

MJA Consulting				Page 1	
Monarch House Barton Lane OX14 3NB		Plots 85 - 90			
Date 08/03/2018 09:40 File Trench SA Plots 85 - 90...		Designed by chrisp Checked by			
Innovyze		Source Control 2017.1.2			
<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 93 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	99.459	0.459	0.6	4.1	O K
30 min Summer	99.584	0.584	0.7	5.3	O K
60 min Summer	99.670	0.670	0.7	6.0	O K
120 min Summer	99.701	0.701	0.7	6.3	O K
180 min Summer	99.690	0.690	0.7	6.2	O K
240 min Summer	99.667	0.667	0.7	6.0	O K
360 min Summer	99.619	0.619	0.7	5.6	O K
480 min Summer	99.573	0.573	0.7	5.2	O K
600 min Summer	99.530	0.530	0.6	4.8	O K
720 min Summer	99.491	0.491	0.6	4.4	O K
960 min Summer	99.421	0.421	0.6	3.8	O K
1440 min Summer	99.312	0.312	0.5	2.8	O K
2160 min Summer	99.198	0.198	0.4	1.8	O K
2880 min Summer	99.123	0.123	0.4	1.1	O K
4320 min Summer	99.050	0.050	0.3	0.5	O K
5760 min Summer	99.040	0.040	0.3	0.4	O K
7200 min Summer	99.034	0.034	0.2	0.3	O K
8640 min Summer	99.029	0.029	0.2	0.3	O K
10080 min Summer	99.026	0.026	0.2	0.2	O K
15 min Winter	99.518	0.518	0.6	4.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	134.746	0.0	18		
30 min Summer	90.474	0.0	32		
60 min Summer	57.877	0.0	60		
120 min Summer	35.655	0.0	90		
180 min Summer	26.413	0.0	126		
240 min Summer	21.237	0.0	160		
360 min Summer	15.626	0.0	228		
480 min Summer	12.548	0.0	296		
600 min Summer	10.575	0.0	362		
720 min Summer	9.191	0.0	428		
960 min Summer	7.358	0.0	558		
1440 min Summer	5.368	0.0	808		
2160 min Summer	3.907	0.0	1168		
2880 min Summer	3.115	0.0	1528		
4320 min Summer	2.259	0.0	2200		
5760 min Summer	1.796	0.0	2936		
7200 min Summer	1.506	0.0	3672		
8640 min Summer	1.304	0.0	4400		
10080 min Summer	1.154	0.0	5112		
15 min Winter	134.746	0.0	18		
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<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	99.662	0.662	0.7	6.0	O K
60 min Winter	99.767	0.767	0.8	6.9	O K
120 min Winter	99.800	0.800	0.8	7.2	O K
180 min Winter	99.782	0.782	0.8	7.0	O K
240 min Winter	99.748	0.748	0.8	6.7	O K
360 min Winter	99.675	0.675	0.7	6.1	O K
480 min Winter	99.606	0.606	0.7	5.5	O K
600 min Winter	99.544	0.544	0.6	4.9	O K
720 min Winter	99.488	0.488	0.6	4.4	O K
960 min Winter	99.393	0.393	0.5	3.5	O K
1440 min Winter	99.252	0.252	0.5	2.3	O K
2160 min Winter	99.118	0.118	0.4	1.1	O K
2880 min Winter	99.050	0.050	0.3	0.4	O K
4320 min Winter	99.036	0.036	0.2	0.3	O K
5760 min Winter	99.029	0.029	0.2	0.3	O K
7200 min Winter	99.024	0.024	0.2	0.2	O K
8640 min Winter	99.021	0.021	0.1	0.2	O K
10080 min Winter	99.019	0.019	0.1	0.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	90.474	0.0	31		
60 min Winter	57.877	0.0	58		
120 min Winter	35.655	0.0	96		
180 min Winter	26.413	0.0	134		
240 min Winter	21.237	0.0	172		
360 min Winter	15.626	0.0	246		
480 min Winter	12.548	0.0	316		
600 min Winter	10.575	0.0	386		
720 min Winter	9.191	0.0	454		
960 min Winter	7.358	0.0	586		
1440 min Winter	5.368	0.0	838		
2160 min Winter	3.907	0.0	1192		
2880 min Winter	3.115	0.0	1468		
4320 min Winter	2.259	0.0	2200		
5760 min Winter	1.796	0.0	2936		
7200 min Winter	1.506	0.0	3584		
8640 min Winter	1.304	0.0	4400		
10080 min Winter	1.154	0.0	5040		
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Model Details

Storage is Online Cover Level (m) 100.000

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr) 0.07200	Trench Width (m) 1.0
Infiltration Coefficient Side (m/hr) 0.07200	Trench Length (m) 30.0
Safety Factor 2.0	Slope (1:X) 0.0
Porosity 0.30	Cap Volume Depth (m) 0.000
Invert Level (m) 99.000	Cap Infiltration Depth (m) 0.000

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