

Odyssey				Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 790 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>0.248</td><td>0.248</td><td>0.2</td><td>8.7</td><td>Flood Risk</td></tr><tr><td>30 min Summer</td><td>0.294</td><td>0.294</td><td>0.3</td><td>12.3</td><td>Flood Risk</td></tr><tr><td>60 min Summer</td><td>0.338</td><td>0.338</td><td>0.3</td><td>16.1</td><td>Flood Risk</td></tr><tr><td>120 min Summer</td><td>0.369</td><td>0.369</td><td>0.3</td><td>18.9</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>0.385</td><td>0.385</td><td>0.3</td><td>20.4</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>0.394</td><td>0.394</td><td>0.3</td><td>21.3</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>0.402</td><td>0.402</td><td>0.3</td><td>22.0</td><td>Flood Risk</td></tr><tr><td>480 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>480</td></tr><tr><td>600 min Summer</td><td>9.993</td><td>0.0</td><td>562</td></tr><tr><td>720 min Summer</td><td>8.590</td><td>0.0</td><td>612</td></tr><tr><td>960 min Summer</td><td>6.756</td><td>0.0</td><td>730</td></tr><tr><td>1440 min Summer</td><td>4.823</td><td>0.0</td><td>994</td></tr><tr><td>2160 min Summer</td><td>3.462</td><td>0.0</td><td>1404</td></tr><tr><td>2880 min Summer</td><td>2.754</td><td>0.0</td><td>1812</td></tr><tr><td>4320 min Summer</td><td>2.025</td><td>0.0</td><td>2596</td></tr><tr><td>5760 min Summer</td><td>1.648</td><td>0.0</td><td>3344</td></tr><tr><td>7200 min Summer</td><td>1.419</td><td>0.0</td><td>4104</td></tr><tr><td>8640 min Summer</td><td>1.264</td><td>0.0</td><td>4840</td></tr><tr><td>10080 min Summer</td><td>1.153</td><td>0.0</td><td>5552</td></tr><tr><td>15 min 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Tuscany House		Stakers Farm, Yapton - 19-156			
White Hart Lane		Access Road			
Baskingstoke RG21 4AF		Plots 3-8			
Date 15/12/2020 12:07		Designed by AK			
File Acces Road Plots 3-8.SRCX		Checked by			
XP Solutions		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	0.315	0.315	0.3	14.0	Flood Risk
60 min Winter	0.363	0.363	0.3	18.3	Flood Risk
120 min Winter	0.397	0.397	0.3	21.5	Flood Risk
180 min Winter	0.415	0.415	0.3	23.3	Flood Risk
240 min Winter	0.426	0.426	0.3	24.3	Flood Risk
360 min Winter	0.435	0.435	0.3	25.2	Flood Risk
480 min Winter	0.437	0.437	0.3	25.4	Flood Risk
600 min Winter	0.436	0.436	0.3	25.3	Flood Risk
720 min Winter	0.433	0.433	0.3	25.0	Flood Risk
960 min Winter	0.425	0.425	0.3	24.2	Flood Risk
1440 min Winter	0.411	0.411	0.3	22.9	Flood Risk
2160 min Winter	0.388	0.388	0.3	20.7	Flood Risk
2880 min Winter	0.367	0.367	0.3	18.7	Flood Risk
4320 min Winter	0.331	0.331	0.3	15.4	Flood Risk
5760 min Winter	0.303	0.303	0.3	13.0	Flood Risk
7200 min Winter	0.284	0.284	0.2	11.4	Flood Risk
8640 min Winter	0.267	0.267	0.2	10.1	Flood Risk
10080 min Winter	0.254	0.254	0.2	9.2	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.700	0.0	33		
60 min Winter	60.903	0.0	62		
120 min Winter	36.128	0.0	122		
180 min Winter	26.473	0.0	180		
240 min Winter	21.126	0.0	238		
360 min Winter	15.214	0.0	352		
480 min Winter	12.016	0.0	466		
600 min Winter	9.993	0.0	574		
720 min Winter	8.590	0.0	680		
960 min Winter	6.756	0.0	772		
1440 min Winter	4.823	0.0	1070		
2160 min Winter	3.462	0.0	1516		
2880 min Winter	2.754	0.0	1956		
4320 min Winter	2.025	0.0	2768		
5760 min Winter	1.648	0.0	3520		
7200 min Winter	1.419	0.0	4320		
8640 min Winter	1.264	0.0	5024		
10080 min Winter	1.153	0.0	5752		
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Tuscany House White Hart Lane Baskingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 Access Road Plots 3-8	
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XP Solutions		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) 0.041

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.041

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<u>Model Details</u> Storage is Online Cover Level (m) 0.440 <u>Complex Structure</u> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>12.9</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>22.5</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>80.6</td> <td>Slope (1:X)</td> <td>73.2</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</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>0.000</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table> <u>Porous Car Park</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Width (m)</td> <td>4.1</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>26.3</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>30.0</td> <td>Slope (1:X)</td> <td>73.2</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</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>0.307</td> <td>Membrane Depth (m)</td> <td>0</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	12.9	Membrane Percolation (mm/hr)	1000	Length (m)	22.5	Max Percolation (l/s)	80.6	Slope (1:X)	73.2	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	0.000	Membrane Depth (m)	0	Infiltration Coefficient Base (m/hr)	0.00648	Width (m)	4.1	Membrane Percolation (mm/hr)	1000	Length (m)	26.3	Max Percolation (l/s)	30.0	Slope (1:X)	73.2	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	0.307	Membrane Depth (m)	0
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