

Milestone Transport Planning				Page 1																																																																																																																																																																																																																			
7 Ancells Court Rye Close, Fleet Hampshire, GU51 2UY																																																																																																																																																																																																																							
Date 05/10/2023 13:08 File GENERAL POROUS PAVING P...		Designed by sturpin Checked by																																																																																																																																																																																																																					
Innovyze		Source Control 2020.1.3																																																																																																																																																																																																																					
Summary of Results for 100 year Return Period (+40%) Half Drain Time : 160 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>99.603</td><td>0.198</td><td>0.3</td><td>2.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>99.635</td><td>0.230</td><td>0.3</td><td>3.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.664</td><td>0.259</td><td>0.3</td><td>3.8</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.683</td><td>0.278</td><td>0.3</td><td>4.3</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.688</td><td>0.283</td><td>0.3</td><td>4.4</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.688</td><td>0.283</td><td>0.3</td><td>4.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.684</td><td>0.279</td><td>0.3</td><td>4.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>99.677</td><td>0.272</td><td>0.3</td><td>4.1</td><td>O K</td></tr><tr><td>600 min Summer</td><td>99.670</td><td>0.265</td><td>0.3</td><td>3.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>99.661</td><td>0.256</td><td>0.3</td><td>3.7</td><td>O K</td></tr><tr><td>960 min Summer</td><td>99.645</td><td>0.240</td><td>0.3</td><td>3.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>99.621</td><td>0.216</td><td>0.3</td><td>2.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>99.594</td><td>0.189</td><td>0.2</td><td>2.0</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>99.572</td><td>0.167</td><td>0.2</td><td>1.6</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>99.542</td><td>0.137</td><td>0.2</td><td>1.1</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>99.521</td><td>0.116</td><td>0.1</td><td>0.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>99.505</td><td>0.100</td><td>0.1</td><td>0.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>99.494</td><td>0.089</td><td>0.1</td><td>0.5</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>99.485</td><td>0.080</td><td>0.1</td><td>0.4</td><td>O K</td></tr><tr><td>15 min Winter</td><td>99.617</td><td>0.212</td><td>0.3</td><td>2.6</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>125.353</td><td>0.0</td><td>18</td></tr><tr><td>30 min Summer</td><td>84.267</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>54.074</td><td>0.0</td><td>62</td></tr><tr><td>120 min Summer</td><td>33.506</td><td>0.0</td><td>116</td></tr><tr><td>180 min Summer</td><td>24.949</td><td>0.0</td><td>144</td></tr><tr><td>240 min Summer</td><td>20.093</td><td>0.0</td><td>176</td></tr><tr><td>360 min Summer</td><td>14.773</td><td>0.0</td><td>244</td></tr><tr><td>480 min Summer</td><td>11.871</td><td>0.0</td><td>312</td></tr><tr><td>600 min Summer</td><td>10.010</td><td>0.0</td><td>380</td></tr><tr><td>720 min Summer</td><td>8.703</td><td>0.0</td><td>446</td></tr><tr><td>960 min Summer</td><td>6.973</td><td>0.0</td><td>576</td></tr><tr><td>1440 min Summer</td><td>5.093</td><td>0.0</td><td>822</td></tr><tr><td>2160 min Summer</td><td>3.711</td><td>0.0</td><td>1188</td></tr><tr><td>2880 min Summer</td><td>2.961</td><td>0.0</td><td>1556</td></tr><tr><td>4320 min Summer</td><td>2.150</td><td>0.0</td><td>2252</td></tr><tr><td>5760 min Summer</td><td>1.711</td><td>0.0</td><td>2992</td></tr><tr><td>7200 min Summer</td><td>1.432</td><td>0.0</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>1.240</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.098</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>125.353</td><td>0.0</td><td>18</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	99.603	0.198	0.3	2.2	O K	30 min Summer	99.635	0.230	0.3	3.0	O K	60 min Summer	99.664	0.259	0.3	3.8	O K	120 min Summer	99.683	0.278	0.3	4.3	O K	180 min Summer	99.688	0.283	0.3	4.4	O K	240 min Summer	99.688	0.283	0.3	4.4	O K	360 min Summer	99.684	0.279	0.3	4.3	O K	480 min Summer	99.677	0.272	0.3	4.1	O K	600 min Summer	99.670	0.265	0.3	3.9	O K	720 min Summer	99.661	0.256	0.3	3.7	O K	960 min Summer	99.645	0.240	0.3	3.3	O K	1440 min Summer	99.621	0.216	0.3	2.7	O K	2160 min Summer	99.594	0.189	0.2	2.0	O K	2880 min Summer	99.572	0.167	0.2	1.6	O K	4320 min Summer	99.542	0.137	0.2	1.1	O K	5760 min Summer	99.521	0.116	0.1	0.8	O K	7200 min Summer	99.505	0.100	0.1	0.6	O K	8640 min Summer	99.494	0.089	0.1	0.5	O K	10080 min Summer	99.485	0.080	0.1	0.4	O K	15 min Winter	99.617	0.212	0.3	2.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	125.353	0.0	18	30 min Summer	84.267	0.0	32	60 min Summer	54.074	0.0	62	120 min Summer	33.506	0.0	116	180 min Summer	24.949	0.0	144	240 min Summer	20.093	0.0	176	360 min Summer	14.773	0.0	244	480 min Summer	11.871	0.0	312	600 min Summer	10.010	0.0	380	720 min Summer	8.703	0.0	446	960 min Summer	6.973	0.0	576	1440 min Summer	5.093	0.0	822	2160 min Summer	3.711	0.0	1188	2880 min Summer	2.961	0.0	1556	4320 min Summer	2.150	0.0	2252	5760 min Summer	1.711	0.0	2992	7200 min Summer	1.432	0.0	3680	8640 min Summer	1.240	0.0	4408	10080 min Summer	1.098	0.0	5144	15 min Winter	125.353	0.0	18
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status																																																																																																																																																																																																																		
15 min Summer	99.603	0.198	0.3	2.2	O K																																																																																																																																																																																																																		
30 min Summer	99.635	0.230	0.3	3.0	O K																																																																																																																																																																																																																		
60 min Summer	99.664	0.259	0.3	3.8	O K																																																																																																																																																																																																																		
120 min Summer	99.683	0.278	0.3	4.3	O K																																																																																																																																																																																																																		
180 min Summer	99.688	0.283	0.3	4.4	O K																																																																																																																																																																																																																		
240 min Summer	99.688	0.283	0.3	4.4	O K																																																																																																																																																																																																																		
360 min Summer	99.684	0.279	0.3	4.3	O K																																																																																																																																																																																																																		
480 min Summer	99.677	0.272	0.3	4.1	O K																																																																																																																																																																																																																		
