

Odyssey				Page 1																																																																																																																																																																																																																			
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<u>Summary of Results for 2 year Return Period (+40%)</u> Half Drain Time : 1005 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>0.109</td><td>0.109</td><td>0.6</td><td>22.1</td><td>O K</td></tr><tr><td>30 min Summer</td><td>0.141</td><td>0.141</td><td>0.6</td><td>28.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>0.175</td><td>0.175</td><td>0.6</td><td>35.6</td><td>O K</td></tr><tr><td>120 min Summer</td><td>0.230</td><td>0.230</td><td>0.6</td><td>46.6</td><td>O K</td></tr><tr><td>180 min Summer</td><td>0.261</td><td>0.261</td><td>0.6</td><td>53.0</td><td>O K</td></tr><tr><td>240 min Summer</td><td>0.281</td><td>0.281</td><td>0.6</td><td>56.9</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.301</td><td>0.301</td><td>0.6</td><td>61.0</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.309</td><td>0.309</td><td>0.6</td><td>62.7</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.312</td><td>0.312</td><td>0.6</td><td>63.3</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.311</td><td>0.311</td><td>0.6</td><td>63.1</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.306</td><td>0.306</td><td>0.6</td><td>62.0</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.295</td><td>0.295</td><td>0.6</td><td>59.9</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.280</td><td>0.280</td><td>0.6</td><td>56.9</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.268</td><td>0.268</td><td>0.6</td><td>54.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.250</td><td>0.250</td><td>0.6</td><td>50.6</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.236</td><td>0.236</td><td>0.6</td><td>47.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.224</td><td>0.224</td><td>0.6</td><td>45.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.215</td><td>0.215</td><td>0.6</td><td>43.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.207</td><td>0.207</td><td>0.6</td><td>42.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>0.122</td><td>0.122</td><td>0.6</td><td>24.8</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>53.171</td><td>0.0</td><td>22</td></tr><tr><td>30 min Summer</td><td>34.715</td><td>0.0</td><td>37</td></tr><tr><td>60 min Summer</td><td>21.898</td><td>0.0</td><td>66</td></tr><tr><td>120 min Summer</td><td>14.714</td><td>0.0</td><td>124</td></tr><tr><td>180 min Summer</td><td>11.392</td><td>0.0</td><td>184</td></tr><tr><td>240 min Summer</td><td>9.388</td><td>0.0</td><td>244</td></tr><tr><td>360 min Summer</td><td>7.012</td><td>0.0</td><td>362</td></tr><tr><td>480 min Summer</td><td>5.646</td><td>0.0</td><td>482</td></tr><tr><td>600 min Summer</td><td>4.756</td><td>0.0</td><td>600</td></tr><tr><td>720 min Summer</td><td>4.128</td><td>0.0</td><td>720</td></tr><tr><td>960 min Summer</td><td>3.295</td><td>0.0</td><td>834</td></tr><tr><td>1440 min Summer</td><td>2.407</td><td>0.0</td><td>1082</td></tr><tr><td>2160 min Summer</td><td>1.771</td><td>0.0</td><td>1476</td></tr><tr><td>2880 min Summer</td><td>1.438</td><td>0.0</td><td>1900</td></tr><tr><td>4320 min Summer</td><td>1.097</td><td>0.0</td><td>2724</td></tr><tr><td>5760 min Summer</td><td>0.921</td><td>0.0</td><td>3520</td></tr><tr><td>7200 min Summer</td><td>0.812</td><td>0.0</td><td>4328</td></tr><tr><td>8640 min Summer</td><td>0.739</td><td>0.0</td><td>5104</td></tr><tr><td>10080 min Summer</td><td>0.687</td><td>0.0</td><td>5944</td></tr><tr><td>15 min Winter</td><td>53.171</td><td>0.0</td><td>22</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	0.109	0.109	0.6	22.1	O K	