

MJA Consulting				Page 1	
Monarch House Barton Lane OX14 3NB		Westergate & Eastergate Plots 151, 187 1:100+40%cc			
Date 18/05/2018 File PLOTS 151, 187 DRIVEWAY...		Designed by S.Smith Checked by			
Innovyze		Source Control 2017.1.2			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Half Drain Time : 78 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	99.232	0.232	0.5	2.3	O K
30 min Summer	99.276	0.276	0.5	2.9	O K
60 min Summer	99.303	0.303	0.5	3.3	O K
120 min Summer	99.309	0.309	0.5	3.3	O K
180 min Summer	99.299	0.299	0.5	3.2	O K
240 min Summer	99.284	0.284	0.5	3.0	O K
360 min Summer	99.256	0.256	0.5	2.6	O K
480 min Summer	99.229	0.229	0.5	2.2	O K
600 min Summer	99.205	0.205	0.5	1.9	O K
720 min Summer	99.183	0.183	0.5	1.6	O K
960 min Summer	99.149	0.149	0.5	1.1	O K
1440 min Summer	99.117	0.117	0.4	0.7	O K
2160 min Summer	99.092	0.092	0.3	0.4	O K
2880 min Summer	99.076	0.076	0.3	0.3	O K
4320 min Summer	99.057	0.057	0.2	0.2	O K
5760 min Summer	99.048	0.048	0.2	0.1	O K
7200 min Summer	99.044	0.044	0.1	0.1	O K
8640 min Summer	99.041	0.041	0.1	0.1	O K
10080 min Summer	99.039	0.039	0.1	0.1	O K
15 min Winter	99.254	0.254	0.5	2.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	127.204	0.0	17		
30 min Summer	85.821	0.0	31		
60 min Summer	55.250	0.0	58		
120 min Summer	34.307	0.0	90		
180 min Summer	25.552	0.0	124		
240 min Summer	20.570	0.0	158		
360 min Summer	15.173	0.0	224		
480 min Summer	12.206	0.0	290		
600 min Summer	10.302	0.0	352		
720 min Summer	8.963	0.0	412		
960 min Summer	7.189	0.0	522		
1440 min Summer	5.257	0.0	752		
2160 min Summer	3.836	0.0	1104		
2880 min Summer	3.063	0.0	1468		
4320 min Summer	2.226	0.0	2200		
5760 min Summer	1.773	0.0	2880		
7200 min Summer	1.487	0.0	3568		
8640 min Summer	1.289	0.0	4272		
10080 min Summer	1.142	0.0	5120		
15 min Winter	127.204	0.0	17		
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Innovyze	Source Control 2017.1.2				
Summary of Results for 100 year Return Period (+40%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	99.306	0.306	0.5	3.3	O K
60 min Winter	99.342	0.342	0.5	3.8	O K
120 min Winter	99.347	0.347	0.5	3.8	O K
180 min Winter	99.332	0.332	0.5	3.6	O K
240 min Winter	99.309	0.309	0.5	3.3	O K
360 min Winter	99.264	0.264	0.5	2.7	O K
480 min Winter	99.222	0.222	0.5	2.1	O K
600 min Winter	99.185	0.185	0.5	1.6	O K
720 min Winter	99.155	0.155	0.5	1.2	O K
960 min Winter	99.123	0.123	0.4	0.8	O K
1440 min Winter	99.094	0.094	0.3	0.5	O K
2160 min Winter	99.070	0.070	0.2	0.3	O K
2880 min Winter	99.057	0.057	0.2	0.2	O K
4320 min Winter	99.046	0.046	0.1	0.1	O K
5760 min Winter	99.041	0.041	0.1	0.1	O K
7200 min Winter	99.037	0.037	0.1	0.1	O K
8640 min Winter	99.035	0.035	0.1	0.1	O K
10080 min Winter	99.033	0.033	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	85.821	0.0	31		
60 min Winter	55.250	0.0	58		
120 min Winter	34.307	0.0	96		
180 min Winter	25.552	0.0	134		
240 min Winter	20.570	0.0	172		
360 min Winter	15.173	0.0	242		
480 min Winter	12.206	0.0	308		
600 min Winter	10.302	0.0	368		
720 min Winter	8.963	0.0	422		
960 min Winter	7.189	0.0	522		
1440 min Winter	5.257	0.0	762		
2160 min Winter	3.836	0.0	1108		
2880 min Winter	3.063	0.0	1468		
4320 min Winter	2.226	0.0	2180		
5760 min Winter	1.773	0.0	2872		
7200 min Winter	1.487	0.0	3592		
8640 min Winter	1.289	0.0	4336		
10080 min Winter	1.142	0.0	5024		
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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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