TP102 detached...	Designed by mrayner Checked by				
Micro Drainage Source Control 2017.1.2					
Summary of Results for 100 year Return Period (+40%)					
Half Drain Time : 1839 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	99.033	0.283	0.0	2.4	O K
30 min Summer	99.127	0.377	0.0	3.2	O K
60 min Summer	99.806	1.056	0.0	4.1	Flood Risk
120 min Summer	100.001	1.251	0.0	5.0	FLOOD
180 min Summer	100.001	1.251	0.0	5.5	FLOOD
240 min Summer	100.002	1.252	0.0	5.8	FLOOD
360 min Summer	100.002	1.252	0.0	6.2	FLOOD
480 min Summer	100.002	1.252	0.0	6.4	FLOOD
600 min Summer	100.002	1.252	0.0	6.6	FLOOD
720 min Summer	100.002	1.252	0.0	6.7	FLOOD
960 min Summer	100.002	1.252	0.0	6.7	FLOOD
1440 min Summer	100.002	1.252	0.0	6.6	FLOOD
2160 min Summer	100.002	1.252	0.0	6.3	FLOOD
2880 min Summer	100.002	1.252	0.0	6.0	FLOOD
4320 min Summer	100.001	1.251	0.0	5.5	FLOOD
5760 min Summer	100.001	1.251	0.0	5.0	FLOOD
7200 min Summer	100.000	1.250	0.0	4.6	FLOOD
8640 min Summer	99.830	1.080	0.0	4.1	Flood Risk
10080 min Summer	99.398	0.648	0.0	3.7	O K
15 min Winter	99.068	0.318	0.0	2.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	118.958	0.0	19		
30 min Summer	79.532	0.0	34		
60 min Summer	50.812	0.0	64		
120 min Summer	31.423	1.5	124		
180 min Summer	23.415	2.0	184		
240 min Summer	18.891	2.4	242		
360 min Summer	13.837	2.7	362		
480 min Summer	11.101	3.0	482		
600 min Summer	9.350	3.1	602		
720 min Summer	8.122	3.2	722		
960 min Summer	6.498	3.3	962		
1440 min Summer	4.738	3.2	1428		
2160 min Summer	3.447	2.9	1748		
2880 min Summer	2.748	2.6	2108		
4320 min Summer	1.992	2.1	2936		
5760 min Summer	1.584	1.6	3744		
7200 min Summer	1.325	1.1	4544		
8640 min Summer	1.145	0.0	5352		
10080 min Summer	1.012	0.0	6056		
15 min Winter	118.958	0.0	19		
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Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR					
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Micro Drainage			Source Control 2017.1.2		
Summary of Results for 100 year Return Period (+40%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	99.344	0.594	0.0	3.6	O K
60 min Winter	100.000	1.250	0.0	4.6	FLOOD
120 min Winter	100.001	1.251	0.0	5.6	FLOOD
180 min Winter	100.002	1.252	0.0	6.1	FLOOD
240 min Winter	100.002	1.252	0.0	6.5	FLOOD
360 min Winter	100.003	1.253	0.0	7.0	FLOOD
480 min Winter	100.003	1.253	0.0	7.3	FLOOD
600 min Winter	100.003	1.253	0.0	7.5	FLOOD
720 min Winter	100.003	1.253	0.0	7.6	FLOOD
960 min Winter	100.004	1.254	0.0	7.8	FLOOD
1440 min Winter	100.004	1.254	0.0	7.8	FLOOD
2160 min Winter	100.003	1.253	0.0	7.5	FLOOD
2880 min Winter	100.003	1.253	0.0	7.1	FLOOD
4320 min Winter	100.002	1.252	0.0	6.4	FLOOD
5760 min Winter	100.001	1.251	0.0	5.6	FLOOD
7200 min Winter	100.001	1.251	0.0	4.9	FLOOD
8640 min Winter	99.915	1.165	0.0	4.2	Flood Risk
10080 min Winter	99.259	0.509	0.0	3.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	79.532	0.0	33		
60 min Winter	50.812	1.2	64		
120 min Winter	31.423	2.2	122		
180 min Winter	23.415	2.7	180		
240 min Winter	18.891	3.1	240		
360 min Winter	13.837	3.6	358		
480 min Winter	11.101	3.9	474		
600 min Winter	9.350	4.1	592		
720 min Winter	8.122	4.2	708		
960 min Winter	6.498	4.4	936		
1440 min Winter	4.738	4.4	1384		
2160 min Winter	3.447	4.0	2012		
2880 min Winter	2.748	3.7	2276		
4320 min Winter	1.992	2.9	3196		
5760 min Winter	1.584	2.2	4088		
7200 min Winter	1.325	1.5	4904		
8640 min Winter	1.145	0.0	5712		
10080 min Winter	1.012	0.0	6552		
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