

Odyssey			Page 1																																																																																																																																																																																																																			
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.15 onwards)																																																																																																																																																																																																																				
Date 20/04/2022 11:40 File As-built_Acces Road Flo...		Designed by WindesPC5 Checked by																																																																																																																																																																																																																				
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 876 minutes. <table><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><tr><td>15 min Summer</td><td>6.559</td><td>0.141</td><td>0.2</td><td>7.6</td><td>O K</td></tr><tr><td>30 min Summer</td><td>6.600</td><td>0.182</td><td>0.2</td><td>10.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>6.643</td><td>0.225</td><td>0.2</td><td>13.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>6.674</td><td>0.256</td><td>0.2</td><td>16.1</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>6.691</td><td>0.273</td><td>0.2</td><td>17.3</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>6.701</td><td>0.283</td><td>0.2</td><td>18.0</td><td>Flood Risk</td></tr><tr><td>360 min Summer</td><td>6.708</td><td>0.290</td><td>0.2</td><td>18.6</td><td>Flood Risk</td></tr><tr><td>480 min Summer</td><td>6.709</td><td>0.291</td><td>0.2</td><td>18.7</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>6.707</td><td>0.289</td><td>0.2</td><td>18.5</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>6.702</td><td>0.284</td><td>0.2</td><td>18.1</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>6.694</td><td>0.276</td><td>0.2</td><td>17.5</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>6.678</td><td>0.260</td><td>0.2</td><td>16.4</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>6.657</td><td>0.239</td><td>0.2</td><td>14.8</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>6.639</td><td>0.221</td><td>0.2</td><td>13.5</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>6.611</td><td>0.193</td><td>0.2</td><td>11.4</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>6.589</td><td>0.171</td><td>0.2</td><td>9.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>6.571</td><td>0.153</td><td>0.2</td><td>8.5</td><td>O 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Summer</td><td>9.993</td><td>0.0</td><td>600</td></tr><tr><td>720 min Summer</td><td>8.590</td><td>0.0</td><td>670</td></tr><tr><td>960 min Summer</td><td>6.756</td><td>0.0</td><td>770</td></tr><tr><td>1440 min Summer</td><td>4.823</td><td>0.0</td><td>1022</td></tr><tr><td>2160 min Summer</td><td>3.462</td><td>0.0</td><td>1424</td></tr><tr><td>2880 min Summer</td><td>2.754</td><td>0.0</td><td>1820</td></tr><tr><td>4320 min Summer</td><td>2.025</td><td>0.0</td><td>2632</td></tr><tr><td>5760 min Summer</td><td>1.648</td><td>0.0</td><td>3400</td></tr><tr><td>7200 min Summer</td><td>1.419</td><td>0.0</td><td>4112</td></tr><tr><td>8640 min Summer</td><td>1.264</td><td>0.0</td><td>4848</td></tr><tr><td>10080 min Summer</td><td>1.153</td><td>0.0</td><td>5552</td></tr><tr><td>15 min Winter</td><td>141.164</td><td>0.0</td><td>19</td></tr></table>					Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	6.559	0.141	0.2	7.6	O K	30 min Summer	6.600	0.182	0.2	10.6	O K	60 min Summer	6.643	0.225	0.2	13.7	O K	120 min Summer	6.674	0.256	0.2	16.1	Flood Risk	180 min Summer	