

Shaun Tonge Engineering					Page 1																																																																																																																																																																																																																		
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Date 10/10/2019 13:39 File soakaway 4.SRCX		Designed by Shaun Checked by			
CADS		Source Control 2019.1			
Summary of Results for 30 year Return Period					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	67.082	0.582	0.2	1.3	O K
60 min Winter	67.279	0.779	0.2	1.5	Flood Risk
120 min Winter	67.331	0.831	0.2	1.6	Flood Risk
180 min Winter	67.286	0.786	0.2	1.5	Flood Risk
240 min Winter	67.203	0.703	0.2	1.4	Flood Risk
360 min Winter	67.019	0.519	0.2	1.3	O K
480 min Winter	66.884	0.384	0.2	1.1	O K
600 min Winter	66.836	0.336	0.2	1.0	O K
720 min Winter	66.794	0.294	0.2	0.8	O K
960 min Winter	66.724	0.224	0.1	0.6	O K
1440 min Winter	66.623	0.123	0.1	0.4	O K
2160 min Winter	66.549	0.049	0.1	0.1	O K
2880 min Winter	66.540	0.040	0.1	0.1	O K
4320 min Winter	66.529	0.029	0.1	0.1	O K
5760 min Winter	66.523	0.023	0.0	0.1	O K
7200 min Winter	66.520	0.020	0.0	0.1	O K
8640 min Winter	66.517	0.017	0.0	0.0	O K
10080 min Winter	66.515	0.015	0.0	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	45.942	0.0	31		
60 min Winter	29.238	0.0	58		
120 min Winter	18.069	0.0	96		
180 min Winter	13.484	0.0	134		
240 min Winter	10.903	0.0	172		
360 min Winter	8.058	0.0	244		
480 min Winter	6.499	0.0	312		
600 min Winter	5.497	0.0	380		
720 min Winter	4.793	0.0	444		
960 min Winter	3.858	0.0	570		
1440 min Winter	2.837	0.0	810		
2160 min Winter	2.084	0.0	1100		
2880 min Winter	1.672	0.0	1464		
4320 min Winter	1.225	0.0	2164		
5760 min Winter	0.982	0.0	2936		
7200 min Winter	0.827	0.0	3560		
8640 min Winter	0.718	0.0	4456		
10080 min Winter	0.638	0.0	5024		
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Model Details

Storage is Online Cover Level (m) 67.500

Cellular Storage Structure

Invert Level (m) 66.500 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.21420 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.21420

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	3.0	3.0	0.500	0.0	5.8
0.400	3.0	5.8			

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