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	Skyview House, Hoe Lane Flansham Geocell G1	
Date 14 March 2019	Designed by	
File Garage geocell.SRCX	Checked by	
Micro Drainage	Source Control 2016.1	

Summary of Results for 100 year Return Period (+40%)

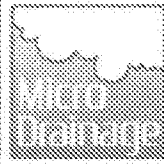
Half Drain Time : 651 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	2.545	0.145	0.0	0.7	O K
30 min Summer	2.593	0.193	0.0	0.9	O K
60 min Summer	2.643	0.243	0.0	1.2	O K
120 min Summer	2.691	0.291	0.0	1.4	O K
180 min Summer	2.714	0.314	0.0	1.5	O K
240 min Summer	2.726	0.326	0.0	1.5	O K
360 min Summer	2.737	0.337	0.0	1.6	O K
480 min Summer	2.739	0.339	0.0	1.6	O K
600 min Summer	2.739	0.339	0.0	1.6	O K
720 min Summer	2.738	0.338	0.0	1.6	O K
960 min Summer	2.733	0.333	0.0	1.6	O K
1440 min Summer	2.719	0.319	0.0	1.5	O K
2160 min Summer	2.696	0.296	0.0	1.4	O K
2880 min Summer	2.672	0.272	0.0	1.3	O K
4320 min Summer	2.629	0.229	0.0	1.1	O K
5760 min Summer	2.593	0.193	0.0	0.9	O K
7200 min Summer	2.563	0.163	0.0	0.8	O K
8640 min Summer	2.537	0.137	0.0	0.7	O K
10080 min Summer	2.516	0.116	0.0	0.6	O K
15 min Winter	2.562	0.162	0.0	0.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	124.633	0.0	19
30 min Summer	83.789	0.0	34
60 min Summer	53.779	0.0	64
120 min Summer	33.337	0.0	122
180 min Summer	24.832	0.0	182
240 min Summer	20.006	0.0	242
360 min Summer	14.706	0.0	360
480 min Summer	11.818	0.0	456
600 min Summer	9.966	0.0	506
720 min Summer	8.665	0.0	570
960 min Summer	6.943	0.0	694
1440 min Summer	5.071	0.0	968
2160 min Summer	3.696	0.0	1384
2880 min Summer	2.949	0.0	1788
4320 min Summer	2.142	0.0	2592
5760 min Summer	1.705	0.0	3344
7200 min Summer	1.427	0.0	4104
8640 min Summer	1.235	0.0	4840
10080 min Summer	1.093	0.0	5544
15 min Winter	124.633	0.0	19

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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	2.616	0.216	0.0	1.0	O K
60 min Winter	2.673	0.273	0.0	1.3	O K
120 min Winter	2.728	0.328	0.0	1.6	O K
180 min Winter	2.755	0.355	0.0	1.7	O K
240 min Winter	2.770	0.370	0.0	1.8	O K
360 min Winter	2.785	0.385	0.0	1.8	O K
480 min Winter	2.790	0.390	0.0	1.9	O K
600 min Winter	2.789	0.389	0.0	1.8	O K
720 min Winter	2.786	0.386	0.0	1.8	O K
960 min Winter	2.780	0.380	0.0	1.8	O K
1440 min Winter	2.760	0.360	0.0	1.7	O K
2160 min Winter	2.725	0.325	0.0	1.5	O K
2880 min Winter	2.690	0.290	0.0	1.4	O K
4320 min Winter	2.629	0.229	0.0	1.1	O K
5760 min Winter	2.578	0.178	0.0	0.8	O K
7200 min Winter	2.537	0.137	0.0	0.7	O K
8640 min Winter	2.504	0.104	0.0	0.5	O K
10080 min Winter	2.478	0.078	0.0	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	83.789	0.0	33		
60 min Winter	53.779	0.0	62		
120 min Winter	33.337	0.0	120		
180 min Winter	24.832	0.0	178		
240 min Winter	20.006	0.0	236		
360 min Winter	14.706	0.0	350		
480 min Winter	11.818	0.0	460		
600 min Winter	9.966	0.0	562		
720 min Winter	8.665	0.0	598		
960 min Winter	6.943	0.0	740		
1440 min Winter	5.071	0.0	1052		
2160 min Winter	3.696	0.0	1492		
2880 min Winter	2.949	0.0	1932		
4320 min Winter	2.142	0.0	2764		
5760 min Winter	1.705	0.0	3520		
7200 min Winter	1.427	0.0	4256		
8640 min Winter	1.235	0.0	5008		
10080 min Winter	1.093	0.0	5648		
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<u>Rainfall Details</u>								
Rainfall Model	F5R	Winter Storms Yes						
Return Period (years)	100	Cv (Summer) 0.750						
Region	England and Wales	Cv (Winter) 0.840						
M5-60 (mm)	19.000	Shortest Storm (mins) 15						
Ratio R	0.350	Longest Storm (mins) 10080						
Summer Storms	Yes	Climate Change % +40						
<u>Time Area Diagram</u>								
Total Area (ha) 0.003								
<table border="0"> <tr> <td>Time (mins)</td> <td>Area</td> </tr> <tr> <td>From: To:</td> <td>(ha)</td> </tr> <tr> <td>0</td> <td>4 0.003</td> </tr> </table>			Time (mins)	Area	From: To:	(ha)	0	4 0.003
Time (mins)	Area							
From: To:	(ha)							
0	4 0.003							
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<u>Model Details</u>		
Storage is Online Cover Level (m) 3.300		
<u>Cellular Storage Structure</u>		
Invert Level (m) 2.400		
Infiltration Coefficient Base (m/hr) 0.02047		
Infiltration Coefficient Side (m/hr) 0.02047		
Safety Factor 2.0		
Porosity 0.95		
Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	5.0	5.0
0.400	5.0	9.8
Depth (m)	Area (m ²)	Inf. Area (m ²)
0.500	0.0	9.8
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