

The Civil Engineering Practice					Page 1																																																																																																																																																																																																																			
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 352 minutes. <table><thead><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></thead><tbody><tr><td>15 min Summer</td><td>14.737</td><td>0.937</td><td>0.4</td><td>6.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>15.093</td><td>1.293</td><td>0.4</td><td>9.1</td><td>O K</td></tr><tr><td>60 min Summer</td><td>15.447</td><td>1.647</td><td>0.4</td><td>11.3</td><td>O K</td></tr><tr><td>120 min Summer</td><td>15.745</td><td>1.945</td><td>0.4</td><td>13.2</td><td>O K</td></tr><tr><td>180 min Summer</td><td>15.855</td><td>2.055</td><td>0.4</td><td>13.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>15.881</td><td>2.081</td><td>0.4</td><td>14.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>15.870</td><td>2.070</td><td>0.4</td><td>14.0</td><td>O K</td></tr><tr><td>480 min 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Summer	15.093	1.293	0.4	9.1	O K	60 min Summer	15.447	1.647	0.4	11.3	O K	120 min Summer	15.745	1.945	0.4	13.2	O K	180 min Summer	15.855	2.055	0.4	13.9	O K	240 min Summer	15.881	2.081	0.4	14.1	O K	360 min Summer	15.870	2.070	0.4	14.0	O K	480 min Summer	15.836	2.036	0.4	13.8	O K	600 min Summer	15.790	1.990	0.4	13.5	O K	720 min Summer	15.737	1.937	0.4	13.2	O K	960 min Summer	15.619	1.819	0.4	12.4	O K	1440 min Summer	15.375	1.575	0.4	10.9	O K	2160 min Summer	15.036	1.236	0.4	8.8	O K	2880 min Summer	14.747	0.947	0.4	6.9	O K	4320 min Summer	14.339	0.539	0.4	4.4	O K	5760 min Summer	14.144	0.344	0.4	3.1	O K	7200 min Summer	14.096	0.296	0.3	2.7	O K	8640 min Summer	14.061	0.261	0.3	2.4	O K	10080 min Summer	14.034	0.234	0.3	2.1	O K	15 min Winter	14.873	1.073	0.4	7.7	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	128.238	0.0	21	30 min Summer	86.178	0.0	36	60 min Summer	55.250	0.0	64	120 min Summer	34.177	0.0	122	180 min Summer	25.410	0.0	182	240 min 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Innovyze		Source Control 2020.1			
<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	15.276	1.476	0.4	10.3	O K
60 min Winter	15.681	1.881	0.4	12.8	O K
120 min Winter	16.034	2.234	0.4	15.0	Flood Risk
180 min Winter	16.177	2.377	0.4	15.9	Flood Risk
240 min Winter	16.225	2.425	0.4	16.2	Flood Risk
360 min Winter	16.225	2.425	0.4	16.2	Flood Risk
480 min Winter	16.165	2.365	0.4	15.8	Flood Risk
600 min Winter	16.103	2.303	0.4	15.5	Flood Risk
720 min Winter	16.026	2.226	0.4	15.0	Flood Risk
960 min Winter	15.850	2.050	0.4	13.9	O K
1440 min Winter	15.475	1.675	0.4	11.5	O K
2160 min Winter	14.953	1.153	0.4	8.2	O K
2880 min Winter	14.532	0.732	0.4	5.6	O K
4320 min Winter	14.131	0.331	0.4	3.0	O K
5760 min Winter	14.067	0.267	0.3	2.4	O K
7200 min Winter	14.025	0.225	0.3	2.1	O K
8640 min Winter	13.996	0.196	0.2	1.8	O K
10080 min Winter	13.974	0.174	0.2	1.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	86.178	0.0	35		
60 min Winter	55.250	0.0	64		
120 min Winter	34.177	0.0	120		
180 min Winter	25.410	0.0	178		
240 min Winter	20.436	0.0	234		
360 min Winter	15.037	0.0	342		
480 min Winter	12.081	0.0	392		
600 min Winter	10.185	0.0	464		
720 min Winter	8.854	0.0	542		
960 min Winter	7.093	0.0	694		
1440 min Winter	5.178	0.0	982		
2160 min Winter	3.772	0.0	1368		
2880 min Winter	3.009	0.0	1728		
4320 min Winter	2.184	0.0	2288		
5760 min Winter	1.738	0.0	3000		
7200 min Winter	1.455	0.0	3744		
8640 min Winter	1.260	0.0	4416		
10080 min Winter	1.115	0.0	5144		
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<u>Model Details</u> Storage is Online Cover Level (m) 16.300 <u>Lined Soakaway Structure</u> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">Infiltration Coefficient Base (m/hr)</td> <td style="width: 20%;">0.00000</td> <td style="width: 20%;">Ring Diameter (m)</td> <td style="width: 20%;">2.00</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.72360</td> <td>Pit Multiplier</td> <td>1.4</td> </tr> <tr> <td>Safety Factor</td> <td>4.0</td> <td>Number Required</td> <td>2</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>2.500</td> </tr> <tr> <td>Invert Level (m)</td> <td>13.800</td> <td>Cap Infiltration Depth (m)</td> <td>0.350</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	2.00	Infiltration Coefficient Side (m/hr)	0.72360	Pit Multiplier	1.4	Safety Factor	4.0	Number Required	2	Porosity	0.30	Cap Volume Depth (m)	2.500	Invert Level (m)	13.800	Cap Infiltration Depth (m)	0.350
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