

MJA Consulting		Page 1																																																																																																																																																																																																																		
Monarch House Barton Lane OX14 3NB	Westergate & Eastergate Single Permeable Driveway 1:100+40%cc																																																																																																																																																																																																																			
Date 07/03/2018 File TYPICAL SINGLE PERMEABL...	Designed by C.Pendle Checked by																																																																																																																																																																																																																			
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 186 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>99.420</td><td>0.420</td><td>0.5</td><td>4.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>99.528</td><td>0.528</td><td>0.5</td><td>6.3</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.624</td><td>0.624</td><td>0.5</td><td>7.6</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.681</td><td>0.681</td><td>0.5</td><td>8.4</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.679</td><td>0.679</td><td>0.5</td><td>8.4</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.665</td><td>0.665</td><td>0.5</td><td>8.2</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.637</td><td>0.637</td><td>0.5</td><td>7.8</td><td>O K</td></tr><tr><td>480 min 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Summer</td><td>10.302</td><td>0.0</td><td>392</td></tr><tr><td>720 min Summer</td><td>8.963</td><td>0.0</td><td>458</td></tr><tr><td>960 min Summer</td><td>7.189</td><td>0.0</td><td>590</td></tr><tr><td>1440 min Summer</td><td>5.257</td><td>0.0</td><td>840</td></tr><tr><td>2160 min Summer</td><td>3.836</td><td>0.0</td><td>1192</td></tr><tr><td>2880 min Summer</td><td>3.063</td><td>0.0</td><td>1524</td></tr><tr><td>4320 min Summer</td><td>2.226</td><td>0.0</td><td>2204</td></tr><tr><td>5760 min Summer</td><td>1.773</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.487</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.289</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.142</td><td>0.0</td><td>5064</td></tr><tr><td>15 min Winter</td><td>127.204</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	99.420	0.420	0.5	4.8	O K	30 min 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Monarch House Barton Lane OX14 3NB		Westergate & Eastergate Single Permeable Driveway 1:100+40%cc			
Date 07/03/2018 File TYPICAL SINGLE PERMEABL...		Designed by C.Pendle Checked by			
Innovyze		Source Control 2017.1.2			
<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	99.591	0.591	0.5	7.2	O K
60 min Winter	99.705	0.705	0.5	8.7	Flood Risk
120 min Winter	99.782	0.782	0.5	9.8	Flood Risk
180 min Winter	99.790	0.790	0.5	9.9	Flood Risk
240 min Winter	99.770	0.770	0.5	9.6	Flood Risk
360 min Winter	99.730	0.730	0.5	9.1	Flood Risk
480 min Winter	99.683	0.683	0.5	8.4	O K
600 min Winter	99.634	0.634	0.5	7.8	O K
720 min Winter	99.584	0.584	0.5	7.1	O K
960 min Winter	99.486	0.486	0.5	5.7	O K
1440 min Winter	99.314	0.314	0.5	3.4	O K
2160 min Winter	99.148	0.148	0.5	1.1	O K
2880 min Winter	99.112	0.112	0.4	0.7	O K
4320 min Winter	99.082	0.082	0.3	0.4	O K
5760 min Winter	99.066	0.066	0.2	0.2	O K
7200 min Winter	99.055	0.055	0.2	0.2	O K
8640 min Winter	99.049	0.049	0.2	0.1	O K
10080 min Winter	99.046	0.046	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	85.821	0.0	32		
60 min Winter	55.250	0.0	60		
120 min Winter	34.307	0.0	118		
180 min Winter	25.552	0.0	172		
240 min Winter	20.570	0.0	220		
360 min Winter	15.173	0.0	276		
480 min Winter	12.206	0.0	352		
600 min Winter	10.302	0.0	428		
720 min Winter	8.963	0.0	498		
960 min Winter	7.189	0.0	636		
1440 min Winter	5.257	0.0	882		
2160 min Winter	3.836	0.0	1188		
2880 min Winter	3.063	0.0	1496		
4320 min Winter	2.226	0.0	2204		
5760 min Winter	1.773	0.0	2936		
7200 min Winter	1.487	0.0	3632		
8640 min Winter	1.289	0.0	4328		
10080 min Winter	1.142	0.0	5040		
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Innovyze	Source Control 2017.1.2	

Model Details

Storage is Online Cover Level (m) 100.000

Porous Car Park Structure

Infiltration Coefficient Base (m/hr) 0.07200	Width (m) 3.5
Membrane Percolation (mm/hr) 1000	Length (m) 13.0
Max Percolation (l/s) 12.6	Slope (1:X) 100.0
Safety Factor 2.0	Depression Storage (mm) 0
Porosity 0.30	Evaporation (mm/day) 3
Invert Level (m) 99.000	Cap Volume Depth (m) 0.800

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