

Robert Clark Associates				Page 1																																																																																																																																																																																																									
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<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 40 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>5.732</td><td>0.092</td><td>0.2</td><td>0.6</td><td>O K</td></tr><tr><td>30 min Winter</td><td>5.749</td><td>0.109</td><td>0.2</td><td>0.9</td><td>O K</td></tr><tr><td>60 min Winter</td><td>5.758</td><td>0.118</td><td>0.3</td><td>1.0</td><td>O K</td></tr><tr><td>120 min Winter</td><td>5.763</td><td>0.123</td><td>0.3</td><td>1.1</td><td>O K</td></tr><tr><td>180 min Winter</td><td>5.761</td><td>0.121</td><td>0.3</td><td>1.1</td><td>O K</td></tr><tr><td>240 min Winter</td><td>5.757</td><td>0.117</td><td>0.3</td><td>1.0</td><td>O K</td></tr><tr><td>360 min Winter</td><td>5.748</td><td>0.108</td><td>0.2</td><td>0.9</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) 0.008

Time (mins)	Area
From: To:	(ha)
0 4	0.008

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<u>Model Details</u> Storage is Online Cover Level (m) 6.170 <u>Porous Car Park Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.04936</td> <td>Width (m)</td> <td>4.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>21.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>23.3</td> <td>Slope (1:X)</td> <td>122.0</td> </tr> <tr> <td>Safety Factor</td> <td>3.0</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>5.640</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.04936	Width (m)	4.0	Membrane Percolation (mm/hr)	1000	Length (m)	21.0	Max Percolation (l/s)	23.3	Slope (1:X)	122.0	Safety Factor	3.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.640	Membrane Depth (m)	0
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