

RSK LDE			Page 1		
Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR					
Date 25/01/2022 08:14 File Soakaway TP101 small se...		Designed by mrayner Checked by			
Micro Drainage		Source Control 2017.1.2			
Summary of Results for 100 year Return Period (+40%)					
Half Drain Time : 243 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	99.118	0.368	0.2	2.1	O K
30 min Summer	99.595	0.845	0.2	2.7	O K
60 min Summer	100.000	1.250	0.2	3.3	FLOOD
120 min Summer	100.001	1.251	0.2	3.7	FLOOD
180 min Summer	100.001	1.251	0.2	3.8	FLOOD
240 min Summer	100.001	1.251	0.2	3.7	FLOOD
360 min Summer	100.000	1.250	0.2	3.5	FLOOD
480 min Summer	100.000	1.250	0.2	3.4	FLOOD
600 min Summer	100.000	1.250	0.2	3.2	FLOOD
720 min Summer	99.935	1.185	0.2	3.1	Flood Risk
960 min Summer	99.618	0.868	0.2	2.7	O K
1440 min Summer	99.127	0.377	0.2	2.1	O K
2160 min Summer	98.994	0.244	0.2	1.4	O K
2880 min Summer	98.896	0.146	0.2	0.8	O K
4320 min Summer	98.803	0.053	0.2	0.3	O K
5760 min Summer	98.791	0.041	0.1	0.2	O K
7200 min Summer	98.785	0.035	0.1	0.2	O K
8640 min Summer	98.780	0.030	0.1	0.2	O K
10080 min Summer	98.777	0.027	0.1	0.2	O K
15 min Winter	99.232	0.482	0.2	2.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	118.958	0.0	18		
30 min Summer	79.532	0.0	33		
60 min Summer	50.812	1.0	62		
120 min Summer	31.423	1.4	122		
180 min Summer	23.415	1.5	180		
240 min Summer	18.891	1.4	208		
360 min Summer	13.837	1.3	270		
480 min Summer	11.101	1.1	336		
600 min Summer	9.350	0.9	404		
720 min Summer	8.122	0.0	472		
960 min Summer	6.498	0.0	608		
1440 min Summer	4.738	0.0	866		
2160 min Summer	3.447	0.0	1232		
2880 min Summer	2.748	0.0	1584		
4320 min Summer	1.992	0.0	2204		
5760 min Summer	1.584	0.0	2936		
7200 min Summer	1.325	0.0	3672		
8640 min Summer	1.145	0.0	4400		
10080 min Summer	1.012	0.0	5136		
15 min Winter	118.958	0.0	18		
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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	99.953	1.203	0.2	3.1	Flood Risk
60 min Winter	100.001	1.251	0.2	3.8	FLOOD
120 min Winter	100.001	1.251	0.2	4.3	FLOOD
180 min Winter	100.001	1.251	0.2	4.4	FLOOD
240 min Winter	100.001	1.251	0.2	4.4	FLOOD
360 min Winter	100.001	1.251	0.2	4.1	FLOOD
480 min Winter	100.001	1.251	0.2	3.9	FLOOD
600 min Winter	100.001	1.251	0.2	3.7	FLOOD
720 min Winter	100.000	1.250	0.2	3.4	FLOOD
960 min Winter	99.819	1.069	0.2	2.9	Flood Risk
1440 min Winter	99.104	0.354	0.2	2.0	O K
2160 min Winter	98.911	0.161	0.2	0.9	O K
2880 min Winter	98.805	0.055	0.2	0.3	O K
4320 min Winter	98.788	0.038	0.1	0.2	O K
5760 min Winter	98.780	0.030	0.1	0.2	O K
7200 min Winter	98.775	0.025	0.1	0.1	O K
8640 min Winter	98.772	0.022	0.1	0.1	O K
10080 min Winter	98.769	0.019	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	79.532	0.0	32		
60 min Winter	50.812	1.5	62		
120 min Winter	31.423	2.0	118		
180 min Winter	23.415	2.1	176		
240 min Winter	18.891	2.1	230		
360 min Winter	13.837	1.9	290		
480 min Winter	11.101	1.6	364		
600 min Winter	9.350	1.4	440		
720 min Winter	8.122	1.2	514		
960 min Winter	6.498	0.0	658		
1440 min Winter	4.738	0.0	924		
2160 min Winter	3.447	0.0	1276		
2880 min Winter	2.748	0.0	1524		
4320 min Winter	1.992	0.0	2196		
5760 min Winter	1.584	0.0	2936		
7200 min Winter	1.325	0.0	3648		
8640 min Winter	1.145	0.0	4360		
10080 min Winter	1.012	0.0	5008		
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