30 min Summer	0.141	0.141	0.6	28.6	O K	60 min Summer	0.175	0.175	0.6	35.6	O K	120 min Summer	0.230	0.230	0.6	46.6	O K	180 min Summer	0.261	0.261	0.6	53.0	O K	240 min Summer	0.281	0.281	0.6	56.9	Flood Risk	360 min Summer	0.301	0.301	0.6	61.0	Flood Risk	480 min Summer	0.309	0.309	0.6	62.7	Flood Risk	600 min Summer	0.312	0.312	0.6	63.3	Flood Risk	720 min Summer	0.311	0.311	0.6	63.1	Flood Risk	960 min Summer	0.306	0.306	0.6	62.0	Flood Risk	1440 min Summer	0.295	0.295	0.6	59.9	Flood Risk	2160 min Summer	0.280	0.280	0.6	56.9	Flood Risk	2880 min Summer	0.268	0.268	0.6	54.3	O K	4320 min Summer	0.250	0.250	0.6	50.6	O K	5760 min Summer	0.236	0.236	0.6	47.8	O K	7200 min Summer	0.224	0.224	0.6	45.4	O K	8640 min Summer	0.215	0.215	0.6	43.5	O K	10080 min Summer	0.207	0.207	0.6	42.0	O K	15 min Winter	0.122	0.122	0.6	24.8	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	53.171	0.0	22	30 min Summer	34.715	0.0	37	60 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Tuscany House		Stakers Farm, Yapton 19-156			
White Hart Lane		POS A - Infiltration Blanket			
Baskingstoke RG21 4AF		Rev B			
Date 05/10/2020 11:22		Designed by AK			
File POS_A Infiltration		Checked by			
XP Solutions		Source Control 2020.1			
<u>Summary of Results for 2 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	0.159	0.159	0.6	32.2	O K
60 min Winter	0.197	0.197	0.6	40.0	O K
120 min Winter	0.259	0.259	0.6	52.6	O K
180 min Winter	0.295	0.295	0.6	59.9	Flood Risk
240 min Winter	0.318	0.318	0.6	64.5	Flood Risk
360 min Winter	0.434	0.434	0.6	69.6	Flood Risk
480 min Winter	0.437	0.437	0.6	71.9	Flood Risk
600 min Winter	0.439	0.439	0.6	72.9	Flood Risk
720 min Winter	0.439	0.439	0.6	73.2	Flood Risk
960 min Winter	0.438	0.438	0.6	72.4	Flood Risk
1440 min Winter	0.433	0.433	0.6	69.2	Flood Risk
2160 min Winter	0.321	0.321	0.6	65.0	Flood Risk
2880 min Winter	0.300	0.300	0.6	60.9	Flood Risk
4320 min Winter	0.266	0.266	0.6	54.0	O K
5760 min Winter	0.238	0.238	0.6	48.2	O K
7200 min Winter	0.213	0.213	0.6	43.3	O K
8640 min Winter	0.192	0.192	0.6	39.0	O K
10080 min Winter	0.174	0.174	0.6	35.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	34.715	0.0	36		
60 min Winter	21.898	0.0	64		
120 min Winter	14.714	0.0	122		
180 min Winter	11.392	0.0	182		
240 min Winter	9.388	0.0	240		
360 min Winter	7.012	0.0	356		
480 min Winter	5.646	0.0	472		
600 min Winter	4.756	0.0	584		
720 min Winter	4.128	0.0	698		
960 min Winter	3.295	0.0	914		
1440 min Winter	2.407	0.0	1156		
2160 min Winter	1.771	0.0	1608		
2880 min Winter	1.438	0.0	2076		
4320 min Winter	1.097	0.0	2944		
5760 min Winter	0.921	0.0	3808		
7200 min Winter	0.812	0.0	4616		
8640 min Winter	0.739	0.0	5440		
10080 min Winter	0.687	0.0	6248		
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Tuscany House White Hart Lane Baskingstoke RG21 4AF	Stakers Farm, Yapton 19-156 POS A - Infiltration Blanket Rev B	
Date 05/10/2020 11:22 File POS_A Infiltration	Designed by AK Checked by	
XP Solutions Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	2
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) 0.227

Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)
0	4 0.154	4	8 0.073

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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 POS A - Infiltration Blanket Rev B	
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Model Details

Storage is Online Cover Level (m) 0.580

Complex Structure

Infiltration Blanket

Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	26.0
Safety Factor	2.0	Length (m)	26.0
Porosity	0.30	Cap Volume Depth (m)	0.330
Invert Level (m)	0.000		

Infiltration Basin

Invert Level (m)	0.430	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	1.00
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	680.0	0.150	728.0

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