STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 6

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	20.000	Add Flow / Climate Change (%)	0
Ratio R	0.405	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Surface Network 6

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	39.600	0.450	88.0	0.152	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.001	20.454	0.190	107.7	0.108	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.000	56.304	1.220	46.2	0.079	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.002	74.998	1.465	51.2	0.192	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.003	44.109	1.160	38.0	0.176	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.004	54.425	1.005	54.2	0.226	0.00	0.0	0.600	o	525	Pipe/Conduit	
3.000	41.004	0.172	238.0	0.148	5.00	0.0	0.600	o	300	Pipe/Conduit	
4.000	28.032	1.540	18.2	0.103	5.00	0.0	0.600	o	300	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.39	98.460	0.152	0.0	0.0	0.0	1.68	118.5	20.6
1.001	50.00	5.62	98.010	0.261	0.0	0.0	0.0	1.51	107.1	35.3
2.000	50.00	5.40	99.040	0.079	0.0	0.0	0.0	2.32	164.0	10.6
1.002	50.00	6.06	97.670	0.532	0.0	0.0	0.0	2.85	452.7	72.0
1.003	50.00	6.28	96.205	0.708	0.0	0.0	0.0	3.31	525.7	95.8
1.004	50.00	6.58	94.970	0.934	0.0	0.0	0.0	3.05	659.9	126.5
3.000	50.00	5.67	95.432	0.148	0.0	0.0	0.0	1.01	71.7	20.1
4.000	50.00	5.13	96.800	0.103	0.0	0.0	0.0	3.70	261.7	13.9

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Network Design Table for Surface Network 6

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
3.001	74.623	0.905	82.5	0.035	0.00	0.0	0.600	o	525	Pipe/Conduit	
3.002	27.299	0.165	165.5	0.143	0.00	0.0	0.600	o	525	Pipe/Conduit	
1.005	22.741	0.050	454.8	0.126	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.006	42.654	0.090	473.9	0.166	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.007	42.021	0.050	840.4	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.008	12.047	0.100	120.5	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.009	19.876	0.250	79.5	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
3.001	50.00	6.18	95.035	0.286	0.0	0.0	0.0	2.47	534.3	38.7
3.002	50.00	6.44	94.130	0.429	0.0	0.0	0.0	1.74	376.4	58.1
1.005	50.00	6.91	93.890	1.489	0.0	0.0	0.0	1.14	321.0	201.6
1.006	50.00	7.55	93.840	1.655	0.0	0.0	0.0	1.11	314.4	224.1
1.007	50.00	8.39	93.750	1.655	0.0	0.0	0.0	0.83	235.2	224.1
1.008	50.00	8.48	93.700	1.655	0.0	0.0	0.0	2.22	627.0	224.1
1.009	50.00	8.63	93.600	1.655	0.0	0.0	0.0	2.28	362.9	224.1

Free Flowing Outfall Details for Surface Network 6

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.009	S7025 Headwall	94.550	93.350	0.000	0	0

Simulation Criteria for Surface Network 6

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	0.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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	Region	England and Wales
Return Period (years)	2	M5-60 (mm)	20.000

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Synthetic Rainfall Details

Ratio R	0.405	Cv (Winter)	0.840
Profile Type	Summer	Storm Duration (mins)	30
Cv (Summer)	0.750		

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Online Controls for Surface Network 6

Hydro-Brake® Optimum Manhole: S7024 Control Chamber, DS/PN: 1.009, Volume (m³): 15.7

Unit Reference	MD-SHE-0132-8000-1000-8000
Design Head (m)	1.000
Design Flow (l/s)	8.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	132
Invert Level (m)	93.600
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.000	8.0
Flush-Flo™	0.302	8.0
Kick-Flo®	0.664	6.6
Mean Flow over Head Range	-	6.9

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	4.7	1.200	8.7	3.000	13.4	7.000	20.1
0.200	7.8	1.400	9.4	3.500	14.5	7.500	20.8
0.300	8.0	1.600	10.0	4.000	15.4	8.000	21.5
0.400	7.9	1.800	10.5	4.500	16.3	8.500	22.1
0.500	7.7	2.000	11.1	5.000	17.1	9.000	22.7
0.600	7.2	2.200	11.6	5.500	17.9	9.500	23.3
0.800	7.2	2.400	12.1	6.000	18.7		
1.000	8.0	2.600	12.6	6.500	19.4		

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Storage Structures for Surface Network 6

Swale Manhole: S8063, DS/PN: 1.005

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000	Length (m)	14.0
Infiltration Coefficient Side (m/hr)	0.00000	Side Slope (1:X)	3.0
Safety Factor	2.0	Slope (1:X)	0.0
Porosity	1.00	Cap Volume Depth (m)	0.000
Invert Level (m)	95.000	Cap Infiltration Depth (m)	0.000
Base Width (m)	0.5	Include Swale Volume	Yes

Tank or Pond Manhole: S7024 Control Chamber, DS/PN: 1.009

Invert Level (m) 93.600

Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	1144.8	0.500	1463.7	1.000	1818.9	1.500	2209.1
0.100	1204.8	0.600	1531.9	1.100	1894.1	1.600	2291.4
0.200	1267.4	0.700	1601.5	1.200	1970.8	1.700	2375.1
0.300	1331.4	0.800	1672.6	1.300	2048.8		
0.400	1396.8	0.900	1745.0	1.400	2128.3		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	20	98.547	-0.213	0.000	0.18		
1.001	S8043	20	98.132	-0.178	0.000	0.34		
2.000	S8045	20	99.091	-0.249	0.000	0.07		
1.002	S8046	20	97.787	-0.333	0.000	0.15		
1.003	S7016	20	96.332	-0.323	0.000	0.18		
1.004	S7019	21	95.121	-0.374	0.000	0.18		
3.000	S8070	20	95.544	-0.188	0.000	0.30		
4.000	S8072	20	96.847	-0.253	0.000	0.06		
3.001	S8071	20	95.131	-0.429	0.000	0.07		
3.002	S8062	31	94.309	-0.346	0.000	0.16		
1.005	S8063	35	94.276	-0.214	0.000	0.65		5
1.006	S8073	35	94.221	-0.219	0.000	0.63		
1.007	S7022 Headwall	35	94.128	-0.222	0.000	0.70		
1.008	S7023 Headwall	42	93.991	-0.309	0.000	0.47		
1.009	S7024 Control Chamber	72	93.680	-0.370	0.000	0.01		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	20.0	OK
1.001	S8043	32.0	OK
2.000	S8045	10.4	OK
1.002	S8046	63.6	OK
1.003	S7016	82.7	OK
1.004	S7019	107.1	OK
3.000	S8070	19.8	OK
4.000	S8072	13.7	OK
3.001	S8071	36.8	OK
3.002	S8062	50.6	OK
1.005	S8063	162.8	OK
1.006	S8073	170.9	OK
1.007	S7022 Headwall	165.1	OK*
1.008	S7023 Headwall	164.5	OK*
1.009	S7024 Control Chamber	3.3	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	21	98.542	-0.218	0.000	0.17		
1.001	S8043	23	98.126	-0.184	0.000	0.32		
2.000	S8045	21	99.088	-0.252	0.000	0.06		
1.002	S8046	23	97.782	-0.338	0.000	0.14		
1.003	S7016	23	96.327	-0.328	0.000	0.16		
1.004	S7019	23	95.115	-0.380	0.000	0.17		
3.000	S8070	21	95.537	-0.195	0.000	0.27		
4.000	S8072	21	96.844	-0.256	0.000	0.05		
3.001	S8071	21	95.124	-0.436	0.000	0.07		
3.002	S8062	35	94.301	-0.354	0.000	0.15		
1.005	S8063	36	94.264	-0.226	0.000	0.62		5
1.006	S8073	36	94.212	-0.228	0.000	0.61		
1.007	S7022 Headwall	36	94.117	-0.233	0.000	0.68		
1.008	S7023 Headwall	44	93.985	-0.315	0.000	0.46		
1.009	S7024 Control Chamber	70	93.702	-0.348	0.000	0.02		

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	18.3	OK
1.001	S8043	29.6	OK
2.000	S8045	9.5	OK
1.002	S8046	58.3	OK
1.003	S7016	76.4	OK
1.004	S7019	99.7	OK
3.000	S8070	17.8	OK
4.000	S8072	12.4	OK
3.001	S8071	33.2	OK
3.002	S8062	47.1	OK
1.005	S8063	152.9	OK
1.006	S8073	163.6	OK
1.007	S7022 Headwall	159.7	OK*
1.008	S7023 Headwall	158.5	OK*
1.009	S7024 Control Chamber	4.9	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	28	98.530	-0.230	0.000	0.12		
1.001	S8043	28	98.110	-0.200	0.000	0.24		
2.000	S8045	28	99.081	-0.259	0.000	0.04		
1.002	S8046	29	97.768	-0.352	0.000	0.11		
1.003	S7016	30	96.311	-0.344	0.000	0.13		
1.004	S7019	30	95.096	-0.399	0.000	0.13		
3.000	S8070	28	95.523	-0.210	0.000	0.19		
4.000	S8072	28	96.838	-0.262	0.000	0.04		
3.001	S8071	28	95.111	-0.449	0.000	0.05		
3.002	S8062	39	94.269	-0.386	0.000	0.12		
1.005	S8063	39	94.221	-0.269	0.000	0.49		10
1.006	S8073	40	94.167	-0.273	0.000	0.49		
1.007	S7022 Headwall	40	94.076	-0.274	0.000	0.55		
1.008	S7023 Headwall	52	93.955	-0.345	0.000	0.37		
1.009	S7024 Control Chamber	68	93.724	-0.326	0.000	0.02		

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	13.2	OK
1.001	S8043	22.1	OK
2.000	S8045	6.8	OK
1.002	S8046	44.9	OK
1.003	S7016	59.5	OK
1.004	S7019	78.2	OK
3.000	S8070	12.8	OK
4.000	S8072	9.0	OK
3.001	S8071	24.7	OK
3.002	S8062	36.3	OK
1.005	S8063	121.5	OK
1.006	S8073	132.9	OK
1.007	S7022 Headwall	129.1	OK*
1.008	S7023 Headwall	129.9	OK*
1.009	S7024 Control Chamber	6.2	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	38	98.517	-0.243	0.000	0.08		
1.001	S8043	38	98.091	-0.219	0.000	0.16		
2.000	S8045	38	99.074	-0.266	0.000	0.03		
1.002	S8046	38	97.750	-0.370	0.000	0.07		
1.003	S7016	38	96.294	-0.361	0.000	0.09		
1.004	S7019	38	95.077	-0.418	0.000	0.09		
3.000	S8070	38	95.504	-0.229	0.000	0.13		
4.000	S8072	38	96.832	-0.268	0.000	0.03		
3.001	S8071	38	95.097	-0.463	0.000	0.03		
3.002	S8062	44	94.236	-0.419	0.000	0.08		
1.005	S8063	44	94.163	-0.327	0.000	0.34		16
1.006	S8073	44	94.112	-0.328	0.000	0.34		
1.007	S7022 Headwall	48	94.023	-0.327	0.000	0.39		
1.008	S7023 Headwall	55	93.908	-0.392	0.000	0.27		
1.009	S7024 Control Chamber	66	93.742	-0.308	0.000	0.03		

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	8.8	OK
1.001	S8043	15.1	OK
2.000	S8045	4.6	OK
1.002	S8046	30.5	OK
1.003	S7016	40.7	OK
1.004	S7019	53.5	OK
3.000	S8070	8.6	OK
4.000	S8072	6.0	OK
3.001	S8071	16.4	OK
3.002	S8062	24.5	OK
1.005	S8063	83.7	OK
1.006	S8073	91.0	OK
1.007	S7022 Headwall	92.2	OK*
1.008	S7023 Headwall	92.7	OK*
1.009	S7024 Control Chamber	7.1	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	43	98.510	-0.250	0.000	0.06		
1.001	S8043	44	98.081	-0.229	0.000	0.13		
2.000	S8045	43	99.071	-0.269	0.000	0.02		
1.002	S8046	44	97.740	-0.380	0.000	0.06		
1.003	S7016	44	96.282	-0.373	0.000	0.07		
1.004	S7019	44	95.063	-0.432	0.000	0.07		
3.000	S8070	43	95.497	-0.236	0.000	0.10		
4.000	S8072	43	96.829	-0.271	0.000	0.02		
3.001	S8071	44	95.092	-0.468	0.000	0.03		
3.002	S8062	47	94.217	-0.438	0.000	0.06		
1.005	S8063	48	94.130	-0.360	0.000	0.27		18
1.006	S8073	48	94.079	-0.361	0.000	0.28		
1.007	S7022 Headwall	52	93.993	-0.357	0.000	0.31		
1.008	S7023 Headwall	57	93.887	-0.413	0.000	0.21		
1.009	S7024 Control Chamber	65	93.750	-0.300	0.000	0.03		

