

Odyssey				Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 1861 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>0.111</td><td>0.111</td><td>0.1</td><td>4.2</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>0.148</td><td>0.148</td><td>0.1</td><td>5.6</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.189</td><td>0.189</td><td>0.1</td><td>7.2</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.221</td><td>0.221</td><td>0.1</td><td>8.4</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.240</td><td>0.240</td><td>0.1</td><td>9.1</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.252</td><td>0.252</td><td>0.1</td><td>9.5</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.266</td><td>0.266</td><td>0.1</td><td>10.0</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>0.273</td><td>0.273</td><td>0.1</td><td>10.3</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>0.277</td><td>0.277</td><td>0.1</td><td>10.5</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>0.278</td><td>0.278</td><td>0.1</td><td>10.5</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>0.278</td><td>0.278</td><td>0.1</td><td>10.5</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>0.270</td><td>0.270</td><td>0.1</td><td>10.2</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>0.258</td><td>0.258</td><td>0.1</td><td>9.8</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>0.249</td><td>0.249</td><td>0.1</td><td>9.4</td><td>Flood Risk</td></tr><tr><td>4320 min Summer</td><td>0.234</td><td>0.234</td><td>0.1</td><td>8.9</td><td>Flood Risk</td></tr><tr><td>5760 min Summer</td><td>0.223</td><td>0.223</td><td>0.1</td><td>8.4</td><td>Flood Risk</td></tr><tr><td>7200 min 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Summer</td><td>15.214</td><td>0.0</td><td>362</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>1398</td></tr><tr><td>2160 min Summer</td><td>3.462</td><td>0.0</td><td>1708</td></tr><tr><td>2880 min Summer</td><td>2.754</td><td>0.0</td><td>2076</td></tr><tr><td>4320 min Summer</td><td>2.025</td><td>0.0</td><td>2896</td></tr><tr><td>5760 min Summer</td><td>1.648</td><td>0.0</td><td>3744</td></tr><tr><td>7200 min Summer</td><td>1.419</td><td>0.0</td><td>4544</td></tr><tr><td>8640 min Summer</td><td>1.264</td><td>0.0</td><td>5360</td></tr><tr><td>10080 min Summer</td><td>1.153</td><td>0.0</td><td>6160</td></tr><tr><td>15 min 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Risk	10080 min Summer	0.200	0.200	0.1	7.6	Flood Risk	15 min Winter	0.124	0.124	0.1	4.7	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	362	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	1398	2160 min Summer	3.462	0.0	1708	2880 min Summer	2.754	0.0	2076	4320 min Summer	2.025	0.0	2896	5760 min Summer	1.648	0.0	3744	7200 min Summer	1.419	0.0	4544	8640 min Summer	1.264	0.0	5360	10080 min Summer	1.153	0.0	6160	15 min Winter	141.164	0.0	19
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Odyssey		Page 2			
Tuscany House	Stakers Farm, Yapton				
White Hart Lane	19-156				
Basingstoke RG21 4AF	Plots 15-17				
Date 15/07/2020 11:12	Designed by AK				
File Plots 15-17.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	0.166	0.166	0.1	6.3	Flood Risk
60 min Winter	0.212	0.212	0.1	8.0	Flood Risk
120 min Winter	0.249	0.249	0.1	9.4	Flood Risk
180 min Winter	0.270	0.270	0.1	10.2	Flood Risk
240 min Winter	0.284	0.284	0.1	10.7	Flood Risk
360 min Winter	0.300	0.300	0.1	11.3	Flood Risk
480 min Winter	0.309	0.309	0.1	11.7	Flood Risk
600 min Winter	0.314	0.314	0.1	11.9	Flood Risk
720 min Winter	0.317	0.317	0.1	12.0	Flood Risk
960 min Winter	0.319	0.319	0.1	12.0	Flood Risk
1440 min Winter	0.314	0.314	0.1	11.9	Flood Risk
2160 min Winter	0.299	0.299	0.1	11.3	Flood Risk
2880 min Winter	0.286	0.286	0.1	10.8	Flood Risk
4320 min Winter	0.265	0.265	0.1	10.0	Flood Risk
5760 min Winter	0.246	0.246	0.1	9.3	Flood Risk
7200 min Winter	0.229	0.229	0.1	8.7	Flood Risk
8640 min Winter	0.215	0.215	0.1	8.1	Flood Risk
10080 min Winter	0.202	0.202	0.1	7.6	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	358		
480 min Winter	12.016	0.0	476		
600 min Winter	9.993	0.0	592		
720 min Winter	8.590	0.0	708		
960 min Winter	6.756	0.0	936		
1440 min Winter	4.823	0.0	1384		
2160 min Winter	3.462	0.0	1992		
2880 min Winter	2.754	0.0	2248		
4320 min Winter	2.025	0.0	3156		
5760 min Winter	1.648	0.0	4088		
7200 min Winter	1.419	0.0	4968		
8640 min Winter	1.264	0.0	5792		
10080 min Winter	1.153	0.0	6656		
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Odyssey		Page 3
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton 19-156 Plots 15-17	
Date 15/07/2020 11:12 File Plots 15-17.SRCX	Designed by AK Checked by	
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) 0.016

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.016

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Odyssey		Page 4																
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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>20.0</td> </tr> <tr> <td>Porosity</td> <td>0.63</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)	20.0	Porosity	0.63	Cap Volume Depth (m)	0.000	Invert Level (m)	0.000		
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