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Spring Lodge 172 Chester Road Helsby Cheshire WA6 0AR																																																																																																																																																																																																			
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Summary of Results for 30 year Return Period Half Drain Time : 295 minutes. <table><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><tr><td>15 min Summer</td><td>98.915</td><td>0.165</td><td>0.1</td><td>0.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>98.964</td><td>0.214</td><td>0.1</td><td>1.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.010</td><td>0.260</td><td>0.1</td><td>1.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.048</td><td>0.298</td><td>0.1</td><td>1.7</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.060</td><td>0.310</td><td>0.1</td><td>1.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.061</td><td>0.311</td><td>0.1</td><td>1.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.056</td><td>0.306</td><td>0.1</td><td>1.7</td><td>O K</td></tr><tr><td>480 min Summer</td><td>99.049</td><td>0.299</td><td>0.1</td><td>1.7</td><td>O K</td></tr><tr><td>600 min Summer</td><td>99.040</td><td>0.290</td><td>0.1</td><td>1.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>99.031</td><td>0.281</td><td>0.1</td><td>1.6</td><td>O K</td></tr><tr><td>960 min Summer</td><td>99.011</td><td>0.261</td><td>0.1</td><td>1.5</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>98.972</td><td>0.222</td><td>0.1</td><td>1.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>98.919</td><td>0.169</td><td>0.1</td><td>1.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>98.876</td><td>0.126</td><td>0.1</td><td>0.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>98.819</td><td>0.069</td><td>0.1</td><td>0.4</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>98.798</td><td>0.048</td><td>0.1</td><td>0.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>98.791</td><td>0.041</td><td>0.0</td><td>0.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>98.786</td><td>0.036</td><td>0.0</td><td>0.2</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>65.808</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>43.570</td><td>0.0</td><td>33</td></tr><tr><td>60 min Summer</td><td>27.653</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>17.064</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>12.735</td><td>0.0</td><td>180</td></tr><tr><td>240 min Summer</td><td>10.303</td><td>0.0</td><td>228</td></tr><tr><td>360 min Summer</td><td>7.597</td><td>0.0</td><td>286</td></tr><tr><td>480 min Summer</td><td>6.121</td><td>0.0</td><td>348</td></tr><tr><td>600 min Summer</td><td>5.173</td><td>0.0</td><td>416</td></tr><tr><td>720 min Summer</td><td>4.507</td><td>0.0</td><td>484</td></tr><tr><td>960 min Summer</td><td>3.624</td><td>0.0</td><td>618</td></tr><tr><td>1440 min Summer</td><td>2.661</td><td>0.0</td><td>892</td></tr><tr><td>2160 min Summer</td><td>1.952</td><td>0.0</td><td>1272</td></tr><tr><td>2880 min Summer</td><td>1.565</td><td>0.0</td><td>1616</td></tr><tr><td>4320 min Summer</td><td>1.145</td><td>0.0</td><td>2292</td></tr><tr><td>5760 min Summer</td><td>0.917</td><td>0.0</td><td>2944</td></tr><tr><td>7200 min Summer</td><td>0.772</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>0.670</td><td>0.0</td><td>4408</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	98.915	0.165	0.1	0.9	O K	30 min Summer	98.964	0.214	0.1	1.2	O K	60 min Summer	99.010	0.260	0.1	1.5	O K	120 min Summer	99.048	0.298	0.1	1.7	O K	180 min Summer	99.060	0.310	0.1	1.8	O K	240 min Summer	99.061	0.311	0.1	1.8	O K	360 min Summer	99.056	0.306	0.1	1.7	O K	480 min Summer	99.049	0.299	0.1	1.7	O K	600 min Summer	99.040	0.290	0.1	1.7	O K	720 min Summer	99.031	0.281	0.1	1.6	O K	960 min Summer	99.011	0.261	0.1	1.5	O K	1440 min Summer	98.972	0.222	0.1	1.3	O K	2160 min Summer	98.919	0.169	0.1	1.0	O K	2880 min Summer	98.876	0.126	0.1	0.7	O K	4320 min Summer	98.819	0.069	0.1	0.4	O K	5760 min Summer	98.798	0.048	0.1	0.3	O K	7200 min Summer	98.791	0.041	0.0	0.2	O K	8640 min Summer	98.786	0.036	0.0	0.2	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	33	60 min Summer	27.653	0.0	62	120 min Summer	17.064	0.0	122	180 min Summer	12.735	0.0	180	240 min Summer	10.303	0.0	228	360 min Summer	7.597	0.0	286	480 min Summer	6.121	0.0	348	600 min Summer	5.173	0.0	416	720 min Summer	4.507	0.0	484	960 min Summer	3.624	0.0	618	1440 min Summer	2.661	0.0	892	2160 min Summer	1.952	0.0	1272	2880 min Summer	1.565	0.0	1616	4320 min Summer	1.145	0.0	2292	5760 min Summer	0.917	0.0	2944	7200 min Summer	0.772	0.0	3672	8640 min Summer	0.670	0.0	4408
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Micro Drainage			Source Control 2019.1			
Summary of Results for 30 year Return Period						
	Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
	10080 min Summer	98.782	0.032	0.0	0.2	O K
	15 min Winter	98.936	0.186	0.1	1.1	O K
	30 min Winter	98.991	0.241	0.1	1.4	O K
	60 min Winter	99.045	0.295	0.1	1.7	O K
	120 min Winter	99.091	0.341	0.1	1.9	O K
	180 min Winter	99.108	0.358	0.1	2.0	O K
	240 min Winter	99.113	0.363	0.1	2.1	O K
	360 min Winter	99.106	0.356	0.1	2.0	O K
	480 min Winter	99.095	0.345	0.1	2.0	O K
	600 min Winter	99.083	0.333	0.1	1.9	O K
	720 min Winter	99.069	0.319	0.1	1.8	O K
	960 min Winter	99.038	0.288	0.1	1.6	O K
	1440 min Winter	98.977	0.227	0.1	1.3	O K
	2160 min Winter	98.896	0.146	0.1	0.8	O K
	2880 min Winter	98.835	0.085	0.1	0.5	O K
	4320 min Winter	98.794	0.044	0.1	0.3	O K
	5760 min Winter	98.786	0.036	0.0	0.2	O K
	7200 min Winter	98.780	0.030	0.0	0.2	O K
	8640 min Winter	98.776	0.026	0.0	0.1	O K
	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
	10080 min Summer	0.594	0.0	5136		
	15 min Winter	65.808	0.0	18		
	30 min Winter	43.570	0.0	33		
	60 min Winter	27.653	0.0	62		
	120 min Winter	17.064	0.0	120		
	180 min Winter	12.735	0.0	176		
	240 min Winter	10.303	0.0	232		
	360 min Winter	7.597	0.0	332		
	480 min Winter	6.121	0.0	376		
	600 min Winter	5.173	0.0	452		
	720 min Winter	4.507	0.0	528		
	960 min Winter	3.624	0.0	676		
	1440 min Winter	2.661	0.0	954		
	2160 min Winter	1.952	0.0	1340		
	2880 min Winter	1.565	0.0	1668		
	4320 min Winter	1.145	0.0	2208		
	5760 min Winter	0.917	0.0	2936		
	7200 min Winter	0.772	0.0	3672		
	8640 min Winter	0.670	0.0	4320		
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