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Catherine House Old Harborough Road Brixworth NN6 9BX	62954 Interchange 26, Bradford 100yr + 40 6hr Discharge vol	
Date 02/02/2022 11:19 File 62954 Storm Network VOLUME ...	Designed by GF Checked by MS	
Micro Drainage	Network 2020.1.3	

Summary Wizard of 360 minute 100 year Summer I+40% 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 12
 Number of Online Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 19.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.320 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 25.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

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) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)
S1.000	S1 360 minute	100 year Summer I+40%	95.600	94.360	-0.190	0.000	0.29	
S1.001	S2 360 minute	100 year Summer I+40%	95.620	94.205	-0.188	0.000	0.49	
S1.002	S3 360 minute	100 year Summer I+40%	95.620	94.094	-0.153	0.000	0.69	
S1.003	S4 360 minute	100 year Summer I+40%	95.620	94.018	-0.145	0.000	0.78	
S1.004	S5 360 minute	100 year Summer I+40%	95.195	93.916	-0.094	0.000	0.80	
S1.005	S6 360 minute	100 year Summer I+40%	95.195	93.815	-0.037	0.000	1.10	
S1.006	S7 360 minute	100 year Summer I+40%	95.195	93.632	-0.203	0.000	0.69	
S1.007	S8 360 minute	100 year Summer I+40%	95.450	93.356	-0.329	0.000	0.30	
S2.000	S9 360 minute	100 year Summer I+40%	95.425	93.949	-0.126	0.000	0.40	
S3.000	S10 360 minute	100 year Summer I+40%	94.295	93.829	-0.141	0.000	0.30	
S3.001	S11 360 minute	100 year Summer I+40%	94.540	93.642	-0.105	0.000	0.56	
S4.000	S12 360 minute	100 year Summer I+40%	94.350	93.209	-0.091	0.000	0.52	
S3.002	S14 360 minute	100 year Summer I+40%	94.540	93.173	-0.031	0.000	1.00	
S3.003	S15 360 minute	100 year Summer I+40%	94.540	92.999	-0.165	0.000	0.72	
S3.004	S16 360 minute	100 year Summer I+40%	94.540	92.782	-0.267	0.000	0.35	
S5.000	S17 360 minute	100 year Summer I+40%	95.300	93.878	-0.172	0.000	0.38	
S5.001	S18 360 minute	100 year Summer I+40%	95.425	93.511	-0.192	0.000	0.47	
S5.002	S19 360 minute	100 year Summer I+40%	95.350	93.163	-0.219	0.000	0.36	
S6.000	S20 360 minute	100 year Summer I+40%	102.335	101.500	-0.225	0.000	0.00	
S6.001	S21 360 minute	100 year Summer I+40%	102.245	101.415	-0.153	0.000	0.22	

		Pipe		
PN	US/MH Name	Discharge Vol (m³)	Flow (l/s)	Status
S1.000	S1	116.499	19.6	OK
S1.001	S2	347.407	58.1	OK
S1.002	S3	576.836	96.5	OK
S1.003	S4	691.832	115.8	OK
S1.004	S5	726.136	119.0	OK

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PN	Name	US/MH Discharge		Pipe Flow	Status
		Vol (m³)	(l/s)		
S1.005	S6	844.573	137.1	OK	
S1.006	S7	844.161	137.5	OK	
S1.007	S8	1009.067	162.6	OK	
S2.000	S9	177.547	29.9	OK	
S3.000	S10	81.414	14.3	OK	
S3.001	S11	162.820	28.5	OK	
S4.000	S12	314.548	52.7	OK	
S3.002	S14	477.419	78.8	OK	
S3.003	S15	603.262	99.8	OK	
S3.004	S16	735.436	121.9	OK	
S5.000	S17	230.263	38.7	OK	
S5.001	S18	503.111	84.5	OK	
S5.002	S19	620.490	104.6	OK	
S6.000	S20	0.000	0.0	OK	
S6.001	S21	64.934	11.4	OK	

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Summary Wizard of 360 minute 100 year Winter I+40% 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 12
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 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
 Return Period(s) (years) 1, 30, 100
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PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)
S1.000	S1 360 minute	100 year Winter I+40%	95.600	94.345	-0.205	0.000	0.22	
S1.001	S2 360 minute	100 year Winter I+40%	95.620	94.178	-0.215	0.000	0.38	
S1.002	S3 360 minute	100 year Winter I+40%	95.620	94.045	-0.203	0.000	0.53	
S1.003	S4 360 minute	100 year Winter I+40%	95.620	93.965	-0.198	0.000	0.60	
S1.004	S5 360 minute	100 year Winter I+40%	95.195	93.819	-0.190	0.000	0.63	
S1.005	S6 360 minute	100 year Winter I+40%	95.195	93.707	-0.145	0.000	0.87	
S1.006	S7 360 minute	100 year Winter I+40%	95.195	93.588	-0.248	0.000	0.55	
S1.007	S8 360 minute	100 year Winter I+40%	95.450	93.333	-0.352	0.000	0.24	
S2.000	S9 360 minute	100 year Winter I+40%	95.425	93.935	-0.140	0.000	0.31	
S3.000	S10 360 minute	100 year Winter I+40%	94.295	93.817	-0.153	0.000	0.22	
S3.001	S11 360 minute	100 year Winter I+40%	94.540	93.623	-0.124	0.000	0.42	
S4.000	S12 360 minute	100 year Winter I+40%	94.350	93.123	-0.177	0.000	0.40	
S3.002	S14 360 minute	100 year Winter I+40%	94.540	93.080	-0.123	0.000	0.78	
S3.003	S15 360 minute	100 year Winter I+40%	94.540	92.957	-0.207	0.000	0.57	
S3.004	S16 360 minute	100 year Winter I+40%	94.540	92.758	-0.292	0.000	0.27	
S5.000	S17 360 minute	100 year Winter I+40%	95.300	93.860	-0.190	0.000	0.29	
S5.001	S18 360 minute	100 year Winter I+40%	95.425	93.485	-0.219	0.000	0.37	
S5.002	S19 360 minute	100 year Winter I+40%	95.350	93.141	-0.242	0.000	0.27	
S6.000	S20 360 minute	100 year Winter I+40%	102.335	101.500	-0.225	0.000	0.00	
S6.001	S21 360 minute	100 year Winter I+40%	102.245	101.404	-0.164	0.000	0.17	

			Pipe	
PN	US/MH Name	Discharge Vol (m ³)	Flow (l/s)	Status
S1.000	S1	130.456	15.1	OK
S1.001	S2	389.132	44.9	OK
S1.002	S3	646.294	74.6	OK
S1.003	S4	775.719	89.5	OK
S1.004	S5	814.451	93.9	OK

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PN	Name	US/MH Discharge		Pipe Flow	Status
		Vol (m³)	(l/s)	(l/s)	
S1.005	S6	947.233	109.0		OK
S1.006	S7	947.617	108.9		OK
S1.007	S8	1132.638	129.9		OK
S2.000	S9	198.786	23.0		OK
S3.000	S10	91.138	10.6		OK
S3.001	S11	182.247	21.2		OK
S4.000	S12	352.234	40.6		OK
S3.002	S14	534.874	61.7		OK
S3.003	S15	676.449	78.0		OK
S3.004	S16	824.603	95.1		OK
S5.000	S17	257.842	29.7		OK
S5.001	S18	563.488	65.0		OK
S5.002	S19	695.389	80.2		OK
S6.000	S20	0.000	0.0		OK
S6.001	S21	72.690	8.5		OK