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	7.1	OK
1.001	S8043	12.0	OK
2.000	S8045	3.7	OK
1.002	S8046	24.3	OK
1.003	S7016	32.1	OK
1.004	S7019	42.1	OK
3.000	S8070	6.9	OK
4.000	S8072	4.8	OK
3.001	S8071	13.1	OK
3.002	S8062	19.5	OK
1.005	S8063	67.1	OK
1.006	S8073	74.7	OK
1.007	S7022 Headwall	73.4	OK*
1.008	S7023 Headwall	73.8	OK*
1.009	S7024 Control Chamber	7.4	OK

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	48	98.504	-0.256	0.000	0.05		
1.001	S8043	48	98.075	-0.235	0.000	0.11		
2.000	S8045	48	99.067	-0.273	0.000	0.02		
1.002	S8046	48	97.733	-0.387	0.000	0.05		
1.003	S7016	48	96.274	-0.381	0.000	0.06		
1.004	S7019	48	95.053	-0.442	0.000	0.06		
3.000	S8070	48	95.491	-0.242	0.000	0.08		
4.000	S8072	48	96.824	-0.276	0.000	0.02		
3.001	S8071	48	95.088	-0.472	0.000	0.02		
3.002	S8062	50	94.207	-0.448	0.000	0.05		
1.005	S8063	50	94.107	-0.383	0.000	0.22		24
1.006	S8073	51	94.058	-0.382	0.000	0.23		
1.007	S7022 Headwall	56	93.971	-0.379	0.000	0.26		
1.008	S7023 Headwall	58	93.869	-0.431	0.000	0.18		
1.009	S7024 Control Chamber	64	93.755	-0.295	0.000	0.03		

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	5.8	OK
1.001	S8043	10.0	OK
2.000	S8045	3.0	OK
1.002	S8046	20.2	OK
1.003	S7016	26.9	OK
1.004	S7019	35.3	OK
3.000	S8070	5.6	OK
4.000	S8072	3.9	OK
3.001	S8071	10.8	OK
3.002	S8062	16.3	OK
1.005	S8063	55.7	OK
1.006	S8073	61.4	OK
1.007	S7022 Headwall	62.0	OK*
1.008	S7023 Headwall	61.9	OK*
1.009	S7024 Control Chamber	7.4	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	55	98.498	-0.262	0.000	0.04		
1.001	S8043	55	98.066	-0.244	0.000	0.08		
2.000	S8045	55	99.060	-0.280	0.000	0.01		
1.002	S8046	55	97.725	-0.395	0.000	0.04		
1.003	S7016	55	96.265	-0.390	0.000	0.04		
1.004	S7019	55	95.041	-0.454	0.000	0.04		
3.000	S8070	55	95.481	-0.251	0.000	0.06		
4.000	S8072	55	96.818	-0.282	0.000	0.01		
3.001	S8071	55	95.076	-0.484	0.000	0.02		
3.002	S8062	56	94.197	-0.458	0.000	0.04		
1.005	S8063	56	94.077	-0.413	0.000	0.17		36
1.006	S8073	57	94.028	-0.412	0.000	0.17		
1.007	S7022 Headwall	60	93.944	-0.406	0.000	0.20		
1.008	S7023 Headwall	60	93.846	-0.454	0.000	0.13		
1.009	S7024 Control Chamber	60	93.761	-0.289	0.000	0.03		

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	4.4	OK
1.001	S8043	7.5	OK
2.000	S8045	2.2	OK
1.002	S8046	15.2	OK
1.003	S7016	20.2	OK
1.004	S7019	26.6	OK
3.000	S8070	4.2	OK
4.000	S8072	2.9	OK
3.001	S8071	8.2	OK
3.002	S8062	12.3	OK
1.005	S8063	42.3	OK
1.006	S8073	46.9	OK
1.007	S7022 Headwall	46.6	OK*
1.008	S7023 Headwall	46.4	OK*
1.009	S7024 Control Chamber	7.5	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	59	98.495	-0.265	0.000	0.03		
1.001	S8043	59	98.059	-0.251	0.000	0.06		
2.000	S8045	59	99.057	-0.283	0.000	0.01		
1.002	S8046	59	97.720	-0.400	0.000	0.03		
1.003	S7016	59	96.259	-0.396	0.000	0.03		
1.004	S7019	59	95.034	-0.461	0.000	0.04		
3.000	S8070	59	95.476	-0.257	0.000	0.05		
4.000	S8072	59	96.814	-0.286	0.000	0.01		
3.001	S8071	59	95.068	-0.492	0.000	0.01		
3.002	S8062	59	94.191	-0.464	0.000	0.03		
1.005	S8063	59	94.057	-0.433	0.000	0.14		48
1.006	S8073	60	94.009	-0.431	0.000	0.14		
1.007	S7022 Headwall	62	93.926	-0.424	0.000	0.16		
1.008	S7023 Headwall	62	93.832	-0.468	0.000	0.11		
1.009	S7024 Control Chamber	59	93.764	-0.286	0.000	0.03		

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	3.5	OK
1.001	S8043	6.0	OK
2.000	S8045	1.8	OK
1.002	S8046	12.3	OK
1.003	S7016	16.4	OK
1.004	S7019	21.6	OK
3.000	S8070	3.4	OK
4.000	S8072	2.4	OK
3.001	S8071	6.6	OK
3.002	S8062	9.9	OK
1.005	S8063	34.4	OK
1.006	S8073	38.3	OK
1.007	S7022 Headwall	38.2	OK*
1.008	S7023 Headwall	38.2	OK*
1.009	S7024 Control Chamber	7.5	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	63	98.493	-0.267	0.000	0.03		
1.001	S8043	63	98.055	-0.255	0.000	0.05		
2.000	S8045	63	99.054	-0.286	0.000	0.01		
1.002	S8046	63	97.717	-0.403	0.000	0.02		
1.003	S7016	63	96.256	-0.399	0.000	0.03		
1.004	S7019	63	95.030	-0.465	0.000	0.03		
3.000	S8070	63	95.472	-0.260	0.000	0.04		
4.000	S8072	63	96.812	-0.288	0.000	0.01		
3.001	S8071	63	95.063	-0.497	0.000	0.01		
3.002	S8062	63	94.187	-0.468	0.000	0.03		
1.005	S8063	63	94.043	-0.447	0.000	0.12		60
1.006	S8073	63	93.995	-0.445	0.000	0.12		
1.007	S7022 Headwall	64	93.913	-0.437	0.000	0.14		
1.008	S7023 Headwall	64	93.823	-0.477	0.000	0.09		
1.009	S7024 Control Chamber	56	93.766	-0.284	0.000	0.03		

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	3.0	OK
1.001	S8043	5.1	OK
2.000	S8045	1.5	OK
1.002	S8046	10.4	OK
1.003	S7016	13.9	OK
1.004	S7019	18.3	OK
3.000	S8070	2.9	OK
4.000	S8072	2.0	OK
3.001	S8071	5.6	OK
3.002	S8062	8.4	OK
1.005	S8063	29.2	OK
1.006	S8073	32.5	OK
1.007	S7022 Headwall	32.5	OK*
1.008	S7023 Headwall	32.5	OK*
1.009	S7024 Control Chamber	7.5	OK

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	65	98.491	-0.269	0.000	0.02		
1.001	S8043	65	98.052	-0.258	0.000	0.05		
2.000	S8045	65	99.052	-0.288	0.000	0.01		
1.002	S8046	65	97.715	-0.405	0.000	0.02		
1.003	S7016	65	96.253	-0.402	0.000	0.03		
1.004	S7019	65	95.027	-0.468	0.000	0.03		
3.000	S8070	65	95.470	-0.262	0.000	0.04		
4.000	S8072	65	96.811	-0.289	0.000	0.01		
3.001	S8071	65	95.060	-0.500	0.000	0.01		
3.002	S8062	65	94.185	-0.470	0.000	0.02		
1.005	S8063	65	94.032	-0.458	0.000	0.10		60
1.006	S8073	66	93.984	-0.456	0.000	0.11		
1.007	S7022 Headwall	66	93.902	-0.448	0.000	0.12		
1.008	S7023 Headwall	66	93.814	-0.486	0.000	0.08		
1.009	S7024 Control Chamber	57	93.765	-0.285	0.000	0.03		

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	2.6	OK
1.001	S8043	4.5	OK
2.000	S8045	1.4	OK
1.002	S8046	9.1	OK
1.003	S7016	12.2	OK
1.004	S7019	16.0	OK
3.000	S8070	2.5	OK
4.000	S8072	1.8	OK
3.001	S8071	4.9	OK
3.002	S8062	7.4	OK
1.005	S8063	25.6	OK
1.006	S8073	28.4	OK
1.007	S7022 Headwall	28.4	OK*
1.008	S7023 Headwall	28.4	OK*
1.009	S7024 Control Chamber	7.5	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	68	98.487	-0.273	0.000	0.02		
1.001	S8043	68	98.048	-0.262	0.000	0.04		
2.000	S8045	68	99.050	-0.290	0.000	0.01		
1.002	S8046	68	97.707	-0.413	0.000	0.02		
1.003	S7016	68	96.249	-0.406	0.000	0.02		
1.004	S7019	68	95.023	-0.472	0.000	0.02		
3.000	S8070	68	95.467	-0.266	0.000	0.03		
4.000	S8072	68	96.809	-0.291	0.000	0.01		
3.001	S8071	68	95.055	-0.505	0.000	0.01		
3.002	S8062	68	94.178	-0.477	0.000	0.02		
1.005	S8063	68	94.019	-0.471	0.000	0.08		96
1.006	S8073	68	93.970	-0.470	0.000	0.09		
1.007	S7022 Headwall	68	93.887	-0.463	0.000	0.10		
1.008	S7023 Headwall	68	93.800	-0.500	0.000	0.07		
1.009	S7024 Control Chamber	58	93.764	-0.286	0.000	0.03		

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	2.1	OK
1.001	S8043	3.6	OK
2.000	S8045	1.1	OK
1.002	S8046	7.4	OK
1.003	S7016	9.8	OK
1.004	S7019	13.0	OK
3.000	S8070	2.1	OK
4.000	S8072	1.4	OK
3.001	S8071	4.0	OK
3.002	S8062	6.0	OK
1.005	S8063	20.7	OK
1.006	S8073	23.0	OK
1.007	S7022 Headwall	23.0	OK*
1.008	S7023 Headwall	23.0	OK*
1.009	S7024 Control Chamber	7.5	OK

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	71	98.480	-0.280	0.000	0.01		
1.001	S8043	71	98.043	-0.267	0.000	0.03		
2.000	S8045	71	99.047	-0.293	0.000	0.01		
1.002	S8046	71	97.698	-0.422	0.000	0.01		
1.003	S7016	71	96.238	-0.417	0.000	0.02		
1.004	S7019	71	95.010	-0.485	0.000	0.02		
3.000	S8070	71	95.463	-0.269	0.000	0.02		
4.000	S8072	71	96.806	-0.294	0.000	0.00		
3.001	S8071	71	95.050	-0.510	0.000	0.01		
3.002	S8062	71	94.165	-0.490	0.000	0.01		
1.005	S8063	71	94.000	-0.490	0.000	0.06		192
1.006	S8073	71	93.952	-0.488	0.000	0.06		
1.007	S7022 Headwall	71	93.870	-0.480	0.000	0.07		
1.008	S7023 Headwall	71	93.785	-0.515	0.000	0.05		
1.009	S7024 Control Chamber	63	93.756	-0.294	0.000	0.03		

