

Odyssey				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 10 year Return Period (+40%)</u> Half Drain Time : 1418 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>6.073</td><td>0.053</td><td>0.4</td><td>22.8</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>6.089</td><td>0.069</td><td>0.4</td><td>29.8</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>6.107</td><td>0.087</td><td>0.4</td><td>37.3</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>6.126</td><td>0.106</td><td>0.4</td><td>45.6</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>6.137</td><td>0.117</td><td>0.4</td><td>50.4</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>6.145</td><td>0.125</td><td>0.4</td><td>53.5</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>6.153</td><td>0.133</td><td>0.4</td><td>57.0</td><td>Flood Risk</td></tr><tr><td>480 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Summer</td><td>10.003</td><td>0.0</td><td>362</td></tr><tr><td>480 min Summer</td><td>7.960</td><td>0.0</td><td>482</td></tr><tr><td>600 min Summer</td><td>6.652</td><td>0.0</td><td>602</td></tr><tr><td>720 min Summer</td><td>5.738</td><td>0.0</td><td>720</td></tr><tr><td>960 min Summer</td><td>4.539</td><td>0.0</td><td>960</td></tr><tr><td>1440 min Summer</td><td>3.269</td><td>0.0</td><td>1196</td></tr><tr><td>2160 min Summer</td><td>2.374</td><td>0.0</td><td>1560</td></tr><tr><td>2880 min Summer</td><td>1.907</td><td>0.0</td><td>1964</td></tr><tr><td>4320 min Summer</td><td>1.430</td><td>0.0</td><td>2808</td></tr><tr><td>5760 min Summer</td><td>1.183</td><td>0.0</td><td>3632</td></tr><tr><td>7200 min Summer</td><td>1.034</td><td>0.0</td><td>4464</td></tr><tr><td>8640 min Summer</td><td>0.933</td><td>0.0</td><td>5272</td></tr><tr><td>10080 min Summer</td><td>0.861</td><td>0.0</td><td>6048</td></tr><tr><td>15 min 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Tuscany House		Stakers Farm, Yapton 19-156			
White Hart Lane		POS A - Infiltration Blanket			
Baskingstoke RG21 4AF		Rev D			
Date 15/12/2020 14:29		Designed by AK			
File POS_A_38		Checked by			
XP Solutions		Source Control 2020.1			
<u>Summary of Results for 10 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.098	0.078	0.4	33.4	Flood Risk
60 min Winter	6.118	0.098	0.4	41.9	Flood Risk
120 min Winter	6.139	0.119	0.4	51.2	Flood Risk
180 min Winter	6.152	0.132	0.4	56.7	Flood Risk
240 min Winter	6.160	0.140	0.4	60.2	Flood Risk
360 min Winter	6.170	0.150	0.4	64.4	Flood Risk
480 min Winter	6.175	0.155	0.4	66.6	Flood Risk
600 min Winter	6.178	0.158	0.4	67.8	Flood Risk
720 min Winter	6.180	0.160	0.4	68.4	Flood Risk
960 min Winter	6.180	0.160	0.4	68.7	Flood Risk
1440 min Winter	6.177	0.157	0.4	67.4	Flood Risk
2160 min Winter	6.171	0.151	0.4	64.9	Flood Risk
2880 min Winter	6.166	0.146	0.4	62.7	Flood Risk
4320 min Winter	6.157	0.137	0.4	58.8	Flood Risk
5760 min Winter	6.149	0.129	0.4	55.2	Flood Risk
7200 min Winter	6.141	0.121	0.4	52.0	Flood Risk
8640 min Winter	6.135	0.115	0.4	49.2	Flood Risk
10080 min Winter	6.129	0.109	0.4	46.8	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	57.683	0.0	33		
60 min Winter	36.448	0.0	64		
120 min Winter	22.639	0.0	122		
180 min Winter	16.928	0.0	180		
240 min Winter	13.676	0.0	240		
360 min Winter	10.003	0.0	356		
480 min Winter	7.960	0.0	472		
600 min Winter	6.652	0.0	590		
720 min Winter	5.738	0.0	702		
960 min Winter	4.539	0.0	926		
1440 min Winter	3.269	0.0	1356		
2160 min Winter	2.374	0.0	1688		
2880 min Winter	1.907	0.0	2136		
4320 min Winter	1.430	0.0	3068		
5760 min Winter	1.183	0.0	3928		
7200 min Winter	1.034	0.0	4760		
8640 min Winter	0.933	0.0	5624		
10080 min Winter	0.861	0.0	6456		
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Tuscany House White Hart Lane Baskingstoke RG21 4AF	Stakers Farm, Yapton 19-156 POS A - Infiltration Blanket Rev D	
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XP Solutions Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 497682 103581 SU 97682 03581
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.140

Time (mins)	Area
From:	To: (ha)
0	4 0.140

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Odyssey		Page 4																
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 POS A - Infiltration Blanket Rev D																	
Date 15/12/2020 14:29 File POS_A_38	Designed by AK Checked by																	
XP Solutions Source Control 2020.1																		
<u>Model Details</u> Storage is Online Cover Level (m) 6.320 <u>Infiltration Blanket Structure</u> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Diameter/Width (m)</td> <td>21.5</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Length (m)</td> <td>21.0</td> </tr> <tr> <td>Porosity</td> <td>0.95</td> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>6.020</td> <td></td> <td></td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	21.5	Safety Factor	2.0	Length (m)	21.0	Porosity	0.95	Cap Volume Depth (m)	0.000	Invert Level (m)	6.020		
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