

Paul Basham Associates				Page 0	
Lancaster Court Fareham Hampshire, PO15 5TU		TRENCH SA 09			
Date 17/04/2019		Designed by JB			
File TRENCH 09.Plots 63-68. ...		Checked by RW			
Innovyze		Source Control 2018.1.1			
Summary of Results for 10 year Return Period (+30%)					
Half Drain Time : 46 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	-0.827	0.173	0.4	1.6	O K
30 min Summer	-0.793	0.207	0.4	1.9	O K
60 min Summer	-0.776	0.224	0.5	2.0	O K
120 min Summer	-0.779	0.221	0.5	2.0	O K
180 min Summer	-0.793	0.207	0.4	1.9	O K
240 min Summer	-0.809	0.191	0.4	1.7	O K
360 min Summer	-0.841	0.159	0.4	1.4	O K
480 min Summer	-0.869	0.131	0.4	1.2	O K
600 min Summer	-0.893	0.107	0.4	1.0	O K
720 min Summer	-0.912	0.088	0.4	0.8	O K
960 min Summer	-0.939	0.061	0.4	0.5	O K
1440 min Summer	-0.957	0.043	0.3	0.4	O K
2160 min Summer	-0.967	0.033	0.3	0.3	O K
2880 min Summer	-0.973	0.027	0.2	0.2	O K
4320 min Summer	-0.980	0.020	0.2	0.2	O K
5760 min Summer	-0.984	0.016	0.1	0.1	O K
7200 min Summer	-0.986	0.014	0.1	0.1	O K
8640 min Summer	-0.988	0.012	0.1	0.1	O K
10080 min Summer	-0.989	0.011	0.1	0.1	O K
15 min Winter	-0.803	0.197	0.4	1.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	70.770	0.0	17		
30 min Summer	46.698	0.0	30		
60 min Summer	29.629	0.0	48		
120 min Summer	18.344	0.0	82		
180 min Summer	13.747	0.0	116		
240 min Summer	11.169	0.0	150		
360 min Summer	8.317	0.0	214		
480 min Summer	6.743	0.0	276		
600 min Summer	5.728	0.0	338		
720 min Summer	5.011	0.0	396		
960 min Summer	4.057	0.0	504		
1440 min Summer	3.009	0.0	736		
2160 min Summer	2.231	0.0	1100		
2880 min Summer	1.803	0.0	1468		
4320 min Summer	1.335	0.0	2200		
5760 min Summer	1.078	0.0	2896		
7200 min Summer	0.913	0.0	3648		
8640 min Summer	0.798	0.0	4392		
10080 min Summer	0.711	0.0	5040		
15 min Winter	70.770	0.0	17		
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Summary of Results for 10 year Return Period (+30%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-0.762	0.238	0.5	2.1	O K
60 min Winter	-0.744	0.256	0.5	2.3	O K
120 min Winter	-0.752	0.248	0.5	2.2	O K
180 min Winter	-0.776	0.224	0.5	2.0	O K
240 min Winter	-0.802	0.198	0.4	1.8	O K
360 min Winter	-0.851	0.149	0.4	1.3	O K
480 min Winter	-0.892	0.108	0.4	1.0	O K
600 min Winter	-0.924	0.076	0.4	0.7	O K
720 min Winter	-0.945	0.055	0.4	0.5	O K
960 min Winter	-0.957	0.043	0.3	0.4	O K
1440 min Winter	-0.968	0.032	0.2	0.3	O K
2160 min Winter	-0.976	0.024	0.2	0.2	O K
2880 min Winter	-0.981	0.019	0.1	0.2	O K
4320 min Winter	-0.986	0.014	0.1	0.1	O K
5760 min Winter	-0.988	0.012	0.1	0.1	O K
7200 min Winter	-0.990	0.010	0.1	0.1	O K
8640 min Winter	-0.991	0.009	0.1	0.1	O K
10080 min Winter	-0.992	0.008	0.1	0.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	46.698	0.0	30		
60 min Winter	29.629	0.0	50		
120 min Winter	18.344	0.0	88		
180 min Winter	13.747	0.0	126		
240 min Winter	11.169	0.0	160		
360 min Winter	8.317	0.0	228		
480 min Winter	6.743	0.0	288		
600 min Winter	5.728	0.0	344		
720 min Winter	5.011	0.0	390		
960 min Winter	4.057	0.0	500		
1440 min Winter	3.009	0.0	734		
2160 min Winter	2.231	0.0	1104		
2880 min Winter	1.803	0.0	1472		
4320 min Winter	1.335	0.0	2204		
5760 min Winter	1.078	0.0	2840		
7200 min Winter	0.913	0.0	3672		
8640 min Winter	0.798	0.0	4280		
10080 min Winter	0.711	0.0	5072		
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<p style="text-align: center;"><u>Model Details</u></p> <p style="text-align: center;">Storage is Online Cover Level (m) 0.000</p> <p style="text-align: center;"><u>Trench Soakaway Structure</u></p> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.13104</td> <td>Trench Width (m)</td> <td>2.0</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.13104</td> <td>Trench Length (m)</td> <td>15.0</td> </tr> <tr> <td>Safety Factor</td> <td>3.0</td> <td>Slope (1:X)</td> <td>0.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>0.700</td> </tr> <tr> <td>Invert Level (m)</td> <td>-1.000</td> <td>Cap Infiltration Depth (m)</td> <td>0.700</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.13104	Trench Width (m)	2.0	Infiltration Coefficient Side (m/hr)	0.13104	Trench Length (m)	15.0	Safety Factor	3.0	Slope (1:X)	0.0	Porosity	0.30	Cap Volume Depth (m)	0.700	Invert Level (m)	-1.000	Cap Infiltration Depth (m)	0.700
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