6.691	0.273	0.2	17.3	Flood Risk	240 min Summer	6.701	0.283	0.2	18.0	Flood Risk	360 min Summer	6.708	0.290	0.2	18.6	Flood Risk	480 min Summer	6.709	0.291	0.2	18.7	Flood Risk	600 min Summer	6.707	0.289	0.2	18.5	Flood Risk	720 min Summer	6.702	0.284	0.2	18.1	Flood Risk	960 min Summer	6.694	0.276	0.2	17.5	Flood Risk	1440 min Summer	6.678	0.260	0.2	16.4	Flood Risk	2160 min Summer	6.657	0.239	0.2	14.8	Flood Risk	2880 min Summer	6.639	0.221	0.2	13.5	O K	4320 min Summer	6.611	0.193	0.2	11.4	O K	5760 min Summer	6.589	0.171	0.2	9.8	O K	7200 min Summer	6.571	0.153	0.2	8.5	O K	8640 min Summer	6.557	0.139	0.2	7.5	O K	10080 min Summer	6.545	0.127	0.2	6.6	O K	15 min Winter	6.574	0.156	0.2	8.7	O K	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 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Tuscany House White Hart Lane Basingstoke RG21 4AF			Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.15 onwards)		
Date 20/04/2022 11:40 File As-built_Acces Road Flo...			Designed by WindesPC5 Checked by		
Innovyze			Source Control 2020.1.3		
<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	6.619	0.201	0.2	12.0	O K
60 min Winter	6.668	0.250	0.2	15.6	Flood Risk
120 min Winter	6.704	0.286	0.2	18.3	Flood Risk
180 min Winter	6.724	0.306	0.2	19.7	Flood Risk
240 min Winter	6.735	0.317	0.2	20.6	Flood Risk
360 min Winter	6.745	0.327	0.2	21.3	Flood Risk
480 min Winter	6.748	0.330	0.2	21.5	Flood Risk
600 min Winter	6.747	0.329	0.2	21.5	Flood Risk
720 min Winter	6.744	0.326	0.2	21.2	Flood Risk
960 min Winter	6.733	0.315	0.2	20.4	Flood Risk
1440 min Winter	6.712	0.294	0.2	18.9	Flood Risk
2160 min Winter	6.683	0.265	0.2	16.7	Flood Risk
2880 min Winter	6.656	0.238	0.2	14.7	Flood Risk
4320 min Winter	6.612	0.194	0.2	11.4	O K
5760 min Winter	6.577	0.159	0.2	9.0	O K
7200 min Winter	6.550	0.132	0.2	7.0	O K
8640 min Winter	6.528	0.110	0.2	5.5	O K
10080 min Winter	6.511	0.093	0.2	4.4	O K
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	354		
480 min Winter	12.016	0.0	468		
600 min Winter	9.993	0.0	580		
720 min Winter	8.590	0.0	690		
960 min Winter	6.756	0.0	894		
1440 min Winter	4.823	0.0	1098		
2160 min Winter	3.462	0.0	1556		
2880 min Winter	2.754	0.0	1988		
4320 min Winter	2.025	0.0	2808		
5760 min Winter	1.648	0.0	3576		
7200 min Winter	1.419	0.0	4328		
8640 min Winter	1.264	0.0	5016		
10080 min Winter	1.153	0.0	5656		
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton As Built - Access Road Plots 15-19 (Ch.15 onwards)	
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Innovyze	Source Control 2020.1.3	

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) 0.034

	Time (mins)	Area
From:	To:	(ha)
	0	4 0.034

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Innovyze	Source Control 2020.1.3	

Model Details

Storage is Online Cover Level (m) 6.943

Complex Structure

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	6.0
Membrane Percolation (mm/hr)	1000	Length (m)	23.6
Max Percolation (l/s)	39.3	Slope (1:X)	726.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.418	Cap Volume Depth (m)	0.395

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	6.9	Slope (1:X)	102.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.432	Membrane Depth (m)	0

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	7.5
Membrane Percolation (mm/hr)	1000	Length (m)	5.0
Max Percolation (l/s)	10.4	Slope (1:X)	29.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.447	Membrane Depth (m)	0

Porous Car Park

Infiltration Coefficient Base (m/hr)	0.00612	Width (m)	4.1
Membrane Percolation (mm/hr)	1000	Length (m)	10.4
Max Percolation (l/s)	11.8	Slope (1:X)	347.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.452	Cap Volume Depth (m)	0.395

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