


Cole Easdon Consultants		Page 1
York House, Edison Park Dorcan Way Swindon, SN3 3RB	Private Road Western P... Whitelands Farm Bicester	
Date Feb 2011 File AREA 3 (PRIVATE R...	Designed By TGL Checked By	
Elstree Computing Ltd	Source Control W.12.4	

Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 174 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	100.199	0.199	0.9	8.8	O K
30 min Summer	100.249	0.249	0.9	11.5	O K
60 min Summer	100.290	0.290	0.9	13.6	O K
120 min Summer	100.309	0.309	0.9	14.6	O K
180 min Summer	100.305	0.305	0.9	14.4	O K
240 min Summer	100.296	0.296	0.9	14.0	O K
360 min Summer	100.278	0.278	0.9	13.0	O K
480 min Summer	100.259	0.259	0.9	12.0	O K
600 min Summer	100.241	0.241	0.9	11.0	O K
720 min Summer	100.223	0.223	0.9	10.1	O K
960 min Summer	100.190	0.190	0.9	8.3	O K
1440 min Summer	100.136	0.136	0.9	5.4	O K
2160 min Summer	100.083	0.083	0.9	2.7	O K
2880 min Summer	100.063	0.063	0.8	1.6	O K
4320 min Summer	100.049	0.049	0.6	1.0	O K
5760 min Summer	100.044	0.044	0.5	0.8	O K
7200 min Summer	100.040	0.040	0.4	0.6	O K
8640 min Summer	100.037	0.037	0.4	0.5	O K
10080 min Summer	100.035	0.035	0.3	0.5	O K
15 min Winter	100.222	0.222	0.9	10.0	O K
30 min Winter	100.279	0.279	0.9	13.1	O K
60 min Winter	100.328	0.328	0.9	15.6	O K


Storm Event	Rain (mm/hr)	Time-Peak (mins)
15 min Summer	128.285	18
30 min Summer	84.226	33
60 min Summer	52.662	62
120 min Summer	31.800	120
180 min Summer	23.353	152
240 min Summer	18.644	182
360 min Summer	13.543	248
480 min Summer	10.792	316
600 min Summer	9.043	384
720 min Summer	7.823	450
960 min Summer	6.219	578
1440 min Summer	4.493	822
2160 min Summer	3.241	1148
2880 min Summer	2.568	1472
4320 min Summer	1.847	2188
5760 min Summer	1.461	2928
7200 min Summer	1.217	3672
8640 min Summer	1.048	4400
10080 min Summer	0.923	5008
15 min Winter	128.285	18
30 min Winter	84.226	32
60 min Winter	52.662	60

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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (1/s)	Max Volume (m ³)	Status
120 min Winter	100.355	0.355	0.9	17.1	O K
180 min Winter	100.352	0.352	0.9	16.9	O K
240 min Winter	100.340	0.340	0.9	16.3	O K
360 min Winter	100.314	0.314	0.9	14.9	O K
480 min Winter	100.287	0.287	0.9	13.5	O K
600 min Winter	100.259	0.259	0.9	12.0	O K
720 min Winter	100.232	0.232	0.9	10.5	O K
960 min Winter	100.182	0.182	0.9	7.9	O K
1440 min Winter	100.103	0.103	0.9	3.7	O K
2160 min Winter	100.060	0.060	0.8	1.4	O K
2880 min Winter	100.049	0.049	0.6	1.0	O K
4320 min Winter	100.042	0.042	0.5	0.7	O K
5760 min Winter	100.037	0.037	0.4	0.5	O K
7200 min Winter	100.034	0.034	0.3	0.5	O K
8640 min Winter	100.031	0.031	0.3	0.4	O K
10080 min Winter	100.029	0.029	0.2	0.3	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
120 min Winter	31.800	118
180 min Winter	23.353	170
240 min Winter	18.644	194
360 min Winter	13.543	270
480 min Winter	10.792	344
600 min Winter	9.043	416
720 min Winter	7.823	486
960 min Winter	6.219	616
1440 min Winter	4.493	840
2160 min Winter	3.241	1128
2880 min Winter	2.568	1468
4320 min Winter	1.847	2164
5760 min Winter	1.461	2888
7200 min Winter	1.217	3656
8640 min Winter	1.048	4400
10080 min Winter	0.923	5136

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Model Details

Storage is Online Cover Level (m) 102.000

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.03600	Width (m)	13.3
Membrane Percolation (mm/hr)	1000	Length (m)	13.3
Max Percolation (l/s)	49.1	Slope (1:X)	200.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	100.000	Cap Volume Depth (m)	0.000