

Odyssey				Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 3169 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>0.115</td><td>0.115</td><td>0.0</td><td>2.6</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>0.154</td><td>0.154</td><td>0.0</td><td>3.5</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.198</td><td>0.198</td><td>0.0</td><td>4.5</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.232</td><td>0.232</td><td>0.0</td><td>5.3</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.253</td><td>0.253</td><td>0.0</td><td>5.8</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.267</td><td>0.267</td><td>0.0</td><td>6.1</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.284</td><td>0.284</td><td>0.0</td><td>6.5</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.294</td><td>0.294</td><td>0.0</td><td>6.7</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.301</td><td>0.301</td><td>0.0</td><td>6.9</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.306</td><td>0.306</td><td>0.0</td><td>7.0</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.312</td><td>0.312</td><td>0.0</td><td>7.1</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.315</td><td>0.315</td><td>0.0</td><td>7.2</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.311</td><td>0.311</td><td>0.0</td><td>7.1</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.305</td><td>0.305</td><td>0.0</td><td>6.9</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.297</td><td>0.297</td><td>0.0</td><td>6.8</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.293</td><td>0.293</td><td>0.0</td><td>6.7</td><td>Flood Risk</td></tr><tr><td>7200 min Summer</td><td>0.291</td><td>0.291</td><td>0.0</td><td>6.6</td><td>Flood Risk</td></tr><tr><td>8640 min Summer</td><td>0.290</td><td>0.290</td><td>0.0</td><td>6.6</td><td>Flood Risk</td></tr><tr><td>10080 min Summer</td><td>0.290</td><td>0.290</td><td>0.0</td><td>6.6</td><td>Flood Risk</td></tr><tr><td>15 min Winter</td><td>0.129</td><td>0.129</td><td>0.0</td><td>2.9</td><td>Flood Risk</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>141.164</td><td>0.0</td><td>19</td></tr><tr><td>30 min Summer</td><td>94.700</td><td>0.0</td><td>34</td></tr><tr><td>60 min Summer</td><td>60.903</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>36.128</td><td>0.0</td><td>124</td></tr><tr><td>180 min Summer</td><td>26.473</td><td>0.0</td><td>184</td></tr><tr><td>240 min Summer</td><td>21.126</td><td>0.0</td><td>244</td></tr><tr><td>360 min Summer</td><td>15.214</td><td>0.0</td><td>364</td></tr><tr><td>480 min Summer</td><td>12.016</td><td>0.0</td><td>482</td></tr><tr><td>600 min Summer</td><td>9.993</td><td>0.0</td><td>602</td></tr><tr><td>720 min Summer</td><td>8.590</td><td>0.0</td><td>722</td></tr><tr><td>960 min Summer</td><td>6.756</td><td>0.0</td><td>962</td></tr><tr><td>1440 min Summer</td><td>4.823</td><td>0.0</td><td>1442</td></tr><tr><td>2160 min Summer</td><td>3.462</td><td>0.0</td><td>2160</td></tr><tr><td>2880 min Summer</td><td>2.754</td><td>0.0</td><td>2564</td></tr><tr><td>4320 min Summer</td><td>2.025</td><td>0.0</td><td>3288</td></tr><tr><td>5760 min Summer</td><td>1.648</td><td>0.0</td><td>4088</td></tr><tr><td>7200 min Summer</td><td>1.419</td><td>0.0</td><td>4904</td></tr><tr><td>8640 min Summer</td><td>1.264</td><td>0.0</td><td>5792</td></tr><tr><td>10080 min Summer</td><td>1.153</td><td>0.0</td><td>6648</td></tr><tr><td>15 min 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min Summer	0.290	0.290	0.0	6.6	Flood Risk	15 min Winter	0.129	0.129	0.0	2.9	Flood Risk	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.164	0.0	19	30 min Summer	94.700	0.0	34	60 min Summer	60.903	0.0	64	120 min Summer	36.128	0.0	124	180 min Summer	26.473	0.0	184	240 min Summer	21.126	0.0	244	360 min Summer	15.214	0.0	364	480 min Summer	12.016	0.0	482	600 min Summer	9.993	0.0	602	720 min Summer	8.590	0.0	722	960 min Summer	6.756	0.0	962	1440 min Summer	4.823	0.0	1442	2160 min Summer	3.462	0.0	2160	2880 min Summer	2.754	0.0	2564	4320 min Summer	2.025	0.0	3288	5760 min Summer	1.648	0.0	4088	7200 min Summer	1.419	0.0	4904	8640 min Summer	1.264	0.0	5792	10080 min Summer	1.153	0.0	6648	15 min Winter	141.164	0.0	19
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White Hart Lane		19-156			
Basingstoke RG21 4AF		Plots 3-4			
Date 15/07/2020 10:20		Designed by AK			
File Individual Soakaways.SRCX		Checked by			
Micro Drainage		Source Control 2020.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	0.173	0.173	0.0	3.9	Flood Risk
60 min Winter	0.222	0.222	0.0	5.1	Flood Risk
120 min Winter	0.261	0.261	0.0	5.9	Flood Risk
180 min Winter	0.284	0.284	0.0	6.5	Flood Risk
240 min Winter	0.300	0.300	0.0	6.8	Flood Risk
360 min Winter	0.320	0.320	0.0	7.3	Flood Risk
480 min Winter	0.332	0.332	0.0	7.6	Flood Risk
600 min Winter	0.341	0.341	0.0	7.8	Flood Risk
720 min Winter	0.347	0.347	0.0	7.9	Flood Risk
960 min Winter	0.354	0.354	0.0	8.1	Flood Risk
1440 min Winter	0.360	0.360	0.0	8.2	Flood Risk
2160 min Winter	0.360	0.360	0.0	8.2	Flood Risk
2880 min Winter	0.355	0.355	0.0	8.1	Flood Risk
4320 min Winter	0.344	0.344	0.0	7.8	Flood Risk
5760 min Winter	0.338	0.338	0.0	7.7	Flood Risk
7200 min Winter	0.333	0.333	0.0	7.6	Flood Risk
8640 min Winter	0.329	0.329	0.0	7.5	Flood Risk
10080 min Winter	0.326	0.326	0.0	7.4	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	34		
60 min Winter	60.903	0.0	64		
120 min Winter	36.128	0.0	122		
180 min Winter	26.473	0.0	182		
240 min Winter	21.126	0.0	240		
360 min Winter	15.214	0.0	360		
480 min Winter	12.016	0.0	478		
600 min Winter	9.993	0.0	596		
720 min Winter	8.590	0.0	714		
960 min Winter	6.756	0.0	944		
1440 min Winter	4.823	0.0	1412		
2160 min Winter	3.462	0.0	2092		
2880 min Winter	2.754	0.0	2740		
4320 min Winter	2.025	0.0	3544		
5760 min Winter	1.648	0.0	4432		
7200 min Winter	1.419	0.0	5336		
8640 min Winter	1.264	0.0	6312		
10080 min Winter	1.153	0.0	7256		
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Plots 3-4	
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Micro Drainage Source Control 2020.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
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) 0.010

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.010

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<u>Model Details</u> Storage is Online Cover Level (m) 0.400 <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>3.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Length (m)</td> <td>8.0</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>0.000</td> <td></td> <td></td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Diameter/Width (m)	3.0	Safety Factor	2.0	Length (m)	8.0	Porosity	0.95	Cap Volume Depth (m)	0.000	Invert Level (m)	0.000		
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