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Willow Cottage Herne Lane Rustington BN16 3EE		WAlberton Farm SA2			
Date 9.6.26 File SA2 calcs 100yr rain.SRCX		Designed by RTFC Checked by			
Micro Drainage		Source Control 2016.1			
Summary of Results for 100 year Return Period (+45%)					
Half Drain Time : 84 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	13.126	1.151	1.8	12.2	O K
30 min Summer	13.306	1.331	2.0	14.1	Flood Risk
60 min Summer	13.433	1.458	2.2	15.4	Flood Risk
120 min Summer	13.528	1.553	2.4	16.4	Flood Risk
180 min Summer	13.552	1.577	2.4	16.7	Flood Risk
240 min Summer	13.546	1.571	2.4	16.6	Flood Risk
360 min Summer	13.495	1.520	2.3	16.1	Flood Risk
480 min Summer	13.430	1.455	2.2	15.4	Flood Risk
600 min Summer	13.364	1.389	2.1	14.7	Flood Risk
720 min Summer	13.302	1.327	2.0	14.0	Flood Risk
960 min Summer	13.135	1.160	1.8	12.3	O K
1440 min Summer	12.909	0.934	1.4	9.9	O K
2160 min Summer	12.706	0.731	1.1	7.7	O K
2880 min Summer	12.578	0.603	0.9	6.4	O K
4320 min Summer	12.457	0.482	0.7	5.1	O K
5760 min Summer	12.381	0.406	0.6	4.3	O K
7200 min Summer	12.329	0.354	0.5	3.7	O K
8640 min Summer	12.290	0.315	0.5	3.3	O K
10080 min Summer	12.260	0.285	0.4	3.0	O K
15 min Winter	13.128	1.153	1.8	12.2	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	164.378	0.0	18		
30 min Summer	100.725	0.0	31		
60 min Summer	61.720	0.0	52		
120 min Summer	37.820	0.0	84		
180 min Summer	28.398	0.0	118		
240 min Summer	23.174	0.0	154		
360 min Summer	17.401	0.0	220		
480 min Summer	14.200	0.0	286		
600 min Summer	12.129	0.0	350		
720 min Summer	10.663	0.0	414		
960 min Summer	8.286	0.0	540		
1440 min Summer	5.807	0.0	782		
2160 min Summer	4.070	0.0	1148		
2880 min Summer	3.163	0.0	1504		
4320 min Summer	2.365	0.0	2248		
5760 min Summer	1.923	0.0	2944		
7200 min Summer	1.639	0.0	3680		
8640 min Summer	1.438	0.0	4408		
10080 min Summer	1.287	0.0	5144		
15 min Winter	164.378	0.0	17		
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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	13.312	1.337	2.0	14.1	Flood Risk
60 min Winter	13.440	1.465	2.2	15.5	Flood Risk
120 min Winter	13.513	1.538	2.4	16.3	Flood Risk
180 min Winter	13.509	1.534	2.4	16.2	Flood Risk
240 min Winter	13.475	1.500	2.3	15.9	Flood Risk
360 min Winter	13.382	1.407	2.2	14.9	Flood Risk
480 min Winter	13.287	1.312	2.0	13.9	O K
600 min Winter	13.200	1.225	1.9	13.0	O K
720 min Winter	13.122	1.147	1.8	12.1	O K
960 min Winter	12.944	0.969	1.5	10.3	O K
1440 min Winter	12.717	0.742	1.1	7.8	O K
2160 min Winter	12.526	0.551	0.8	5.8	O K
2880 min Winter	12.415	0.440	0.7	4.7	O K
4320 min Winter	12.312	0.337	0.5	3.6	O K
5760 min Winter	12.252	0.277	0.4	2.9	O K
7200 min Winter	12.213	0.238	0.4	2.5	O K
8640 min Winter	12.184	0.209	0.3	2.2	O K
10080 min Winter	12.163	0.188	0.3	2.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	100.725	0.0	31		
60 min Winter	61.720	0.0	56		
120 min Winter	37.820	0.0	90		
180 min Winter	28.398	0.0	128		
240 min Winter	23.174	0.0	164		
360 min Winter	17.401	0.0	234		
480 min Winter	14.200	0.0	302		
600 min Winter	12.129	0.0	368		
720 min Winter	10.663	0.0	432		
960 min Winter	8.286	0.0	558		
1440 min Winter	5.807	0.0	808		
2160 min Winter	4.070	0.0	1172		
2880 min Winter	3.163	0.0	1532		
4320 min Winter	2.365	0.0	2252		
5760 min Winter	1.923	0.0	2992		
7200 min Winter	1.639	0.0	3680		
8640 min Winter	1.438	0.0	4408		
10080 min Winter	1.287	0.0	5144		
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<u>Model Details</u> Storage is Online Cover Level (m) 13.600 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Ring Diameter (m)</td> <td>1.80</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.30262</td> <td>Pit Multiplier</td> <td>1.9</td> </tr> <tr> <td>Safety Factor</td> <td>1.5</td> <td>Number Required</td> <td>2</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>11.975</td> <td>Cap Infiltration Depth (m)</td> <td>0.000</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	1.80	Infiltration Coefficient Side (m/hr)	0.30262	Pit Multiplier	1.9	Safety Factor	1.5	Number Required	2	Porosity	0.30	Cap Volume Depth (m)	0.000	Invert Level (m)	11.975	Cap Infiltration Depth (m)	0.000
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