600 min Summer	99.670	0.265	0.3	3.9	O K																																																																																																																																																																																																																		
720 min Summer	99.661	0.256	0.3	3.7	O K																																																																																																																																																																																																																		
960 min Summer	99.645	0.240	0.3	3.3	O K																																																																																																																																																																																																																		
1440 min Summer	99.621	0.216	0.3	2.7	O K																																																																																																																																																																																																																		
2160 min Summer	99.594	0.189	0.2	2.0	O K																																																																																																																																																																																																																		
2880 min Summer	99.572	0.167	0.2	1.6	O K																																																																																																																																																																																																																		
4320 min Summer	99.542	0.137	0.2	1.1	O K																																																																																																																																																																																																																		
5760 min Summer	99.521	0.116	0.1	0.8	O K																																																																																																																																																																																																																		
7200 min Summer	99.505	0.100	0.1	0.6	O K																																																																																																																																																																																																																		
8640 min Summer	99.494	0.089	0.1	0.5	O K																																																																																																																																																																																																																		
10080 min Summer	99.485	0.080	0.1	0.4	O K																																																																																																																																																																																																																		
15 min Winter	99.617	0.212	0.3	2.6	O K																																																																																																																																																																																																																		
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																																				
15 min Summer	125.353	0.0	18																																																																																																																																																																																																																				
30 min Summer	84.267	0.0	32																																																																																																																																																																																																																				
60 min Summer	54.074	0.0	62																																																																																																																																																																																																																				
120 min Summer	33.506	0.0	116																																																																																																																																																																																																																				
180 min Summer	24.949	0.0	144																																																																																																																																																																																																																				
240 min Summer	20.093	0.0	176																																																																																																																																																																																																																				
360 min Summer	14.773	0.0	244																																																																																																																																																																																																																				
480 min Summer	11.871	0.0	312																																																																																																																																																																																																																				
600 min Summer	10.010	0.0	380																																																																																																																																																																																																																				
720 min Summer	8.703	0.0	446																																																																																																																																																																																																																				
960 min Summer	6.973	0.0	576																																																																																																																																																																																																																				
1440 min Summer	5.093	0.0	822																																																																																																																																																																																																																				
2160 min Summer	3.711	0.0	1188																																																																																																																																																																																																																				
2880 min Summer	2.961	0.0	1556																																																																																																																																																																																																																				
4320 min Summer	2.150	0.0	2252																																																																																																																																																																																																																				
5760 min Summer	1.711	0.0	2992																																																																																																																																																																																																																				
7200 min Summer	1.432	0.0	3680																																																																																																																																																																																																																				
8640 min Summer	1.240	0.0	4408																																																																																																																																																																																																																				
10080 min Summer	1.098	0.0	5144																																																																																																																																																																																																																				
15 min Winter	125.353	0.0	18																																																																																																																																																																																																																				
©1982-2020 Innovyze																																																																																																																																																																																																																							

