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Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR																																																																																																																																																																																																																							
Date 25/01/2022 08:13 File Soakaway TP101 large se...			Designed by mrayner Checked by																																																																																																																																																																																																																				
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 268 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>99.149</td><td>0.399</td><td>0.1</td><td>1.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>99.717</td><td>0.967</td><td>0.1</td><td>2.5</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>100.000</td><td>1.250</td><td>0.1</td><td>3.0</td><td>FLOOD</td></tr><tr><td>120 min Summer</td><td>100.001</td><td>1.251</td><td>0.1</td><td>3.4</td><td>FLOOD</td></tr><tr><td>180 min Summer</td><td>100.001</td><td>1.251</td><td>0.1</td><td>3.5</td><td>FLOOD</td></tr><tr><td>240 min Summer</td><td>100.001</td><td>1.251</td><td>0.1</td><td>3.4</td><td>FLOOD</td></tr><tr><td>360 min Summer</td><td>100.001</td><td>1.251</td><td>0.1</td><td>3.3</td><td>FLOOD</td></tr><tr><td>480 min 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Summer	99.717	0.967	0.1	2.5	Flood Risk	60 min Summer	100.000	1.250	0.1	3.0	FLOOD	120 min Summer	100.001	1.251	0.1	3.4	FLOOD	180 min Summer	100.001	1.251	0.1	3.5	FLOOD	240 min Summer	100.001	1.251	0.1	3.4	FLOOD	360 min Summer	100.001	1.251	0.1	3.3	FLOOD	480 min Summer	100.000	1.250	0.1	3.2	FLOOD	600 min Summer	100.000	1.250	0.1	3.0	FLOOD	720 min Summer	100.000	1.250	0.1	2.9	FLOOD	960 min Summer	99.869	1.119	0.1	2.6	Flood Risk	1440 min Summer	99.354	0.604	0.1	2.1	O K	2160 min Summer	99.051	0.301	0.1	1.4	O K	2880 min Summer	98.942	0.192	0.1	0.9	O K	4320 min Summer	98.819	0.069	0.1	0.3	O K	5760 min Summer	98.795	0.045	0.1	0.2	O K	7200 min Summer	98.787	0.037	0.1	0.2	O K	8640 min Summer	98.782	0.032	0.1	0.2	O K	10080 min Summer	98.779	0.029	0.1	0.1	O K	15 min Winter	99.384	0.634	0.1	2.1	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	1.1	62	120 min Summer	31.423	1.5	122	180 min 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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	100.000	1.250	0.1	2.8	FLOOD
60 min Winter	100.001	1.251	0.1	3.4	FLOOD
120 min Winter	100.001	1.251	0.1	3.9	FLOOD
180 min Winter	100.001	1.251	0.1	4.1	FLOOD
240 min Winter	100.001	1.251	0.1	4.1	FLOOD
360 min Winter	100.001	1.251	0.1	3.9	FLOOD
480 min Winter	100.001	1.251	0.1	3.7	FLOOD
600 min Winter	100.001	1.251	0.1	3.5	FLOOD
720 min Winter	100.001	1.251	0.1	3.3	FLOOD
960 min Winter	100.000	1.250	0.1	2.9	FLOOD
1440 min Winter	99.315	0.565	0.1	2.1	O K
2160 min Winter	98.975	0.225	0.1	1.1	O K
2880 min Winter	98.835	0.085	0.1	0.4	O K
4320 min Winter	98.791	0.041	0.1	0.2	O K
5760 min Winter	98.782	0.032	0.1	0.2	O K
7200 min Winter	98.777	0.027	0.1	0.1	O K
8640 min Winter	98.773	0.023	0.1	0.1	O K
10080 min Winter	98.771	0.021	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	79.532	0.9	32		
60 min Winter	50.812	1.5	62		
120 min Winter	31.423	2.0	118		
180 min Winter	23.415	2.2	176		
240 min Winter	18.891	2.2	230		
360 min Winter	13.837	2.0	302		
480 min Winter	11.101	1.8	370		
600 min Winter	9.350	1.6	446		
720 min Winter	8.122	1.4	522		
960 min Winter	6.498	1.0	668		
1440 min Winter	4.738	0.0	940		
2160 min Winter	3.447	0.0	1300		
2880 min Winter	2.748	0.0	1588		
4320 min Winter	1.992	0.0	2196		
5760 min Winter	1.584	0.0	2952		
7200 min Winter	1.325	0.0	3616		
8640 min Winter	1.145	0.0	4408		
10080 min Winter	1.012	0.0	4984		
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