1 year Return Period 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 Coeffiecient	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	1
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	0.438
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	30, 30, 30

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	1	15 minute 1 year Summer I+30%	23.765	22.144	-0.081	0.000	0.73
1.001	1	15 minute 1 year Winter I+30%	23.600	20.654	-0.006	0.000	0.49
1.002	2	15 minute 1 year Winter I+30%	23.270	20.622	0.172	0.000	1.23
1.003	3	30 minute 1 year Winter I+30%	23.270	22.117	-0.103	0.000	0.21
2.000	5	15 minute 1 year Summer I+30%	23.750	21.677	-0.103	0.000	0.21
2.001	4	15 minute 1 year Summer I+30%	23.760	21.623	-0.112	0.000	0.14
1.004	5	120 minute 1 year Summer I+30%	23.240	21.315	0.103	0.000	0.20
1.005	6	120 minute 1 year Summer I+30%	21.500	21.299	0.354	0.000	0.22
1.006	7	120 minute 1 year Summer I+30%	21.500	21.275	0.790	0.000	0.74

PN	US/MH Name	Overflow (l/s)	Discharge Vol (m³)	Pipe Flow (l/s)	Status
1.000	1		10.787	34.9	OK
1.001	1		12.081	30.3	OK
1.002	2		12.081	13.0	SURCHARGED

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

PN	US/MH Name	Overflow (l/s)	Discharge Vol (m³)	Pipe Flow (l/s)	Status
1.003	3		15.588	13.0	OK
2.000	5		0.811	2.6	OK
2.001	4		2.190	5.1	OK
1.004	5		27.350	14.3	SURCHARGED
1.005	6		39.832	21.5	FLOOD RISK
1.006	7		38.478	21.5	FLOOD RISK

30 year Return Period 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 Coeffiecient	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	1
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 0.438
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	30, 30, 30

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	1	15 minute 30 year Summer I+30%	23.765	22.487	0.262	0.000	1.80
1.001	1	15 minute 30 year Winter I+30%	23.600	21.722	1.062	0.000	1.18
1.002	2	15 minute 30 year Winter I+30%	23.270	21.655	1.205	0.000	2.65
1.003	3	30 minute 30 year Summer I+30%	23.270	22.141	-0.079	0.000	0.46
2.000	5	15 minute 30 year Summer I+30%	23.750	21.707	-0.073	0.000	0.53
2.001	4	15 minute 30 year Summer I+30%	23.760	21.652	-0.083	0.000	0.41
1.004	5	120 minute 30 year Summer I+30%	23.240	21.492	0.280	0.000	0.39
1.005	6	120 minute 30 year Summer I+30%	21.500	21.430	0.485	0.000	0.46
1.006	7	120 minute 30 year Summer I+30%	21.500	21.319	0.834	0.000	1.51

PN	US/MH Name	Overflow (l/s)	Discharge Vol (m³)	Pipe Flow (l/s)	Status
1.000	1		26.492	86.1	SURCHARGED
1.001	1		29.671	72.4	SURCHARGED
1.002	2		29.671	28.0	SURCHARGED

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Overflow (l/s)	Discharge Vol (m³)	Pipe Flow (l/s)	Status
1.003	3		33.964	28.0	OK
2.000	5		1.992	6.4	OK
2.001	4		5.378	14.8	OK
1.004	5		64.910	28.8	SURCHARGED
1.005	6		97.126	43.6	FLOOD RISK
1.006	7		95.772	43.6	FLOOD RISK

100 year Return Period 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 Coeffiecient	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	1
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 0.438
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	30, 30, 30

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.
1.000	1	15 minute 100 year Winter I+30%	23.765	23.284	1.059	0.000	2.06
1.001	1	15 minute 100 year Winter I+30%	23.600	23.185	2.525	0.000	1.50
1.002	2	15 minute 100 year Winter I+30%	23.270	23.096	2.646	0.000	2.65
1.003	3	30 minute 100 year Summer I+30%	23.270	22.141	-0.079	0.000	0.46
2.000	5	15 minute 100 year Winter I+30%	23.750	21.752	-0.028	0.000	0.61
2.001	4	15 minute 100 year Winter I+30%	23.760	21.743	0.008	0.000	0.51
1.004	5	15 minute 100 year Winter I+30%	23.240	21.666	0.454	0.000	0.73
1.005	6	120 minute 100 year Summer I+30%	21.500	21.503	0.558	3.482	0.53
1.006	7	120 minute 100 year Summer I+30%	21.500	21.354	0.869	0.000	1.77

PN	US/MH Name	Overflow (l/s)	Discharge Vol (m³)	Pipe Flow (l/s)	Status
1.000	1		38.605	98.6	SURCHARGED
1.001	1		38.605	92.1	SURCHARGED
1.002	2		38.605	28.0	FLOOD RISK

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Overflow (l/s)	Discharge Vol (m³)	Pipe Flow (l/s)	Status
1.003	3		44.522	28.0	OK
2.000	5		2.903	7.5	OK
2.001	4		7.837	18.4	SURCHARGED
1.004	5		51.285	53.4	SURCHARGED
1.005	6		128.546	51.0	FLOOD
1.006	7		127.193	51.0	FLOOD RISK