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	1.6	OK
1.001	S8043	2.7	OK
2.000	S8045	0.8	OK
1.002	S8046	5.5	OK
1.003	S7016	7.3	OK
1.004	S7019	9.7	OK
3.000	S8070	1.5	OK
4.000	S8072	1.1	OK
3.001	S8071	3.0	OK
3.002	S8062	4.4	OK
1.005	S8063	15.4	OK
1.006	S8073	17.1	OK
1.007	S7022 Headwall	17.1	OK*
1.008	S7023 Headwall	17.1	OK*
1.009	S7024 Control Chamber	7.4	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	7	98.602	-0.158	0.000	0.45		
1.001	S8043	7	98.243	-0.067	0.000	0.94		
2.000	S8045	7	99.122	-0.218	0.000	0.16		
1.002	S8046	7	97.878	-0.242	0.000	0.42		
1.003	S7016	7	96.437	-0.218	0.000	0.51		
1.004	S7019	8	95.249	-0.246	0.000	0.53		
3.000	S8070	7	95.624	-0.108	0.000	0.73		
4.000	S8072	7	96.875	-0.225	0.000	0.14		
3.001	S8071	8	95.191	-0.369	0.000	0.19		
3.002	S8062	8	94.955	0.300	0.000	0.39		
1.005	S8063	8	94.923	0.433	0.000	1.69		6
1.006	S8073	8	94.782	0.342	0.000	1.67		
1.007	S7022 Headwall	10	94.350	0.000	0.000	1.83		
1.008	S7023 Headwall	9	94.300	0.000	0.000	1.23		
1.009	S7024 Control Chamber	48	93.790	-0.260	0.000	0.03		

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	49.2	OK
1.001	S8043	87.8	OK
2.000	S8045	25.4	OK
1.002	S8046	177.5	OK
1.003	S7016	239.0	OK
1.004	S7019	313.3	OK
3.000	S8070	48.5	OK
4.000	S8072	33.7	OK
3.001	S8071	92.6	OK
3.002	S8062	120.5	SURCHARGED
1.005	S8063	420.2	SURCHARGED
1.006	S8073	449.8	SURCHARGED
1.007	S7022 Headwall	430.4	SURCHARGED*
1.008	S7023 Headwall	428.6	SURCHARGED*
1.009	S7024 Control Chamber	7.7	OK

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	9	98.593	-0.167	0.000	0.41		
1.001	S8043	9	98.222	-0.088	0.000	0.83		
2.000	S8045	9	99.117	-0.223	0.000	0.15		
1.002	S8046	9	97.863	-0.257	0.000	0.37		
1.003	S7016	9	96.417	-0.238	0.000	0.45		
1.004	S7019	9	95.225	-0.270	0.000	0.47		
3.000	S8070	9	95.609	-0.123	0.000	0.65		
4.000	S8072	9	96.871	-0.229	0.000	0.13		
3.001	S8071	9	95.181	-0.379	0.000	0.17		
3.002	S8062	10	94.852	0.197	0.000	0.36		
1.005	S8063	10	94.820	0.330	0.000	1.55		7
1.006	S8073	9	94.694	0.254	0.000	1.54		
1.007	S7022 Headwall	9	94.350	0.000	0.000	1.71		
1.008	S7023 Headwall	8	94.300	0.000	0.000	1.17		
1.009	S7024 Control Chamber	46	93.841	-0.209	0.000	0.03		

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	44.8	OK
1.001	S8043	77.9	OK
2.000	S8045	23.1	OK
1.002	S8046	158.7	OK
1.003	S7016	211.9	OK
1.004	S7019	279.6	OK
3.000	S8070	43.6	OK
4.000	S8072	30.2	OK
3.001	S8071	82.7	OK
3.002	S8062	111.7	SURCHARGED
1.005	S8063	386.5	SURCHARGED
1.006	S8073	416.4	SURCHARGED
1.007	S7022 Headwall	402.0	SURCHARGED*
1.008	S7023 Headwall	404.8	SURCHARGED*
1.009	S7024 Control Chamber	7.9	OK

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	12	98.572	-0.188	0.000	0.29		
1.001	S8043	12	98.180	-0.130	0.000	0.59		
2.000	S8045	12	99.106	-0.234	0.000	0.11		
1.002	S8046	12	97.831	-0.289	0.000	0.26		
1.003	S7016	12	96.384	-0.271	0.000	0.31		
1.004	S7019	12	95.184	-0.311	0.000	0.33		
3.000	S8070	12	95.578	-0.154	0.000	0.46		
4.000	S8072	12	96.861	-0.239	0.000	0.09		
3.001	S8071	12	95.158	-0.402	0.000	0.12		
3.002	S8062	12	94.600	-0.055	0.000	0.27		
1.005	S8063	12	94.575	0.085	0.000	1.20		8
1.006	S8073	12	94.503	0.063	0.000	1.18		
1.007	S7022 Headwall	11	94.350	0.000	0.000	1.37		
1.008	S7023 Headwall	29	94.153	-0.147	0.000	0.92		
1.009	S7024 Control Chamber	44	93.890	-0.160	0.000	0.03		

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	31.7	OK
1.001	S8043	55.0	OK
2.000	S8045	16.4	OK
1.002	S8046	110.9	OK
1.003	S7016	148.5	OK
1.004	S7019	195.3	OK
3.000	S8070	30.9	OK
4.000	S8072	21.7	OK
3.001	S8071	59.7	OK
3.002	S8062	84.4	OK
1.005	S8063	298.0	SURCHARGED
1.006	S8073	319.9	SURCHARGED
1.007	S7022 Headwall	322.8	SURCHARGED*
1.008	S7023 Headwall	319.8	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	19	98.548	-0.212	0.000	0.19		
1.001	S8043	18	98.138	-0.172	0.000	0.38		
2.000	S8045	19	99.091	-0.249	0.000	0.07		
1.002	S8046	18	97.794	-0.326	0.000	0.17		
1.003	S7016	18	96.343	-0.312	0.000	0.20		
1.004	S7019	18	95.134	-0.361	0.000	0.21		
3.000	S8070	19	95.545	-0.187	0.000	0.30		
4.000	S8072	19	96.847	-0.253	0.000	0.06		
3.001	S8071	19	95.133	-0.427	0.000	0.08		
3.002	S8062	22	94.377	-0.278	0.000	0.18		
1.005	S8063	24	94.359	-0.131	0.000	0.80		12
1.006	S8073	26	94.306	-0.134	0.000	0.81		
1.007	S7022 Headwall	31	94.210	-0.140	0.000	0.91		
1.008	S7023 Headwall	31	94.046	-0.254	0.000	0.63		
1.009	S7024 Control Chamber	41	93.933	-0.117	0.000	0.03		

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	20.7	OK
1.001	S8043	35.5	OK
2.000	S8045	10.7	OK
1.002	S8046	72.2	OK
1.003	S7016	96.2	OK
1.004	S7019	127.0	OK
3.000	S8070	20.1	OK
4.000	S8072	14.0	OK
3.001	S8071	38.6	OK
3.002	S8062	57.2	OK
1.005	S8063	198.5	OK
1.006	S8073	218.0	OK
1.007	S7022 Headwall	215.1	OK*
1.008	S7023 Headwall	217.4	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	25	98.537	-0.223	0.000	0.15		
1.001	S8043	24	98.122	-0.188	0.000	0.30		
2.000	S8045	25	99.085	-0.255	0.000	0.05		
1.002	S8046	24	97.779	-0.341	0.000	0.13		
1.003	S7016	24	96.325	-0.330	0.000	0.16		
1.004	S7019	24	95.114	-0.381	0.000	0.17		
3.000	S8070	25	95.531	-0.201	0.000	0.24		
4.000	S8072	25	96.841	-0.259	0.000	0.05		
3.001	S8071	25	95.120	-0.440	0.000	0.06		
3.002	S8062	29	94.312	-0.343	0.000	0.15		
1.005	S8063	33	94.283	-0.207	0.000	0.62		18
1.006	S8073	34	94.229	-0.211	0.000	0.64		
1.007	S7022 Headwall	34	94.132	-0.218	0.000	0.73		
1.008	S7023 Headwall	40	93.999	-0.301	0.000	0.49		
1.009	S7024 Control Chamber	39	93.955	-0.095	0.000	0.03		

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	16.3	OK
1.001	S8043	27.8	OK
2.000	S8045	8.4	OK
1.002	S8046	56.6	OK
1.003	S7016	75.2	OK
1.004	S7019	99.2	OK
3.000	S8070	15.7	OK
4.000	S8072	11.0	OK
3.001	S8071	30.2	OK
3.002	S8062	45.0	OK
1.005	S8063	154.9	OK
1.006	S8073	172.0	OK
1.007	S7022 Headwall	172.0	OK*
1.008	S7023 Headwall	170.4	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	29	98.529	-0.231	0.000	0.12		
1.001	S8043	29	98.109	-0.201	0.000	0.24		
2.000	S8045	29	99.080	-0.260	0.000	0.04		
1.002	S8046	28	97.768	-0.352	0.000	0.11		
1.003	S7016	28	96.312	-0.343	0.000	0.13		
1.004	S7019	28	95.098	-0.397	0.000	0.14		
3.000	S8070	29	95.521	-0.212	0.000	0.19		
4.000	S8072	29	96.837	-0.263	0.000	0.04		
3.001	S8071	29	95.110	-0.450	0.000	0.05		
3.002	S8062	38	94.277	-0.378	0.000	0.12		
1.005	S8063	38	94.234	-0.256	0.000	0.51		20
1.006	S8073	38	94.183	-0.257	0.000	0.52		
1.007	S7022 Headwall	38	94.090	-0.260	0.000	0.59		
1.008	S7023 Headwall	51	93.966	-0.334	0.000	0.40		
1.009	S7024 Control Chamber	38	93.966	-0.084	0.000	0.03		

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	13.1	OK
1.001	S8043	22.5	OK
2.000	S8045	6.8	OK
1.002	S8046	45.7	OK
1.003	S7016	60.9	OK
1.004	S7019	80.4	OK
3.000	S8070	12.7	OK
4.000	S8072	8.9	OK
3.001	S8071	24.5	OK
3.002	S8062	36.7	OK
1.005	S8063	127.3	OK
1.006	S8073	140.7	OK
1.007	S7022 Headwall	139.0	OK*
1.008	S7023 Headwall	139.8	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	37	98.519	-0.241	0.000	0.09		
1.001	S8043	37	98.094	-0.216	0.000	0.18		
2.000	S8045	37	99.075	-0.265	0.000	0.03		
1.002	S8046	37	97.754	-0.366	0.000	0.08		
1.003	S7016	37	96.297	-0.358	0.000	0.09		
1.004	S7019	37	95.080	-0.415	0.000	0.10		
3.000	S8070	37	95.506	-0.226	0.000	0.14		
4.000	S8072	37	96.833	-0.267	0.000	0.03		
3.001	S8071	37	95.099	-0.461	0.000	0.04		
3.002	S8062	43	94.242	-0.413	0.000	0.09		
1.005	S8063	43	94.177	-0.313	0.000	0.38		30
1.006	S8073	43	94.127	-0.313	0.000	0.39		
1.007	S7022 Headwall	43	94.039	-0.311	0.000	0.44		
1.008	S7023 Headwall	47	93.976	-0.324	0.000	0.30		
1.009	S7024 Control Chamber	32	93.976	-0.074	0.000	0.03		

