10 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	2
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	0.409
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	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, 240, 360, 480, 960, 1440
Return Period(s) (years)	10, 30, 100
Climate Change (%)	0, 0, 30

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1	15 Winter	10	+0%	30/15 Summer	100/15 Winter			69.948
1.001	2	15 Winter	10	+0%	100/15 Summer				69.153
1.002	3	120 Winter	10	+0%	100/15 Summer				68.846
1.003	4	120 Winter	10	+0%	10/15 Summer				68.844
2.000	Tank1	120 Winter	10	+0%	10/15 Winter				68.845
1.004	5	120 Winter	10	+0%	10/15 Summer				68.843
1.005	6	120 Winter	10	+0%	10/15 Summer				68.843
3.000	Tank2	120 Winter	10	+0%	10/15 Summer				68.845
1.006	7	120 Winter	10	+0%	10/15 Summer				68.843
1.007	8	120 Winter	10	+0%	10/15 Summer				68.842

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	1	-0.002	0.000	1.00		25.3	OK	1
1.001	2	-0.097	0.000	0.61		47.0	OK	
1.002	3	-0.104	0.000	0.11		16.0	OK	
1.003	4	0.394	0.000	0.05		19.5	SURCHARGED	
2.000	Tank1	0.320	0.000	0.15		5.8	SURCHARGED	
1.004	5	0.423	0.000	0.05		20.2	SURCHARGED	

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PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.005	6	0.453	0.000	0.06		21.7	SURCHARGED	
3.000	Tank2	0.370	0.000	0.19		7.6	SURCHARGED	
1.006	7	0.478	0.000	0.03		16.2	SURCHARGED	
1.007	8	0.952	0.000	0.05		5.1	SURCHARGED	