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Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR																																																																																																																																																																																																																							
Date 21/12/2021 12:31 File Soakaway TP101 small se...		Designed by mrayner Checked by																																																																																																																																																																																																																					
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<u>Summary of Results for 30 year Return Period</u> Half Drain Time : 106 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>98.945</td><td>0.195</td><td>0.2</td><td>1.1</td><td>O K</td></tr><tr><td>30 min Summer</td><td>98.997</td><td>0.247</td><td>0.2</td><td>1.4</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.034</td><td>0.284</td><td>0.2</td><td>1.6</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.047</td><td>0.297</td><td>0.2</td><td>1.7</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.042</td><td>0.292</td><td>0.2</td><td>1.7</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.033</td><td>0.283</td><td>0.2</td><td>1.6</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.009</td><td>0.259</td><td>0.2</td><td>1.5</td><td>O K</td></tr><tr><td>480 min Summer</td><td>98.984</td><td>0.234</td><td>0.2</td><td>1.3</td><td>O K</td></tr><tr><td>600 min Summer</td><td>98.961</td><td>0.211</td><td>0.2</td><td>1.2</td><td>O K</td></tr><tr><td>720 min Summer</td><td>98.938</td><td>0.188</td><td>0.2</td><td>1.1</td><td>O K</td></tr><tr><td>960 min Summer</td><td>98.897</td><td>0.147</td><td>0.2</td><td>0.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>98.837</td><td>0.087</td><td>0.2</td><td>0.5</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>98.799</td><td>0.049</td><td>0.2</td><td>0.3</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>98.790</td><td>0.040</td><td>0.1</td><td>0.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>98.780</td><td>0.030</td><td>0.1</td><td>0.2</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>98.774</td><td>0.024</td><td>0.1</td><td>0.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>98.770</td><td>0.020</td><td>0.1</td><td>0.1</td><td>O K</td></tr><tr><td>8640 min 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Summer	98.997	0.247	0.2	1.4	O K	60 min Summer	99.034	0.284	0.2	1.6	O K	120 min Summer	99.047	0.297	0.2	1.7	O K	180 min Summer	99.042	0.292	0.2	1.7	O K	240 min Summer	99.033	0.283	0.2	1.6	O K	360 min Summer	99.009	0.259	0.2	1.5	O K	480 min Summer	98.984	0.234	0.2	1.3	O K	600 min Summer	98.961	0.211	0.2	1.2	O K	720 min Summer	98.938	0.188	0.2	1.1	O K	960 min Summer	98.897	0.147	0.2	0.8	O K	1440 min Summer	98.837	0.087	0.2	0.5	O K	2160 min Summer	98.799	0.049	0.2	0.3	O K	2880 min Summer	98.790	0.040	0.1	0.2	O K	4320 min Summer	98.780	0.030	0.1	0.2	O K	5760 min Summer	98.774	0.024	0.1	0.1	O K	7200 min Summer	98.770	0.020	0.1	0.1	O K	8640 min Summer	98.768	0.018	0.1	0.1	O K	10080 min Summer	98.766	0.016	0.0	0.1	O K	15 min Winter	98.971	0.221	0.2	1.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	65.808	0.0	18	30 min Summer	43.570	0.0	32	60 min Summer	27.653	0.0	60	120 min Summer	17.064	0.0	100	180 min Summer	12.735	0.0	132	240 min Summer	10.303	0.0	166	360 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Date 21/12/2021 12:31 File Soakaway TP101 small se...		Designed by mrayner Checked by			
Micro Drainage			Source Control 2017.1.2		
Summary of Results for 30 year Return Period					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	99.030	0.280	0.2	1.6	O K
60 min Winter	99.078	0.328	0.2	1.9	O K
120 min Winter	99.095	0.345	0.2	2.0	O K
180 min Winter	99.088	0.338	0.2	1.9	O K
240 min Winter	99.074	0.324	0.2	1.8	O K
360 min Winter	99.036	0.286	0.2	1.6	O K
480 min Winter	98.997	0.247	0.2	1.4	O K
600 min Winter	98.960	0.210	0.2	1.2	O K
720 min Winter	98.924	0.174	0.2	1.0	O K
960 min Winter	98.864	0.114	0.2	0.6	O K
1440 min Winter	98.799	0.049	0.2	0.3	O K
2160 min Winter	98.787	0.037	0.1	0.2	O K
2880 min Winter	98.779	0.029	0.1	0.2	O K
4320 min Winter	98.772	0.022	0.1	0.1	O K
5760 min Winter	98.767	0.017	0.1	0.1	O K
7200 min Winter	98.765	0.015	0.0	0.1	O K
8640 min Winter	98.763	0.013	0.0	0.1	O K
10080 min Winter	98.761	0.011	0.0	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	43.570	0.0	32		
60 min Winter	27.653	0.0	60		
120 min Winter	17.064	0.0	114		
180 min Winter	12.735	0.0	142		
240 min Winter	10.303	0.0	180		
360 min Winter	7.597	0.0	256		
480 min Winter	6.121	0.0	328		
600 min Winter	5.173	0.0	394		
720 min Winter	4.507	0.0	458		
960 min Winter	3.624	0.0	578		
1440 min Winter	2.661	0.0	750		
2160 min Winter	1.952	0.0	1104		
2880 min Winter	1.565	0.0	1472		
4320 min Winter	1.145	0.0	2200		
5760 min Winter	0.917	0.0	2936		
7200 min Winter	0.772	0.0	3656		
8640 min Winter	0.670	0.0	4264		
10080 min Winter	0.594	0.0	5072		
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Micro Drainage Source Control 2017.1.2																				
<u>Model Details</u> Storage is Online Cover Level (m) 100.000 <u>Cellular Storage Structure</u> Invert Level (m) 98.750 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.18792 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.18792 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>6.0</td> <td>6.0</td> <td>0.401</td> <td>0.0</td> <td>6.0</td> </tr> <tr> <td>0.400</td> <td>6.0</td> <td>6.0</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	6.0	6.0	0.401	0.0	6.0	0.400	6.0	6.0			
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