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	9.6	OK
1.001	S8043	16.4	OK
2.000	S8045	5.0	OK
1.002	S8046	33.5	OK
1.003	S7016	44.6	OK
1.004	S7019	58.9	OK
3.000	S8070	9.3	OK
4.000	S8072	6.5	OK
3.001	S8071	18.0	OK
3.002	S8062	27.0	OK
1.005	S8063	93.8	OK
1.006	S8073	104.1	OK
1.007	S7022 Headwall	103.9	OK*
1.008	S7023 Headwall	103.6	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	41	98.512	-0.248	0.000	0.07		
1.001	S8043	41	98.084	-0.226	0.000	0.14		
2.000	S8045	41	99.072	-0.268	0.000	0.03		
1.002	S8046	41	97.743	-0.377	0.000	0.06		
1.003	S7016	41	96.286	-0.369	0.000	0.08		
1.004	S7019	41	95.068	-0.427	0.000	0.08		
3.000	S8070	41	95.499	-0.234	0.000	0.11		
4.000	S8072	41	96.830	-0.270	0.000	0.02		
3.001	S8071	41	95.094	-0.466	0.000	0.03		
3.002	S8062	45	94.224	-0.431	0.000	0.07		
1.005	S8063	45	94.143	-0.347	0.000	0.30		40
1.006	S8073	45	94.094	-0.346	0.000	0.31		
1.007	S7022 Headwall	50	94.007	-0.343	0.000	0.35		
1.008	S7023 Headwall	46	93.979	-0.321	0.000	0.24		
1.009	S7024 Control Chamber	31	93.978	-0.072	0.000	0.03		

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	7.7	OK
1.001	S8043	13.1	OK
2.000	S8045	4.0	OK
1.002	S8046	26.8	OK
1.003	S7016	35.7	OK
1.004	S7019	47.1	OK
3.000	S8070	7.5	OK
4.000	S8072	5.2	OK
3.001	S8071	14.4	OK
3.002	S8062	21.6	OK
1.005	S8063	75.0	OK
1.006	S8073	83.3	OK
1.007	S7022 Headwall	83.3	OK*
1.008	S7023 Headwall	83.2	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	46	98.507	-0.253	0.000	0.06		
1.001	S8043	46	98.078	-0.232	0.000	0.12		
2.000	S8045	46	99.070	-0.270	0.000	0.02		
1.002	S8046	46	97.736	-0.384	0.000	0.05		
1.003	S7016	46	96.278	-0.377	0.000	0.06		
1.004	S7019	46	95.058	-0.437	0.000	0.07		
3.000	S8070	46	95.494	-0.239	0.000	0.09		
4.000	S8072	46	96.826	-0.274	0.000	0.02		
3.001	S8071	46	95.090	-0.470	0.000	0.02		
3.002	S8062	49	94.212	-0.443	0.000	0.06		
1.005	S8063	49	94.121	-0.369	0.000	0.25		60
1.006	S8073	49	94.072	-0.368	0.000	0.26		
1.007	S7022 Headwall	54	93.987	-0.363	0.000	0.30		
1.008	S7023 Headwall	48	93.976	-0.324	0.000	0.20		
1.009	S7024 Control Chamber	33	93.975	-0.075	0.000	0.03		

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	6.5	OK
1.001	S8043	11.0	OK
2.000	S8045	3.3	OK
1.002	S8046	22.5	OK
1.003	S7016	30.0	OK
1.004	S7019	39.5	OK
3.000	S8070	6.3	OK
4.000	S8072	4.3	OK
3.001	S8071	12.1	OK
3.002	S8062	18.2	OK
1.005	S8063	63.0	OK
1.006	S8073	70.0	OK
1.007	S7022 Headwall	70.0	OK*
1.008	S7023 Headwall	70.0	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	51	98.503	-0.257	0.000	0.05		
1.001	S8043	51	98.074	-0.236	0.000	0.10		
2.000	S8045	51	99.066	-0.274	0.000	0.02		
1.002	S8046	51	97.732	-0.388	0.000	0.05		
1.003	S7016	51	96.273	-0.382	0.000	0.06		
1.004	S7019	51	95.051	-0.444	0.000	0.06		
3.000	S8070	51	95.489	-0.243	0.000	0.08		
4.000	S8072	51	96.823	-0.277	0.000	0.02		
3.001	S8071	51	95.088	-0.472	0.000	0.02		
3.002	S8062	52	94.206	-0.449	0.000	0.05		
1.005	S8063	52	94.104	-0.386	0.000	0.22		84
1.006	S8073	52	94.056	-0.384	0.000	0.22		
1.007	S7022 Headwall	55	93.974	-0.376	0.000	0.26		
1.008	S7023 Headwall	49	93.973	-0.327	0.000	0.17		
1.009	S7024 Control Chamber	34	93.972	-0.078	0.000	0.03		

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	5.6	OK
1.001	S8043	9.6	OK
2.000	S8045	2.9	OK
1.002	S8046	19.5	OK
1.003	S7016	26.0	OK
1.004	S7019	34.3	OK
3.000	S8070	5.4	OK
4.000	S8072	3.8	OK
3.001	S8071	10.5	OK
3.002	S8062	15.7	OK
1.005	S8063	54.6	OK
1.006	S8073	60.7	OK
1.007	S7022 Headwall	60.6	OK*
1.008	S7023 Headwall	60.3	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	54	98.499	-0.261	0.000	0.04		
1.001	S8043	54	98.067	-0.243	0.000	0.08		
2.000	S8045	54	99.061	-0.279	0.000	0.01		
1.002	S8046	54	97.725	-0.395	0.000	0.04		
1.003	S7016	54	96.265	-0.390	0.000	0.04		
1.004	S7019	54	95.042	-0.453	0.000	0.05		
3.000	S8070	54	95.482	-0.250	0.000	0.06		
4.000	S8072	54	96.818	-0.282	0.000	0.01		
3.001	S8071	54	95.077	-0.483	0.000	0.02		
3.002	S8062	55	94.198	-0.457	0.000	0.04		
1.005	S8063	55	94.081	-0.409	0.000	0.18		112
1.006	S8073	55	94.034	-0.406	0.000	0.18		
1.007	S7022 Headwall	57	93.968	-0.382	0.000	0.21		
1.008	S7023 Headwall	50	93.967	-0.333	0.000	0.14		
1.009	S7024 Control Chamber	37	93.966	-0.084	0.000	0.03		

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	4.5	OK
1.001	S8043	7.6	OK
2.000	S8045	2.3	OK
1.002	S8046	15.6	OK
1.003	S7016	20.7	OK
1.004	S7019	27.3	OK
3.000	S8070	4.3	OK
4.000	S8072	3.0	OK
3.001	S8071	8.4	OK
3.002	S8062	12.6	OK
1.005	S8063	43.6	OK
1.006	S8073	48.4	OK
1.007	S7022 Headwall	48.3	OK*
1.008	S7023 Headwall	48.0	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	61	98.494	-0.266	0.000	0.03		
1.001	S8043	61	98.057	-0.253	0.000	0.06		
2.000	S8045	61	99.055	-0.285	0.000	0.01		
1.002	S8046	61	97.719	-0.401	0.000	0.03		
1.003	S7016	61	96.257	-0.398	0.000	0.03		
1.004	S7019	61	95.032	-0.463	0.000	0.03		
3.000	S8070	61	95.474	-0.258	0.000	0.05		
4.000	S8072	61	96.813	-0.287	0.000	0.01		
3.001	S8071	61	95.066	-0.494	0.000	0.01		
3.002	S8062	61	94.189	-0.466	0.000	0.03		
1.005	S8063	61	94.052	-0.438	0.000	0.13		168
1.006	S8073	61	94.006	-0.434	0.000	0.13		
1.007	S7022 Headwall	59	93.951	-0.399	0.000	0.15		
1.008	S7023 Headwall	53	93.949	-0.351	0.000	0.10		
1.009	S7024 Control Chamber	40	93.948	-0.102	0.000	0.03		

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	3.2	OK
1.001	S8043	5.6	OK
2.000	S8045	1.7	OK
1.002	S8046	11.3	OK
1.003	S7016	15.1	OK
1.004	S7019	19.9	OK
3.000	S8070	3.2	OK
4.000	S8072	2.2	OK
3.001	S8071	6.1	OK
3.002	S8062	9.1	OK
1.005	S8063	31.7	OK
1.006	S8073	35.2	OK
1.007	S7022 Headwall	35.1	OK*
1.008	S7023 Headwall	34.8	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	2	98.941	0.181	0.000	0.81		
1.001	S8043	2	98.646	0.336	0.000	1.64		
2.000	S8045	2	99.153	-0.187	0.000	0.30		
1.002	S8046	2	97.970	-0.150	0.000	0.74		
1.003	S7016	2	97.092	0.437	0.000	0.80		
1.004	S7019	2	96.352	0.857	0.000	0.81		
3.000	S8070	2	96.094	0.362	0.000	1.28		
4.000	S8072	2	96.904	-0.196	0.000	0.26		
3.001	S8071	2	95.902	0.342	0.000	0.28		
3.002	S8062	2	95.841	1.186	0.000	0.63		
1.005	S8063	2	95.786	1.296	0.000	2.40		4
1.006	S8073	2	95.440	1.000	0.000	2.33		
1.007	S7022 Headwall	4	94.350	0.000	0.000	2.66		
1.008	S7023 Headwall	21	94.300	0.000	0.000	1.80		
1.009	S7024 Control Chamber	42	93.932	-0.118	0.000	0.03		

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	89.0	SURCHARGED
1.001	S8043	153.6	SURCHARGED
2.000	S8045	46.1	OK
1.002	S8046	314.2	OK
1.003	S7016	377.9	SURCHARGED
1.004	S7019	478.1	SURCHARGED
3.000	S8070	85.6	SURCHARGED
4.000	S8072	61.2	OK
3.001	S8071	139.9	SURCHARGED
3.002	S8062	196.8	SURCHARGED
1.005	S8063	596.6	FLOOD RISK
1.006	S8073	629.5	SURCHARGED
1.007	S7022 Headwall	624.8	SURCHARGED*
1.008	S7023 Headwall	624.5	SURCHARGED*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	3	98.782	0.022	0.000	0.73		
1.001	S8043	3	98.533	0.223	0.000	1.48		
2.000	S8045	3	99.146	-0.194	0.000	0.27		
1.002	S8046	3	97.943	-0.177	0.000	0.67		
1.003	S7016	3	96.810	0.155	0.000	0.75		
1.004	S7019	3	96.217	0.722	0.000	0.75		
3.000	S8070	3	95.993	0.261	0.000	1.17		
4.000	S8072	3	96.898	-0.202	0.000	0.23		
3.001	S8071	3	95.833	0.273	0.000	0.26		
3.002	S8062	3	95.784	1.129	0.000	0.59		
1.005	S8063	3	95.737	1.247	0.000	2.33		5
1.006	S8073	3	95.408	0.968	0.000	2.30		
1.007	S7022 Headwall	3	94.350	0.000	0.000	2.62		
1.008	S7023 Headwall	10	94.300	0.000	0.000	1.77		
1.009	S7024 Control Chamber	26	94.022	-0.028	0.000	0.03		

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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	80.7	SURCHARGED
1.001	S8043	138.0	SURCHARGED
2.000	S8045	42.3	OK
1.002	S8046	283.2	OK
1.003	S7016	354.1	SURCHARGED
1.004	S7019	446.4	SURCHARGED
3.000	S8070	78.0	SURCHARGED
4.000	S8072	55.4	OK
3.001	S8071	129.4	SURCHARGED
3.002	S8062	184.3	SURCHARGED
1.005	S8063	578.9	FLOOD RISK
1.006	S8073	620.2	SURCHARGED
1.007	S7022 Headwall	615.7	SURCHARGED*
1.008	S7023 Headwall	616.1	SURCHARGED*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	5	98.619	-0.141	0.000	0.53		
1.001	S8043	5	98.344	0.034	0.000	1.07		
2.000	S8045	5	99.131	-0.209	0.000	0.19		
1.002	S8046	5	97.897	-0.223	0.000	0.48		
1.003	S7016	5	96.458	-0.197	0.000	0.57		
1.004	S7019	5	95.698	0.203	0.000	0.59		
3.000	S8070	5	95.650	-0.082	0.000	0.85		
4.000	S8072	5	96.883	-0.217	0.000	0.17		
3.001	S8071	5	95.454	-0.106	0.000	0.21		
3.002	S8062	5	95.413	0.758	0.000	0.46		
1.005	S8063	5	95.370	0.880	0.000	2.00		8
1.006	S8073	5	95.124	0.684	0.000	2.02		
1.007	S7022 Headwall	2	94.350	0.000	0.000	2.30		
1.008	S7023 Headwall	2	94.300	0.000	0.000	1.55		
1.009	S7024 Control Chamber	20	94.107	0.057	0.000	0.03		

