

ABMH					Page 1
1 The Grove Felpham West Sussex PO22 7EY			Fieldings Hoe Lane		
Date 19/06/2019 13:36 File FC2825 Fieldings.srcx			Designed by MH Checked by		
Micro Drainage			Source Control 2017.1.2		
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Summer	9.674	0.674	0.1	0.2	○ K
30 min Summer	9.834	0.834	0.1	0.3	○ K
60 min Summer	9.931	0.931	0.1	0.3	Flood Risk
120 min Summer	9.956	0.956	0.1	0.3	Flood Risk
180 min Summer	9.917	0.917	0.1	0.3	Flood Risk
240 min Summer	9.861	0.861	0.1	0.3	○ K
360 min Summer	9.759	0.759	0.1	0.2	○ K
480 min Summer	9.671	0.671	0.1	0.2	○ K
600 min Summer	9.598	0.598	0.0	0.2	○ K
720 min Summer	9.536	0.536	0.0	0.2	○ K
960 min Summer	9.437	0.437	0.0	0.1	○ K
1440 min Summer	9.308	0.308	0.0	0.1	○ K
2160 min Summer	9.201	0.201	0.0	0.1	○ K
2880 min Summer	9.143	0.143	0.0	0.0	○ K
4320 min Summer	9.084	0.084	0.0	0.0	○ K
5760 min Summer	9.056	0.056	0.0	0.0	○ K
7200 min Summer	9.041	0.041	0.0	0.0	○ K
8640 min Summer	9.031	0.031	0.0	0.0	○ K
10080 min Summer	9.025	0.025	0.0	0.0	○ K
15 min Winter	9.762	0.762	0.1	0.2	○ K
30 min Winter	9.951	0.951	0.1	0.3	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
15 min Summer	125.386	0.0	0.2	17	
30 min Summer	84.735	0.0	0.3	30	
60 min Summer	54.663	0.0	0.4	48	
120 min Summer	34.022	0.0	0.5	82	
180 min Summer	25.377	0.0	0.6	116	
240 min Summer	20.451	0.0	0.6	150	
360 min Summer	15.092	0.0	0.7	216	
480 min Summer	12.149	0.0	0.7	280	
600 min Summer	10.258	0.0	0.8	342	
720 min Summer	8.928	0.0	0.8	404	
960 min Summer	7.165	0.0	0.9	522	
1440 min Summer	5.244	0.0	0.9	764	
2160 min Summer	3.829	0.0	1.0	1124	
2880 min Summer	3.060	0.0	1.1	1472	
4320 min Summer	2.226	0.0	1.2	2204	
5760 min Summer	1.773	0.0	1.3	2936	
7200 min Summer	1.488	0.0	1.3	3672	
8640 min Summer	1.290	0.0	1.4	4400	
10080 min Summer	1.143	0.0	1.4	5080	
15 min Winter	125.386	0.0	0.3	17	
30 min Winter	84.735	0.0	0.4	30	
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ABMH		Page 2			
1 The Grove Felpham West Sussex PO22 7EY	Fieldings Hoe Lane				
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<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
60 min Winter	10.058	1.058	0.1	0.3	Flood Risk
120 min Winter	10.067	1.067	0.1	0.3	Flood Risk
180 min Winter	9.998	0.998	0.1	0.3	Flood Risk
240 min Winter	9.913	0.913	0.1	0.3	Flood Risk
360 min Winter	9.762	0.762	0.1	0.2	O K
480 min Winter	9.640	0.640	0.0	0.2	O K
600 min Winter	9.544	0.544	0.0	0.2	O K
720 min Winter	9.466	0.466	0.0	0.1	O K
960 min Winter	9.351	0.351	0.0	0.1	O K
1440 min Winter	9.219	0.219	0.0	0.1	O K
2160 min Winter	9.127	0.127	0.0	0.0	O K
2880 min Winter	9.084	0.084	0.0	0.0	O K
4320 min Winter	9.047	0.047	0.0	0.0	O K
5760 min Winter	9.031	0.031	0.0	0.0	O K
7200 min Winter	9.023	0.023	0.0	0.0	O K
8640 min Winter	9.018	0.018	0.0	0.0	O K
10080 min Winter	9.015	0.015	0.0	0.0	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)	
60 min Winter	54.663	0.0	0.5	50	
120 min Winter	34.922	0.0	0.6	88	
180 min Winter	25.377	0.0	0.6	124	
240 min Winter	20.451	0.0	0.7	160	
360 min Winter	15.092	0.0	0.8	228	
480 min Winter	12.149	0.0	0.8	294	
600 min Winter	10.258	0.0	0.9	356	
720 min Winter	8.928	0.0	0.9	418	
960 min Winter	7.165	0.0	1.0	540	
1440 min Winter	5.244	0.0	1.1	778	
2160 min Winter	3.829	0.0	1.2	1124	
2880 min Winter	3.060	0.0	1.2	1472	
4320 min Winter	2.226	0.0	1.3	2204	
5760 min Winter	1.773	0.0	1.4	2920	
7200 min Winter	1.488	0.0	1.5	3592	
8640 min Winter	1.290	0.0	1.6	4400	
10080 min Winter	1.143	0.0	1.6	5040	
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ABMH		Page 3
1 The Grove Felpham West Sussex PO22 7EY	Fieldings Hoe Lane	
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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.300	Shortest Storm (mins)	15
Ratio R	0.339	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.001

Time (mins)	Area
From:	To: (ha)
0	4 0.001

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ABMH		Page 4
1 The Grove Felpham West Sussex PO22 7EY	Fieldings Hoe Lane	
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Model Details

Storage is Online Cover Level (m) 10.200

Tank or Pond Structure

Invert Level (m) 9.000

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	0.3	0.700	0.3	1.400	0.0	2.100	0.0
0.100	0.3	0.800	0.3	1.500	0.0	2.200	0.0
0.200	0.3	0.900	0.3	1.600	0.0	2.300	0.0
0.300	0.3	1.000	0.3	1.700	0.0	2.400	0.0
0.400	0.3	1.100	0.3	1.800	0.0	2.500	0.0
0.500	0.3	1.200	0.3	1.900	0.0		
0.600	0.3	1.201	0.0	2.000	0.0		

Orifice Outflow Control

Diameter (m) 0.006 Discharge Coefficient 0.500 Invert Level (m) 9.000

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