Milestone Transport Planning					Page 2	
7 Ancells Court Rye Close, Fleet Hampshire, GU51 2UY						
Date 05/10/2023 13:08 File GENERAL POROUS PAVING P...		Designed by sturpin 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	99.653	0.248	0.3	3.5	O K	
60 min Winter	99.686	0.281	0.3	4.4	O K	
120 min Winter	99.710	0.305	0.3	5.0	O K	
180 min Winter	99.714	0.309	0.3	5.1	O K	
240 min Winter	99.713	0.308	0.3	5.1	O K	
360 min Winter	99.706	0.301	0.3	4.9	O K	
480 min Winter	99.695	0.290	0.3	4.6	O K	
600 min Winter	99.682	0.277	0.3	4.3	O K	
720 min Winter	99.669	0.264	0.3	3.9	O K	
960 min Winter	99.645	0.240	0.3	3.3	O K	
1440 min Winter	99.612	0.207	0.3	2.5	O K	
2160 min Winter	99.577	0.172	0.2	1.7	O K	
2880 min Winter	99.551	0.146	0.2	1.2	O K	
4320 min Winter	99.517	0.112	0.1	0.7	O K	
5760 min Winter	99.495	0.090	0.1	0.5	O K	
7200 min Winter	99.481	0.076	0.1	0.3	O K	
8640 min Winter	99.471	0.066	0.1	0.2	O K	
10080 min Winter	99.463	0.058	0.1	0.2	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	84.267	0.0	32			
60 min Winter	54.074	0.0	60			
120 min Winter	33.506	0.0	116			
180 min Winter	24.949	0.0	168			
240 min Winter	20.093	0.0	190			
360 min Winter	14.773	0.0	266			
480 min Winter	11.871	0.0	340			
600 min Winter	10.010	0.0	412			
720 min Winter	8.703	0.0	482			
960 min Winter	6.973	0.0	610			
1440 min Winter	5.093	0.0	854			
2160 min Winter	3.711	0.0	1232			
2880 min Winter	2.961	0.0	1584			
4320 min Winter	2.150	0.0	2292			
5760 min Winter	1.711	0.0	3000			
7200 min Winter	1.432	0.0	3680			
8640 min Winter	1.240	0.0	4408			
10080 min Winter	1.098	0.0	5136			
©1982-2020 Innovyze						

Milestone Transport Planning		Page 3
7 Ancells Court Rye Close, Fleet Hampshire, GU51 2UY		
Date 05/10/2023 13:08 File GENERAL POROUS PAVING P...	Designed by sturpin Checked by	
Innovyze Source Control 2020.1.3		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.100	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.012

Time (mins)		Area
From:	To:	(ha)
0	4	0.012

©1982-2020 Innovyze

Milestone Transport Planning		Page 4																								
7 Ancells Court Rye Close, Fleet Hampshire, GU51 2UY																										
Date 05/10/2023 13:08 File GENERAL POROUS PAVING P...	Designed by sturpin Checked by																									
Innovyze																										
Source Control 2020.1.3																										
Model Details Storage is Online Cover Level (m) 100.000 Porous Car Park Structure <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.02410</td><td>Width (m)</td><td>4.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>21.5</td></tr><tr><td>Max Percolation (l/s)</td><td>23.9</td><td>Slope (1:X)</td><td>95.7</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>99.405</td><td>Cap Volume Depth (m)</td><td>0.350</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.02410	Width (m)	4.0	Membrane Percolation (mm/hr)	1000	Length (m)	21.5	Max Percolation (l/s)	23.9	Slope (1:X)	95.7	Safety Factor	2.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	99.405	Cap Volume Depth (m)	0.350
Infiltration Coefficient Base (m/hr)	0.02410	Width (m)	4.0																							
Membrane Percolation (mm/hr)	1000	Length (m)	21.5																							
Max Percolation (l/s)	23.9	Slope (1:X)	95.7																							
Safety Factor	2.0	Depression Storage (mm)	5																							
Porosity	0.30	Evaporation (mm/day)	3																							
Invert Level (m)	99.405	Cap Volume Depth (m)	0.350																							
©1982-2020 Innovyze																										