


ACO Water Management		Page 1
ACO Business Park Hitchin Road Bedfordshire SG17 5TE	Canterbury	
Date 01/09/2019 File Canterbury 01-09-19.MDX	Designed by Dave Dunn Checked by	
Micro Drainage	Network 2019.1	

Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 7
Number of Online Controls 1 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.378
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 26.250 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
Analysis Timestep 2.5 Second Increment (Extended)
DTS Status ON
DVD Status ON
Inertia Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
720, 960, 1440, 2160, 2880, 4320, 5760,
7200, 8640, 10080
Return Period(s) (years) 100
Climate Change (%) 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	1	15 Winter	100	+40%	100/15 Summer	100/15 Summer		
2.000	2	30 Winter	100	+40%	100/15 Summer			
3.000	3	30 Winter	100	+40%	100/15 Summer			
4.000	4	30 Winter	100	+40%	100/15 Summer			
5.000	5	15 Winter	100	+40%	100/15 Summer			
1.001	6	30 Winter	100	+40%	100/15 Summer			
6.000	7	1440 Winter	100	+40%	100/15 Summer			
7.000	8	1440 Winter	100	+40%	100/15 Summer			
8.000	9	15 Winter	100	+40%				
1.002	9	1440 Winter	100	+40%	100/15 Summer			
9.000	10	1440 Winter	100	+40%	100/15 Summer			
10.000	12	15 Winter	100	+40%	100/15 Summer			
9.001	11	1440 Winter	100	+40%	100/15 Summer			
11.000	12	1440 Winter	100	+40%	100/60 Winter			
12.000	15	15 Winter	100	+40%	100/15 Summer			
11.001	13	1440 Winter	100	+40%	100/30 Summer			
1.003	14	1440 Winter	100	+40%	100/15 Summer			
1.004	15	1440 Winter	100	+40%	100/15 Summer			

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PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	1	5.307	0.799	7.197	1.70	54.0	FLOOD	5
2.000	2	4.631	0.260	0.000	1.04	17.1	SURCHARGED	
3.000	3	4.642	0.213	0.000	0.96	15.2	SURCHARGED	
4.000	4	4.684	0.311	0.000	0.93	15.3	SURCHARGED	
5.000	5	4.973	0.606	0.000	1.81	24.6	SURCHARGED	
1.001	6	4.601	0.376	0.000	1.34	88.3	SURCHARGED	
6.000	7	4.478	0.339	0.000	0.10	1.3	SURCHARGED	
7.000	8	4.478	0.286	0.000	0.19	2.5	SURCHARGED	
8.000	9	4.973	-0.127	0.000	1.15	37.8	OK	
1.002	9	4.477	0.457	0.000	0.26	14.8	SURCHARGED	
9.000	10	4.477	0.257	0.000	0.07	2.3	SURCHARGED	
10.000	12	5.214	0.114	0.000	2.00	30.1	FLOOD RISK*	
9.001	11	4.477	0.457	0.000	0.08	4.5	SURCHARGED	
11.000	12	4.478	0.266	0.000	0.04	3.5	SURCHARGED	
12.000	15	5.114	0.014	0.000	1.42	59.2	FLOOD RISK*	
11.001	13	4.477	0.382	0.000	0.07	4.2	SURCHARGED	
1.003	14	4.477	0.477	0.000	0.19	10.4	SURCHARGED	
1.004	15	4.486	0.530	0.000	0.04	3.7	SURCHARGED	