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Summary Wizard of 60 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	58.4	OK
1.001	S8043	100.1	SURCHARGED
2.000	S8045	30.1	OK
1.002	S8046	204.0	OK
1.003	S7016	270.6	OK
1.004	S7019	347.7	SURCHARGED
3.000	S8070	56.7	OK
4.000	S8072	40.1	OK
3.001	S8071	104.4	OK
3.002	S8062	141.7	SURCHARGED
1.005	S8063	496.2	SURCHARGED
1.006	S8073	544.4	SURCHARGED
1.007	S7022 Headwall	540.4	SURCHARGED*
1.008	S7023 Headwall	539.1	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	11	98.582	-0.178	0.000	0.35		
1.001	S8043	11	98.196	-0.114	0.000	0.70		
2.000	S8045	11	99.111	-0.229	0.000	0.13		
1.002	S8046	11	97.843	-0.277	0.000	0.31		
1.003	S7016	11	96.396	-0.259	0.000	0.38		
1.004	S7019	11	95.199	-0.296	0.000	0.39		
3.000	S8070	11	95.593	-0.140	0.000	0.55		
4.000	S8072	11	96.866	-0.234	0.000	0.11		
3.001	S8071	11	95.168	-0.392	0.000	0.14		
3.002	S8062	9	94.855	0.200	0.000	0.33		
1.005	S8063	9	94.825	0.335	0.000	1.42		16
1.006	S8073	10	94.691	0.251	0.000	1.45		
1.007	S7022 Headwall	8	94.350	0.000	0.000	1.65		
1.008	S7023 Headwall	3	94.300	0.000	0.000	1.12		
1.009	S7024 Control Chamber	18	94.186	0.136	0.000	0.03		

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Summary Wizard of 120 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	38.1	OK
1.001	S8043	65.3	OK
2.000	S8045	19.7	OK
1.002	S8046	132.8	OK
1.003	S7016	177.1	OK
1.004	S7019	233.7	OK
3.000	S8070	36.9	OK
4.000	S8072	25.8	OK
3.001	S8071	71.0	OK
3.002	S8062	103.9	SURCHARGED
1.005	S8063	353.7	SURCHARGED
1.006	S8073	391.4	SURCHARGED
1.007	S7022 Headwall	387.2	SURCHARGED*
1.008	S7023 Headwall	388.9	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	14	98.566	-0.194	0.000	0.27		
1.001	S8043	14	98.169	-0.141	0.000	0.55		
2.000	S8045	14	99.103	-0.237	0.000	0.10		
1.002	S8046	14	97.821	-0.299	0.000	0.25		
1.003	S7016	14	96.372	-0.283	0.000	0.29		
1.004	S7019	14	95.170	-0.325	0.000	0.31		
3.000	S8070	14	95.571	-0.161	0.000	0.43		
4.000	S8072	14	96.859	-0.241	0.000	0.09		
3.001	S8071	14	95.153	-0.407	0.000	0.11		
3.002	S8062	14	94.581	-0.074	0.000	0.26		
1.005	S8063	14	94.557	0.067	0.000	1.14		18
1.006	S8073	14	94.489	0.049	0.000	1.17		
1.007	S7022 Headwall	12	94.350	0.000	0.000	1.34		
1.008	S7023 Headwall	28	94.227	-0.073	0.000	0.91		
1.009	S7024 Control Chamber	17	94.226	0.176	0.000	0.03		

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Summary Wizard of 180 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	29.9	OK
1.001	S8043	51.0	OK
2.000	S8045	15.4	OK
1.002	S8046	103.9	OK
1.003	S7016	138.0	OK
1.004	S7019	181.9	OK
3.000	S8070	28.9	OK
4.000	S8072	20.2	OK
3.001	S8071	55.4	OK
3.002	S8062	82.1	OK
1.005	S8063	282.5	SURCHARGED
1.006	S8073	315.5	SURCHARGED
1.007	S7022 Headwall	316.1	SURCHARGED*
1.008	S7023 Headwall	314.4	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	16	98.555	-0.205	0.000	0.22		
1.001	S8043	16	98.149	-0.161	0.000	0.44		
2.000	S8045	16	99.096	-0.244	0.000	0.08		
1.002	S8046	16	97.805	-0.315	0.000	0.20		
1.003	S7016	16	96.353	-0.302	0.000	0.24		
1.004	S7019	16	95.147	-0.348	0.000	0.25		
3.000	S8070	16	95.555	-0.178	0.000	0.35		
4.000	S8072	16	96.851	-0.249	0.000	0.07		
3.001	S8071	16	95.141	-0.419	0.000	0.09		
3.002	S8062	16	94.510	-0.145	0.000	0.20		
1.005	S8063	16	94.490	0.000	0.000	0.89		20
1.006	S8073	16	94.440	0.000	0.000	0.90		
1.007	S7022 Headwall	22	94.341	-0.009	0.000	1.03		
1.008	S7023 Headwall	26	94.251	-0.049	0.000	0.70		
1.009	S7024 Control Chamber	15	94.250	0.200	0.000	0.03		

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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	24.0	OK
1.001	S8043	41.0	OK
2.000	S8045	12.4	OK
1.002	S8046	83.5	OK
1.003	S7016	111.3	OK
1.004	S7019	146.9	OK
3.000	S8070	23.3	OK
4.000	S8072	16.2	OK
3.001	S8071	44.7	OK
3.002	S8062	62.8	OK
1.005	S8063	221.2	OK
1.006	S8073	242.7	OK
1.007	S7022 Headwall	242.0	OK*
1.008	S7023 Headwall	241.8	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	23	98.539	-0.221	0.000	0.16		
1.001	S8043	22	98.126	-0.184	0.000	0.32		
2.000	S8045	23	99.086	-0.254	0.000	0.06		
1.002	S8046	22	97.783	-0.337	0.000	0.14		
1.003	S7016	22	96.329	-0.326	0.000	0.17		
1.004	S7019	22	95.119	-0.376	0.000	0.18		
3.000	S8070	23	95.534	-0.198	0.000	0.25		
4.000	S8072	23	96.843	-0.257	0.000	0.05		
3.001	S8071	23	95.123	-0.437	0.000	0.07		
3.002	S8062	26	94.330	-0.325	0.000	0.16		
1.005	S8063	29	94.306	-0.184	0.000	0.68		510
1.006	S8073	30	94.288	-0.152	0.000	0.70		
1.007	S7022 Headwall	29	94.284	-0.066	0.000	0.80		
1.008	S7023 Headwall	24	94.280	-0.020	0.000	0.54		
1.009	S7024 Control Chamber	13	94.278	0.228	0.000	0.03		

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Summary Wizard of 360 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	17.4	OK
1.001	S8043	29.9	OK
2.000	S8045	9.0	OK
1.002	S8046	60.8	OK
1.003	S7016	81.0	OK
1.004	S7019	106.9	OK
3.000	S8070	16.9	OK
4.000	S8072	11.8	OK
3.001	S8071	32.7	OK
3.002	S8062	49.1	OK
1.005	S8063	170.1	OK
1.006	S8073	188.8	OK
1.007	S7022 Headwall	188.2	OK*
1.008	S7023 Headwall	186.8	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	27	98.530	-0.230	0.000	0.13		
1.001	S8043	27	98.112	-0.198	0.000	0.25		
2.000	S8045	27	99.081	-0.259	0.000	0.05		
1.002	S8046	27	97.771	-0.349	0.000	0.11		
1.003	S7016	27	96.315	-0.340	0.000	0.14		
1.004	S7019	27	95.102	-0.393	0.000	0.14		
3.000	S8070	27	95.523	-0.209	0.000	0.20		
4.000	S8072	27	96.838	-0.262	0.000	0.04		
3.001	S8071	27	95.112	-0.448	0.000	0.05		
3.002	S8062	33	94.308	-0.347	0.000	0.13		
1.005	S8063	28	94.307	-0.183	0.000	0.54		408
1.006	S8073	28	94.305	-0.135	0.000	0.56		
1.007	S7022 Headwall	28	94.302	-0.048	0.000	0.63		
1.008	S7023 Headwall	23	94.298	-0.002	0.000	0.42		
1.009	S7024 Control Chamber	11	94.294	0.244	0.000	0.03		

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Summary Wizard of 480 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	13.9	OK
1.001	S8043	23.8	OK
2.000	S8045	7.2	OK
1.002	S8046	48.4	OK
1.003	S7016	64.5	OK
1.004	S7019	85.1	OK
3.000	S8070	13.5	OK
4.000	S8072	9.4	OK
3.001	S8071	26.0	OK
3.002	S8062	39.0	OK
1.005	S8063	135.2	OK
1.006	S8073	150.0	OK
1.007	S7022 Headwall	148.9	OK*
1.008	S7023 Headwall	146.9	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	32	98.525	-0.235	0.000	0.11		
1.001	S8043	32	98.103	-0.207	0.000	0.21		
2.000	S8045	32	99.078	-0.262	0.000	0.04		
1.002	S8046	32	97.763	-0.357	0.000	0.10		
1.003	S7016	32	96.306	-0.349	0.000	0.11		
1.004	S7019	32	95.090	-0.405	0.000	0.12		
3.000	S8070	32	95.515	-0.218	0.000	0.17		
4.000	S8072	32	96.835	-0.265	0.000	0.03		
3.001	S8071	32	95.105	-0.455	0.000	0.04		
3.002	S8062	32	94.309	-0.346	0.000	0.11		
1.005	S8063	27	94.308	-0.182	0.000	0.46		440
1.006	S8073	27	94.306	-0.134	0.000	0.46		
1.007	S7022 Headwall	26	94.303	-0.047	0.000	0.53		
1.008	S7023 Headwall	4	94.300	0.000	0.000	0.35		
1.009	S7024 Control Chamber	9	94.300	0.250	0.000	0.03		

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Summary Wizard of 600 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	11.6	OK
1.001	S8043	19.9	OK
2.000	S8045	6.0	OK
1.002	S8046	40.6	OK
1.003	S7016	54.0	OK
1.004	S7019	71.3	OK
3.000	S8070	11.3	OK
4.000	S8072	7.8	OK
3.001	S8071	21.8	OK
3.002	S8062	32.7	OK
1.005	S8063	113.2	OK
1.006	S8073	125.6	OK
1.007	S7022 Headwall	124.6	OK*
1.008	S7023 Headwall	122.8	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	35	98.521	-0.239	0.000	0.09		
1.001	S8043	35	98.096	-0.214	0.000	0.18		
2.000	S8045	35	99.075	-0.265	0.000	0.03		
1.002	S8046	35	97.756	-0.364	0.000	0.08		
1.003	S7016	35	96.299	-0.356	0.000	0.10		
1.004	S7019	35	95.082	-0.413	0.000	0.10		
3.000	S8070	35	95.508	-0.224	0.000	0.15		
4.000	S8072	35	96.833	-0.267	0.000	0.03		
3.001	S8071	35	95.101	-0.459	0.000	0.04		
3.002	S8062	30	94.310	-0.345	0.000	0.09		
1.005	S8063	26	94.309	-0.181	0.000	0.39		444
1.006	S8073	25	94.307	-0.133	0.000	0.40		
1.007	S7022 Headwall	25	94.305	-0.045	0.000	0.46		
1.008	S7023 Headwall	5	94.300	0.000	0.000	0.31		
1.009	S7024 Control Chamber	8	94.303	0.253	0.000	0.03		

