

Robert Clark Associates				Page 1																																																																																																																																																																																																									
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<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 103 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 Winter</td><td>5.663</td><td>0.128</td><td>0.7</td><td>4.7</td><td>O K</td></tr><tr><td>30 min Winter</td><td>5.688</td><td>0.153</td><td>0.7</td><td>6.2</td><td>O K</td></tr><tr><td>60 min Winter</td><td>5.709</td><td>0.174</td><td>0.7</td><td>7.6</td><td>O K</td></tr><tr><td>120 min Winter</td><td>5.722</td><td>0.187</td><td>0.7</td><td>8.3</td><td>O K</td></tr><tr><td>180 min Winter</td><td>5.723</td><td>0.188</td><td>0.7</td><td>8.4</td><td>O K</td></tr><tr><td>240 min Winter</td><td>5.721</td><td>0.186</td><td>0.7</td><td>8.3</td><td>O K</td></tr><tr><td>360 min Winter</td><td>5.711</td><td>0.176</td><td>0.7</td><td>7.7</td><td>O K</td></tr><tr><td>480 min 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Micro Drainage Source Control 2016.1		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.750
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	No	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.043

Time (mins)	Area
From:	To: (ha)
0	4 0.043

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Robert Clark Associates		Page 3																								
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<u>Model Details</u> Storage is Online Cover Level (m) 6.065 <u>Porous Car Park Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.04936</td> <td>Width (m)</td> <td>9.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>23.1</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>57.8</td> <td>Slope (1:X)</td> <td>219.0</td> </tr> <tr> <td>Safety Factor</td> <td>4.0</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Invert Level (m)</td> <td>5.535</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.04936	Width (m)	9.0	Membrane Percolation (mm/hr)	1000	Length (m)	23.1	Max Percolation (l/s)	57.8	Slope (1:X)	219.0	Safety Factor	4.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.535	Membrane Depth (m)	0
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