



Date 29/09/2021 10:53
File 16153 - All Networks_RECOVER...

Designed by WillGarrett
Checked by

Innovyze

Network 2018.1

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 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 Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 6 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.405 Cv (Winter) 0.840

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

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level	Surcharged Depth
									(m)	(m)
S1.000	S1	15 Winter	1	+0%					91.275	-1.125
S1.001	S2	60 Winter	1	+0%					91.248	-0.887
S2.000	S3	15 Winter	1	+0%	30/15 Summer	100/15 Summer			90.889	-0.161
S2.001	S4	15 Winter	1	+0%	1/15 Summer				90.691	0.041
S1.002	S2	15 Winter	1	+0%					90.679	-0.821
S1.003	S4	240 Winter	1	+0%					90.532	-0.883
S1.004	S3	360 Winter	1	+0%					90.211	-0.930
S1.005	S6	960 Winter	1	+0%					89.928	-0.896
S1.006	S4	960 Winter	1	+0%	1/60 Winter				89.785	0.335

PN	US/MH Name	Flooded		Pipe		Level Exceeded
		Volume (m ³)	Flow / Cap. (l/s)	Flow (l/s)	Status	
S1.000	S1	0.000	0.00	11.8	OK	
S1.001	S2	0.000	0.00	2.8	OK	
S2.000	S3	0.000	0.42	11.4	OK	2
S2.001	S4	0.000	0.40	7.3	SURCHARGED	
S1.002	S2	0.000	0.00	11.4	OK	
S1.003	S4	0.000	0.00	2.9	OK	
S1.004	S3	0.000	0.00	2.9	OK	
S1.005	S6	0.000	0.00	2.4	OK	
S1.006	S4	0.000	0.01	0.8	SURCHARGED	



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

Simulation Criteria

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 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 Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 6 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

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 Region England and Wales Ratio R 0.405 Cv (Winter) 0.840

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

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
S1.000	S1	120 Winter	30	+0%					91.459	-0.941
S1.001	S2	120 Winter	30	+0%					91.459	-0.676
S2.000	S3	15 Winter	30	+0%	30/15 Summer	100/15 Summer			91.225	0.175
S2.001	S4	30 Winter	30	+0%	1/15 Summer				90.939	0.289
S1.002	S2	360 Winter	30	+0%					90.928	-0.571
S1.003	S4	480 Winter	30	+0%					90.815	-0.600
S1.004	S3	960 Winter	30	+0%					90.421	-0.720
S1.005	S6	1440 Winter	30	+0%					90.182	-0.642
S1.006	S4	1440 Winter	30	+0%	1/60 Winter				90.041	0.591

PN	US/MH Name	Flooded		Pipe		Level Exceeded
		Volume (m ³)	Flow / Cap. (l/s)	Flow (l/s)	Status	
S1.000	S1	0.000	0.00	8.8	OK	
S1.001	S2	0.000	0.00	3.7	OK	
S2.000	S3	0.000	0.90	24.5	SURCHARGED	2
S2.001	S4	0.000	1.01	18.5	SURCHARGED	
S1.002	S2	0.000	0.00	7.2	OK	
S1.003	S4	0.000	0.00	3.4	OK	
S1.004	S3	0.000	0.00	3.0	OK	
S1.005	S6	0.000	0.00	2.5	OK	
S1.006	S4	0.000	0.02	0.9	SURCHARGED	



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

Simulation Criteria

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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 Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 6 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

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

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
S1.000	S1	120 Winter	100	+40%					91.720	-0.680
S1.001	S2	120 Winter	100	+40%					91.720	-0.415
S2.000	S3	15 Winter	100	+40%	30/15 Summer	100/15 Summer			91.977	0.927
S2.001	S4	15 Winter	100	+40%	1/15 Summer				91.231	0.581
S1.002	S2	480 Winter	100	+40%					91.190	-0.310
S1.003	S4	480 Winter	100	+40%					91.072	-0.343
S1.004	S3	1440 Winter	100	+40%					90.673	-0.468
S1.005	S6	1440 Winter	100	+40%					90.429	-0.395
S1.006	S4	1440 Winter	100	+40%	1/60 Winter				90.285	0.835

PN	US/MH Name	Flooded		Pipe		Level Exceeded
		Volume (m ³)	Flow / Cap. (l/s)	Flow (l/s)	Status	
S1.000	S1	0.000	0.00	16.3	OK	
S1.001	S2	0.000	0.00	4.0	OK	
S2.000	S3	0.872	1.42	38.9	FLOOD	2
S2.001	S4	0.000	2.09	38.3	SURCHARGED	
S1.002	S2	0.000	0.00	7.6	OK	
S1.003	S4	0.000	0.00	3.6	OK	
S1.004	S3	0.000	0.00	3.1	OK	
S1.005	S6	0.000	0.00	2.7	OK	
S1.006	S4	0.000	0.02	1.0	FLOOD RISK	