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Summary Wizard of 720 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	10.1	OK
1.001	S8043	17.2	OK
2.000	S8045	5.2	OK
1.002	S8046	35.1	OK
1.003	S7016	46.7	OK
1.004	S7019	61.6	OK
3.000	S8070	9.8	OK
4.000	S8072	6.8	OK
3.001	S8071	18.8	OK
3.002	S8062	28.3	OK
1.005	S8063	97.9	OK
1.006	S8073	108.5	OK
1.007	S7022 Headwall	107.6	OK*
1.008	S7023 Headwall	106.0	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	40	98.513	-0.247	0.000	0.07		
1.001	S8043	40	98.086	-0.224	0.000	0.15		
2.000	S8045	40	99.072	-0.268	0.000	0.03		
1.002	S8046	40	97.745	-0.375	0.000	0.07		
1.003	S7016	40	96.288	-0.367	0.000	0.08		
1.004	S7019	40	95.070	-0.425	0.000	0.08		
3.000	S8070	40	95.500	-0.232	0.000	0.12		
4.000	S8072	40	96.831	-0.269	0.000	0.02		
3.001	S8071	40	95.095	-0.465	0.000	0.03		
3.002	S8062	34	94.306	-0.349	0.000	0.07		
1.005	S8063	30	94.305	-0.185	0.000	0.31		544
1.006	S8073	29	94.304	-0.136	0.000	0.32		
1.007	S7022 Headwall	27	94.302	-0.048	0.000	0.36		
1.008	S7023 Headwall	6	94.300	0.000	0.000	0.24		
1.009	S7024 Control Chamber	10	94.300	0.250	0.000	0.03		

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Summary Wizard of 960 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	8.0	OK
1.001	S8043	13.7	OK
2.000	S8045	4.1	OK
1.002	S8046	27.9	OK
1.003	S7016	37.1	OK
1.004	S7019	49.0	OK
3.000	S8070	7.8	OK
4.000	S8072	5.4	OK
3.001	S8071	15.0	OK
3.002	S8062	22.5	OK
1.005	S8063	77.8	OK
1.006	S8073	86.2	OK
1.007	S7022 Headwall	85.3	OK*
1.008	S7023 Headwall	84.0	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	49	98.504	-0.256	0.000	0.05		
1.001	S8043	49	98.075	-0.235	0.000	0.11		
2.000	S8045	49	99.067	-0.273	0.000	0.02		
1.002	S8046	49	97.733	-0.387	0.000	0.05		
1.003	S7016	49	96.274	-0.381	0.000	0.06		
1.004	S7019	49	95.052	-0.443	0.000	0.06		
3.000	S8070	49	95.490	-0.242	0.000	0.08		
4.000	S8072	49	96.823	-0.277	0.000	0.02		
3.001	S8071	49	95.088	-0.472	0.000	0.02		
3.002	S8062	37	94.281	-0.374	0.000	0.05		
1.005	S8063	34	94.281	-0.209	0.000	0.23		624
1.006	S8073	31	94.280	-0.160	0.000	0.23		
1.007	S7022 Headwall	30	94.278	-0.072	0.000	0.26		
1.008	S7023 Headwall	25	94.277	-0.023	0.000	0.17		
1.009	S7024 Control Chamber	14	94.276	0.226	0.000	0.03		

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Summary Wizard of 1440 minute 100 year Summer I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	5.8	OK
1.001	S8043	9.9	OK
2.000	S8045	3.0	OK
1.002	S8046	20.1	OK
1.003	S7016	26.8	OK
1.004	S7019	35.3	OK
3.000	S8070	5.6	OK
4.000	S8072	3.9	OK
3.001	S8071	10.8	OK
3.002	S8062	16.2	OK
1.005	S8063	56.2	OK
1.006	S8073	62.2	OK
1.007	S7022 Headwall	61.5	OK*
1.008	S7023 Headwall	60.6	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	18	98.550	-0.210	0.000	0.19		
1.001	S8043	19	98.136	-0.174	0.000	0.36		
2.000	S8045	18	99.092	-0.248	0.000	0.07		
1.002	S8046	19	97.790	-0.330	0.000	0.16		
1.003	S7016	19	96.336	-0.319	0.000	0.19		
1.004	S7019	19	95.125	-0.370	0.000	0.19		
3.000	S8070	18	95.547	-0.185	0.000	0.31		
4.000	S8072	18	96.848	-0.252	0.000	0.06		
3.001	S8071	18	95.134	-0.426	0.000	0.08		
3.002	S8062	27	94.323	-0.332	0.000	0.17		
1.005	S8063	31	94.296	-0.194	0.000	0.70		6
1.006	S8073	32	94.240	-0.200	0.000	0.68		
1.007	S7022 Headwall	32	94.148	-0.202	0.000	0.75		
1.008	S7023 Headwall	38	94.005	-0.295	0.000	0.51		
1.009	S7024 Control Chamber	71	93.689	-0.361	0.000	0.01		

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	20.9	OK
1.001	S8043	33.9	OK
2.000	S8045	10.8	OK
1.002	S8046	67.2	OK
1.003	S7016	87.7	OK
1.004	S7019	113.3	OK
3.000	S8070	20.7	OK
4.000	S8072	14.4	OK
3.001	S8071	38.6	OK
3.002	S8062	53.3	OK
1.005	S8063	173.7	OK
1.006	S8073	184.1	OK
1.007	S7022 Headwall	177.6	OK*
1.008	S7023 Headwall	177.9	OK*
1.009	S7024 Control Chamber	4.0	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	24	98.537	-0.223	0.000	0.15		
1.001	S8043	26	98.121	-0.189	0.000	0.29		
2.000	S8045	24	99.085	-0.255	0.000	0.06		
1.002	S8046	26	97.778	-0.342	0.000	0.13		
1.003	S7016	26	96.323	-0.332	0.000	0.15		
1.004	S7019	26	95.110	-0.385	0.000	0.16		
3.000	S8070	24	95.532	-0.201	0.000	0.24		
4.000	S8072	24	96.842	-0.258	0.000	0.05		
3.001	S8071	24	95.120	-0.440	0.000	0.06		
3.002	S8062	36	94.296	-0.359	0.000	0.14		
1.005	S8063	37	94.260	-0.230	0.000	0.60		7
1.006	S8073	37	94.207	-0.233	0.000	0.59		
1.007	S7022 Headwall	37	94.113	-0.237	0.000	0.67		
1.008	S7023 Headwall	45	93.983	-0.317	0.000	0.45		
1.009	S7024 Control Chamber	69	93.714	-0.336	0.000	0.02		

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	16.6	OK
1.001	S8043	27.4	OK
2.000	S8045	8.6	OK
1.002	S8046	55.0	OK
1.003	S7016	72.7	OK
1.004	S7019	95.3	OK
3.000	S8070	16.1	OK
4.000	S8072	11.2	OK
3.001	S8071	30.5	OK
3.002	S8062	44.3	OK
1.005	S8063	148.2	OK
1.006	S8073	160.4	OK
1.007	S7022 Headwall	157.8	OK*
1.008	S7023 Headwall	156.8	OK*
1.009	S7024 Control Chamber	5.6	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	33	98.523	-0.237	0.000	0.10		
1.001	S8043	33	98.101	-0.209	0.000	0.20		
2.000	S8045	33	99.077	-0.263	0.000	0.04		
1.002	S8046	33	97.761	-0.359	0.000	0.09		
1.003	S7016	33	96.303	-0.352	0.000	0.11		
1.004	S7019	33	95.086	-0.409	0.000	0.11		
3.000	S8070	33	95.513	-0.220	0.000	0.16		
4.000	S8072	33	96.835	-0.265	0.000	0.03		
3.001	S8071	33	95.104	-0.456	0.000	0.04		
3.002	S8062	41	94.252	-0.403	0.000	0.10		
1.005	S8063	41	94.195	-0.295	0.000	0.42		12
1.006	S8073	41	94.144	-0.296	0.000	0.43		
1.007	S7022 Headwall	41	94.054	-0.296	0.000	0.49		
1.008	S7023 Headwall	54	93.937	-0.363	0.000	0.33		
1.009	S7024 Control Chamber	67	93.738	-0.312	0.000	0.02		

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	11.0	OK
1.001	S8043	18.7	OK
2.000	S8045	5.7	OK
1.002	S8046	38.0	OK
1.003	S7016	50.5	OK
1.004	S7019	66.5	OK
3.000	S8070	10.7	OK
4.000	S8072	7.4	OK
3.001	S8071	20.6	OK
3.002	S8062	30.7	OK
1.005	S8063	104.9	OK
1.006	S8073	116.0	OK
1.007	S7022 Headwall	114.3	OK*
1.008	S7023 Headwall	114.8	OK*
1.009	S7024 Control Chamber	6.9	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	45	98.509	-0.251	0.000	0.06		
1.001	S8043	45	98.081	-0.229	0.000	0.13		
2.000	S8045	45	99.071	-0.269	0.000	0.02		
1.002	S8046	45	97.739	-0.381	0.000	0.06		
1.003	S7016	45	96.282	-0.373	0.000	0.07		
1.004	S7019	45	95.062	-0.433	0.000	0.07		
3.000	S8070	45	95.496	-0.236	0.000	0.10		
4.000	S8072	45	96.828	-0.272	0.000	0.02		
3.001	S8071	45	95.092	-0.468	0.000	0.03		
3.002	S8062	48	94.217	-0.438	0.000	0.06		
1.005	S8063	47	94.131	-0.359	0.000	0.27		20
1.006	S8073	47	94.081	-0.359	0.000	0.28		
1.007	S7022 Headwall	51	93.995	-0.355	0.000	0.32		
1.008	S7023 Headwall	56	93.888	-0.412	0.000	0.22		
1.009	S7024 Control Chamber	61	93.760	-0.290	0.000	0.03		

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	7.0	OK
1.001	S8043	11.9	OK
2.000	S8045	3.6	OK
1.002	S8046	24.3	OK
1.003	S7016	32.3	OK
1.004	S7019	42.6	OK
3.000	S8070	6.8	OK
4.000	S8072	4.7	OK
3.001	S8071	13.0	OK
3.002	S8062	19.6	OK
1.005	S8063	67.4	OK
1.006	S8073	74.3	OK
1.007	S7022 Headwall	74.8	OK*
1.008	S7023 Headwall	74.9	OK*
1.009	S7024 Control Chamber	7.5	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	52	98.502	-0.258	0.000	0.05		
1.001	S8043	52	98.072	-0.238	0.000	0.10		
2.000	S8045	52	99.065	-0.275	0.000	0.02		
1.002	S8046	52	97.730	-0.390	0.000	0.04		
1.003	S7016	52	96.271	-0.384	0.000	0.05		
1.004	S7019	52	95.049	-0.446	0.000	0.05		
3.000	S8070	52	95.487	-0.245	0.000	0.08		
4.000	S8072	52	96.822	-0.278	0.000	0.02		
3.001	S8071	52	95.085	-0.475	0.000	0.02		
3.002	S8062	53	94.204	-0.451	0.000	0.05		
1.005	S8063	53	94.096	-0.394	0.000	0.21		36
1.006	S8073	53	94.048	-0.392	0.000	0.21		
1.007	S7022 Headwall	58	93.963	-0.387	0.000	0.24		
1.008	S7023 Headwall	59	93.862	-0.438	0.000	0.16		
1.009	S7024 Control Chamber	55	93.770	-0.280	0.000	0.03		

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	5.3	OK
1.001	S8043	9.1	OK
2.000	S8045	2.7	OK
1.002	S8046	18.5	OK
1.003	S7016	24.6	OK
1.004	S7019	32.4	OK
3.000	S8070	5.2	OK
4.000	S8072	3.6	OK
3.001	S8071	9.9	OK
3.002	S8062	14.9	OK
1.005	S8063	51.6	OK
1.006	S8073	57.4	OK
1.007	S7022 Headwall	57.1	OK*
1.008	S7023 Headwall	57.2	OK*
1.009	S7024 Control Chamber	7.6	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	56	98.498	-0.262	0.000	0.04		
1.001	S8043	56	98.066	-0.244	0.000	0.08		
2.000	S8045	56	99.060	-0.280	0.000	0.01		
1.002	S8046	56	97.725	-0.395	0.000	0.04		
1.003	S7016	56	96.264	-0.391	0.000	0.04		
1.004	S7019	56	95.041	-0.454	0.000	0.04		
3.000	S8070	56	95.481	-0.251	0.000	0.06		
4.000	S8072	56	96.818	-0.282	0.000	0.01		
3.001	S8071	56	95.076	-0.484	0.000	0.02		
3.002	S8062	57	94.197	-0.458	0.000	0.04		
1.005	S8063	57	94.077	-0.413	0.000	0.17		44
1.006	S8073	58	94.028	-0.412	0.000	0.17		
1.007	S7022 Headwall	61	93.944	-0.406	0.000	0.20		
1.008	S7023 Headwall	61	93.846	-0.454	0.000	0.14		
1.009	S7024 Control Chamber	53	93.775	-0.275	0.000	0.03		

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	4.3	OK
1.001	S8043	7.4	OK
2.000	S8045	2.2	OK
1.002	S8046	15.1	OK
1.003	S7016	20.1	OK
1.004	S7019	26.6	OK
3.000	S8070	4.2	OK
4.000	S8072	2.9	OK
3.001	S8071	8.1	OK
3.002	S8062	12.2	OK
1.005	S8063	42.3	OK
1.006	S8073	46.9	OK
1.007	S7022 Headwall	47.0	OK*
1.008	S7023 Headwall	47.0	OK*
1.009	S7024 Control Chamber	7.6	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	62	98.494	-0.266	0.000	0.03		
1.001	S8043	62	98.057	-0.253	0.000	0.06		
2.000	S8045	62	99.055	-0.285	0.000	0.01		
1.002	S8046	62	97.719	-0.401	0.000	0.03		
1.003	S7016	62	96.257	-0.398	0.000	0.03		
1.004	S7019	62	95.032	-0.463	0.000	0.03		
3.000	S8070	62	95.474	-0.258	0.000	0.05		
4.000	S8072	62	96.813	-0.287	0.000	0.01		
3.001	S8071	62	95.066	-0.494	0.000	0.01		
3.002	S8062	62	94.189	-0.466	0.000	0.03		
1.005	S8063	62	94.049	-0.441	0.000	0.13		60
1.006	S8073	62	94.001	-0.439	0.000	0.13		
1.007	S7022 Headwall	63	93.919	-0.431	0.000	0.15		
1.008	S7023 Headwall	63	93.827	-0.473	0.000	0.10		
1.009	S7024 Control Chamber	51	93.780	-0.270	0.000	0.03		

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	3.2	OK
1.001	S8043	5.5	OK
2.000	S8045	1.7	OK
1.002	S8046	11.3	OK
1.003	S7016	15.0	OK
1.004	S7019	19.9	OK
3.000	S8070	3.2	OK
4.000	S8072	2.2	OK
3.001	S8071	6.1	OK
3.002	S8062	9.1	OK
1.005	S8063	31.6	OK
1.006	S8073	35.1	OK
1.007	S7022 Headwall	35.1	OK*
1.008	S7023 Headwall	35.0	OK*
1.009	S7024 Control Chamber	7.6	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	64	98.491	-0.269	0.000	0.02		
1.001	S8043	64	98.052	-0.258	0.000	0.05		
2.000	S8045	64	99.052	-0.288	0.000	0.01		
1.002	S8046	64	97.715	-0.405	0.000	0.02		
1.003	S7016	64	96.253	-0.402	0.000	0.03		
1.004	S7019	64	95.027	-0.468	0.000	0.03		
3.000	S8070	64	95.470	-0.262	0.000	0.04		
4.000	S8072	64	96.811	-0.289	0.000	0.01		
3.001	S8071	64	95.060	-0.500	0.000	0.01		
3.002	S8062	64	94.185	-0.470	0.000	0.02		
1.005	S8063	64	94.033	-0.457	0.000	0.10		80
1.006	S8073	65	93.984	-0.456	0.000	0.11		
1.007	S7022 Headwall	65	93.902	-0.448	0.000	0.12		
1.008	S7023 Headwall	65	93.814	-0.486	0.000	0.08		
1.009	S7024 Control Chamber	49	93.782	-0.268	0.000	0.03		

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	2.6	OK
1.001	S8043	4.5	OK
2.000	S8045	1.4	OK
1.002	S8046	9.2	OK
1.003	S7016	12.2	OK
1.004	S7019	16.1	OK
3.000	S8070	2.6	OK
4.000	S8072	1.8	OK
3.001	S8071	4.9	OK
3.002	S8062	7.4	OK
1.005	S8063	25.6	OK
1.006	S8073	28.5	OK
1.007	S7022 Headwall	28.5	OK*
1.008	S7023 Headwall	28.5	OK*
1.009	S7024 Control Chamber	7.7	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	67	98.489	-0.271	0.000	0.02		
1.001	S8043	67	98.049	-0.261	0.000	0.04		
2.000	S8045	67	99.050	-0.290	0.000	0.01		
1.002	S8046	67	97.709	-0.411	0.000	0.02		
1.003	S7016	67	96.251	-0.404	0.000	0.02		
1.004	S7019	67	95.024	-0.471	0.000	0.02		
3.000	S8070	67	95.467	-0.265	0.000	0.03		
4.000	S8072	67	96.809	-0.291	0.000	0.01		
3.001	S8071	67	95.056	-0.504	0.000	0.01		
3.002	S8062	67	94.180	-0.475	0.000	0.02		
1.005	S8063	67	94.022	-0.468	0.000	0.09		100
1.006	S8073	67	93.973	-0.467	0.000	0.09		
1.007	S7022 Headwall	67	93.890	-0.460	0.000	0.10		
1.008	S7023 Headwall	67	93.803	-0.497	0.000	0.07		
1.009	S7024 Control Chamber	50	93.782	-0.268	0.000	0.03		

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	2.2	OK
1.001	S8043	3.8	OK
2.000	S8045	1.1	OK
1.002	S8046	7.8	OK
1.003	S7016	10.3	OK
1.004	S7019	13.7	OK
3.000	S8070	2.2	OK
4.000	S8072	1.5	OK
3.001	S8071	4.2	OK
3.002	S8062	6.3	OK
1.005	S8063	21.8	OK
1.006	S8073	24.2	OK
1.007	S7022 Headwall	24.1	OK*
1.008	S7023 Headwall	24.1	OK*
1.009	S7024 Control Chamber	7.7	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	69	98.485	-0.275	0.000	0.02		
1.001	S8043	69	98.046	-0.264	0.000	0.04		
2.000	S8045	69	99.049	-0.291	0.000	0.01		
1.002	S8046	69	97.704	-0.416	0.000	0.02		
1.003	S7016	69	96.246	-0.409	0.000	0.02		
1.004	S7019	69	95.020	-0.475	0.000	0.02		
3.000	S8070	69	95.466	-0.267	0.000	0.03		
4.000	S8072	69	96.808	-0.292	0.000	0.01		
3.001	S8071	69	95.053	-0.507	0.000	0.01		
3.002	S8062	69	94.174	-0.481	0.000	0.02		
1.005	S8063	69	94.014	-0.476	0.000	0.08		120
1.006	S8073	69	93.965	-0.475	0.000	0.08		
1.007	S7022 Headwall	69	93.882	-0.468	0.000	0.09		
1.008	S7023 Headwall	69	93.795	-0.505	0.000	0.06		
1.009	S7024 Control Chamber	52	93.780	-0.270	0.000	0.03		

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	2.0	OK
1.001	S8043	3.3	OK
2.000	S8045	1.0	OK
1.002	S8046	6.8	OK
1.003	S7016	9.1	OK
1.004	S7019	11.9	OK
3.000	S8070	1.9	OK
4.000	S8072	1.3	OK
3.001	S8071	3.7	OK
3.002	S8062	5.5	OK
1.005	S8063	19.0	OK
1.006	S8073	21.2	OK
1.007	S7022 Headwall	21.1	OK*
1.008	S7023 Headwall	21.1	OK*
1.009	S7024 Control Chamber	7.6	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	70	98.480	-0.280	0.000	0.01		
1.001	S8043	70	98.043	-0.267	0.000	0.03		
2.000	S8045	70	99.047	-0.293	0.000	0.01		
1.002	S8046	70	97.698	-0.422	0.000	0.01		
1.003	S7016	70	96.238	-0.417	0.000	0.02		
1.004	S7019	70	95.011	-0.484	0.000	0.02		
3.000	S8070	70	95.463	-0.269	0.000	0.02		
4.000	S8072	70	96.806	-0.294	0.000	0.00		
3.001	S8071	70	95.050	-0.510	0.000	0.01		
3.002	S8062	70	94.166	-0.489	0.000	0.01		
1.005	S8063	70	94.000	-0.490	0.000	0.06		224
1.006	S8073	70	93.952	-0.488	0.000	0.06		
1.007	S7022 Headwall	70	93.871	-0.479	0.000	0.07		
1.008	S7023 Headwall	70	93.785	-0.515	0.000	0.05		
1.009	S7024 Control Chamber	54	93.773	-0.277	0.000	0.03		

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	1.6	OK
1.001	S8043	2.7	OK
2.000	S8045	0.8	OK
1.002	S8046	5.5	OK
1.003	S7016	7.3	OK
1.004	S7019	9.7	OK
3.000	S8070	1.5	OK
4.000	S8072	1.1	OK
3.001	S8071	3.0	OK
3.002	S8062	4.4	OK
1.005	S8063	15.4	OK
1.006	S8073	17.1	OK
1.007	S7022 Headwall	17.1	OK*
1.008	S7023 Headwall	17.1	OK*
1.009	S7024 Control Chamber	7.6	OK

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	72	98.475	-0.285	0.000	0.01		
1.001	S8043	72	98.040	-0.270	0.000	0.02		
2.000	S8045	72	99.046	-0.294	0.000	0.00		
1.002	S8046	72	97.691	-0.429	0.000	0.01		
1.003	S7016	72	96.230	-0.425	0.000	0.01		
1.004	S7019	72	95.000	-0.495	0.000	0.01		
3.000	S8070	72	95.457	-0.276	0.000	0.02		
4.000	S8072	72	96.805	-0.295	0.000	0.00		
3.001	S8071	72	95.046	-0.514	0.000	0.00		
3.002	S8062	72	94.156	-0.499	0.000	0.01		
1.005	S8063	72	93.983	-0.507	0.000	0.05		360
1.006	S8073	72	93.934	-0.506	0.000	0.05		
1.007	S7022 Headwall	72	93.853	-0.497	0.000	0.05		
1.008	S7023 Headwall	72	93.775	-0.525	0.000	0.04		
1.009	S7024 Control Chamber	62	93.758	-0.292	0.000	0.03		

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	1.2	OK
1.001	S8043	2.0	OK
2.000	S8045	0.6	OK
1.002	S8046	4.1	OK
1.003	S7016	5.4	OK
1.004	S7019	7.2	OK
3.000	S8070	1.1	OK
4.000	S8072	0.8	OK
3.001	S8071	2.2	OK
3.002	S8062	3.3	OK
1.005	S8063	11.5	OK
1.006	S8073	12.7	OK
1.007	S7022 Headwall	12.7	OK*
1.008	S7023 Headwall	12.7	OK*
1.009	S7024 Control Chamber	7.5	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	6	98.607	-0.153	0.000	0.47		
1.001	S8043	6	98.248	-0.062	0.000	0.96		
2.000	S8045	6	99.124	-0.216	0.000	0.17		
1.002	S8046	6	97.880	-0.240	0.000	0.43		
1.003	S7016	6	96.439	-0.216	0.000	0.51		
1.004	S7019	7	95.251	-0.244	0.000	0.54		
3.000	S8070	6	95.631	-0.102	0.000	0.76		
4.000	S8072	6	96.877	-0.223	0.000	0.15		
3.001	S8071	7	95.195	-0.365	0.000	0.20		
3.002	S8062	7	95.040	0.385	0.000	0.42		
1.005	S8063	7	95.002	0.512	0.000	1.72		6
1.006	S8073	7	94.836	0.396	0.000	1.73		
1.007	S7022 Headwall	6	94.350	0.000	0.000	1.92		
1.008	S7023 Headwall	11	94.300	0.000	0.000	1.30		
1.009	S7024 Control Chamber	47	93.812	-0.238	0.000	0.03		

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	51.4	OK
1.001	S8043	89.8	OK
2.000	S8045	26.5	OK
1.002	S8046	181.1	OK
1.003	S7016	242.6	OK
1.004	S7019	318.7	OK
3.000	S8070	50.8	OK
4.000	S8072	35.3	OK
3.001	S8071	96.5	OK
3.002	S8062	128.9	SURCHARGED
1.005	S8063	428.2	SURCHARGED
1.006	S8073	466.6	SURCHARGED
1.007	S7022 Headwall	451.5	SURCHARGED*
1.008	S7023 Headwall	451.6	SURCHARGED*
1.009	S7024 Control Chamber	7.8	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	10	98.586	-0.174	0.000	0.37		
1.001	S8043	10	98.205	-0.105	0.000	0.75		
2.000	S8045	10	99.113	-0.227	0.000	0.13		
1.002	S8046	10	97.850	-0.270	0.000	0.33		
1.003	S7016	10	96.403	-0.252	0.000	0.40		
1.004	S7019	10	95.207	-0.288	0.000	0.42		
3.000	S8070	10	95.598	-0.134	0.000	0.59		
4.000	S8072	10	96.868	-0.232	0.000	0.12		
3.001	S8071	10	95.172	-0.388	0.000	0.15		
3.002	S8062	11	94.791	0.136	0.000	0.33		
1.005	S8063	11	94.760	0.270	0.000	1.45		8
1.006	S8073	11	94.657	0.217	0.000	1.47		
1.007	S7022 Headwall	7	94.350	0.000	0.000	1.65		
1.008	S7023 Headwall	20	94.300	0.000	0.000	1.11		
1.009	S7024 Control Chamber	45	93.868	-0.182	0.000	0.03		

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	40.6	OK
1.001	S8043	69.7	OK
2.000	S8045	20.9	OK
1.002	S8046	141.9	OK
1.003	S7016	189.1	OK
1.004	S7019	249.2	OK
3.000	S8070	39.5	OK
4.000	S8072	27.4	OK
3.001	S8071	75.2	OK
3.002	S8062	103.7	SURCHARGED
1.005	S8063	361.5	SURCHARGED
1.006	S8073	397.2	SURCHARGED
1.007	S7022 Headwall	388.3	SURCHARGED*
1.008	S7023 Headwall	386.0	SURCHARGED*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	15	98.560	-0.200	0.000	0.24		
1.001	S8043	15	98.159	-0.151	0.000	0.48		
2.000	S8045	15	99.100	-0.240	0.000	0.09		
1.002	S8046	15	97.813	-0.307	0.000	0.22		
1.003	S7016	15	96.362	-0.293	0.000	0.26		
1.004	S7019	15	95.158	-0.337	0.000	0.27		
3.000	S8070	15	95.562	-0.171	0.000	0.39		
4.000	S8072	15	96.855	-0.245	0.000	0.08		
3.001	S8071	15	95.146	-0.414	0.000	0.10		
3.002	S8062	15	94.523	-0.132	0.000	0.23		
1.005	S8063	15	94.501	0.011	0.000	1.01		12
1.006	S8073	15	94.449	0.009	0.000	1.03		
1.007	S7022 Headwall	21	94.350	0.000	0.000	1.17		
1.008	S7023 Headwall	30	94.107	-0.193	0.000	0.78		
1.009	S7024 Control Chamber	43	93.923	-0.127	0.000	0.03		

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	26.4	OK
1.001	S8043	45.4	OK
2.000	S8045	13.6	OK
1.002	S8046	92.3	OK
1.003	S7016	122.9	OK
1.004	S7019	162.4	OK
3.000	S8070	25.7	OK
4.000	S8072	17.9	OK
3.001	S8071	49.6	OK
3.002	S8062	71.6	OK
1.005	S8063	250.1	SURCHARGED
1.006	S8073	277.9	SURCHARGED
1.007	S7022 Headwall	275.6	OK*
1.008	S7023 Headwall	271.0	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	26	98.537	-0.223	0.000	0.15		
1.001	S8043	25	98.122	-0.188	0.000	0.30		
2.000	S8045	26	99.085	-0.255	0.000	0.05		
1.002	S8046	25	97.779	-0.341	0.000	0.13		
1.003	S7016	25	96.325	-0.330	0.000	0.16		
1.004	S7019	25	95.114	-0.381	0.000	0.17		
3.000	S8070	26	95.531	-0.201	0.000	0.24		
4.000	S8072	26	96.841	-0.259	0.000	0.05		
3.001	S8071	26	95.120	-0.440	0.000	0.06		
3.002	S8062	28	94.315	-0.340	0.000	0.15		
1.005	S8063	32	94.287	-0.203	0.000	0.64		20
1.006	S8073	33	94.235	-0.205	0.000	0.65		
1.007	S7022 Headwall	33	94.140	-0.210	0.000	0.74		
1.008	S7023 Headwall	39	94.003	-0.297	0.000	0.51		
1.009	S7024 Control Chamber	35	93.972	-0.078	0.000	0.03		

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	16.4	OK
1.001	S8043	28.0	OK
2.000	S8045	8.4	OK
1.002	S8046	57.0	OK
1.003	S7016	75.9	OK
1.004	S7019	100.2	OK
3.000	S8070	15.9	OK
4.000	S8072	11.0	OK
3.001	S8071	30.6	OK
3.002	S8062	45.9	OK
1.005	S8063	158.9	OK
1.006	S8073	175.9	OK
1.007	S7022 Headwall	175.2	OK*
1.008	S7023 Headwall	175.7	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	31	98.526	-0.234	0.000	0.11		
1.001	S8043	31	98.106	-0.204	0.000	0.22		
2.000	S8045	31	99.079	-0.261	0.000	0.04		
1.002	S8046	31	97.765	-0.355	0.000	0.10		
1.003	S7016	31	96.308	-0.347	0.000	0.12		
1.004	S7019	31	95.093	-0.402	0.000	0.13		
3.000	S8070	31	95.517	-0.215	0.000	0.18		
4.000	S8072	31	96.836	-0.264	0.000	0.03		
3.001	S8071	31	95.107	-0.453	0.000	0.05		
3.002	S8062	40	94.267	-0.388	0.000	0.11		
1.005	S8063	40	94.219	-0.271	0.000	0.48		30
1.006	S8073	39	94.168	-0.272	0.000	0.49		
1.007	S7022 Headwall	39	94.077	-0.273	0.000	0.56		
1.008	S7023 Headwall	41	93.997	-0.303	0.000	0.38		
1.009	S7024 Control Chamber	29	93.996	-0.054	0.000	0.03		

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	12.2	OK
1.001	S8043	20.9	OK
2.000	S8045	6.3	OK
1.002	S8046	42.6	OK
1.003	S7016	56.6	OK
1.004	S7019	74.7	OK
3.000	S8070	11.8	OK
4.000	S8072	8.2	OK
3.001	S8071	22.8	OK
3.002	S8062	34.2	OK
1.005	S8063	118.5	OK
1.006	S8073	131.8	OK
1.007	S7022 Headwall	131.6	OK*
1.008	S7023 Headwall	131.2	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	36	98.520	-0.240	0.000	0.09		
1.001	S8043	36	98.095	-0.215	0.000	0.18		
2.000	S8045	36	99.075	-0.265	0.000	0.03		
1.002	S8046	36	97.755	-0.365	0.000	0.08		
1.003	S7016	36	96.298	-0.357	0.000	0.10		
1.004	S7019	36	95.081	-0.414	0.000	0.10		
3.000	S8070	36	95.507	-0.225	0.000	0.14		
4.000	S8072	36	96.833	-0.267	0.000	0.03		
3.001	S8071	36	95.100	-0.460	0.000	0.04		
3.002	S8062	42	94.244	-0.411	0.000	0.09		
1.005	S8063	42	94.180	-0.310	0.000	0.38		40
1.006	S8073	42	94.130	-0.310	0.000	0.39		
1.007	S7022 Headwall	42	94.041	-0.309	0.000	0.45		
1.008	S7023 Headwall	37	94.011	-0.289	0.000	0.31		
1.009	S7024 Control Chamber	28	94.010	-0.040	0.000	0.03		

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	9.8	OK
1.001	S8043	16.8	OK
2.000	S8045	5.1	OK
1.002	S8046	34.1	OK
1.003	S7016	45.5	OK
1.004	S7019	60.0	OK
3.000	S8070	9.5	OK
4.000	S8072	6.6	OK
3.001	S8071	18.3	OK
3.002	S8062	27.5	OK
1.005	S8063	95.5	OK
1.006	S8073	106.0	OK
1.007	S7022 Headwall	105.8	OK*
1.008	S7023 Headwall	105.9	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	44	98.510	-0.250	0.000	0.07		
1.001	S8043	43	98.082	-0.228	0.000	0.13		
2.000	S8045	44	99.071	-0.269	0.000	0.02		
1.002	S8046	43	97.740	-0.380	0.000	0.06		
1.003	S7016	43	96.283	-0.372	0.000	0.07		
1.004	S7019	43	95.064	-0.431	0.000	0.07		
3.000	S8070	44	95.497	-0.236	0.000	0.10		
4.000	S8072	44	96.829	-0.271	0.000	0.02		
3.001	S8071	43	95.092	-0.468	0.000	0.03		
3.002	S8062	46	94.219	-0.436	0.000	0.06		
1.005	S8063	46	94.134	-0.356	0.000	0.28		60
1.006	S8073	46	94.085	-0.355	0.000	0.29		
1.007	S7022 Headwall	46	94.026	-0.324	0.000	0.33		
1.008	S7023 Headwall	34	94.025	-0.275	0.000	0.22		
1.009	S7024 Control Chamber	24	94.024	-0.026	0.000	0.03		

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	7.2	OK
1.001	S8043	12.2	OK
2.000	S8045	3.7	OK
1.002	S8046	24.9	OK
1.003	S7016	33.2	OK
1.004	S7019	43.8	OK
3.000	S8070	6.9	OK
4.000	S8072	4.8	OK
3.001	S8071	13.4	OK
3.002	S8062	20.1	OK
1.005	S8063	69.8	OK
1.006	S8073	77.6	OK
1.007	S7022 Headwall	77.5	OK*
1.008	S7023 Headwall	77.5	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	50	98.504	-0.256	0.000	0.05		
1.001	S8043	50	98.074	-0.236	0.000	0.10		
2.000	S8045	50	99.067	-0.273	0.000	0.02		
1.002	S8046	50	97.732	-0.388	0.000	0.05		
1.003	S7016	50	96.273	-0.382	0.000	0.06		
1.004	S7019	50	95.052	-0.443	0.000	0.06		
3.000	S8070	50	95.490	-0.242	0.000	0.08		
4.000	S8072	50	96.823	-0.277	0.000	0.02		
3.001	S8071	50	95.088	-0.472	0.000	0.02		
3.002	S8062	51	94.206	-0.449	0.000	0.05		
1.005	S8063	51	94.107	-0.383	0.000	0.22		112
1.006	S8073	50	94.059	-0.381	0.000	0.23		
1.007	S7022 Headwall	44	94.031	-0.319	0.000	0.26		
1.008	S7023 Headwall	32	94.029	-0.271	0.000	0.18		
1.009	S7024 Control Chamber	22	94.029	-0.021	0.000	0.03		

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	5.7	OK
1.001	S8043	9.8	OK
2.000	S8045	2.9	OK
1.002	S8046	19.9	OK
1.003	S7016	26.5	OK
1.004	S7019	35.0	OK
3.000	S8070	5.6	OK
4.000	S8072	3.9	OK
3.001	S8071	10.7	OK
3.002	S8062	16.1	OK
1.005	S8063	55.8	OK
1.006	S8073	62.0	OK
1.007	S7022 Headwall	61.7	OK*
1.008	S7023 Headwall	61.3	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	53	98.500	-0.260	0.000	0.04		
1.001	S8043	53	98.070	-0.240	0.000	0.09		
2.000	S8045	53	99.063	-0.277	0.000	0.02		
1.002	S8046	53	97.727	-0.393	0.000	0.04		
1.003	S7016	53	96.267	-0.388	0.000	0.05		
1.004	S7019	53	95.045	-0.450	0.000	0.05		
3.000	S8070	53	95.484	-0.248	0.000	0.07		
4.000	S8072	53	96.819	-0.281	0.000	0.01		
3.001	S8071	53	95.080	-0.480	0.000	0.02		
3.002	S8062	54	94.200	-0.455	0.000	0.04		
1.005	S8063	54	94.088	-0.402	0.000	0.19		300
1.006	S8073	54	94.042	-0.398	0.000	0.19		
1.007	S7022 Headwall	45	94.029	-0.321	0.000	0.22		
1.008	S7023 Headwall	33	94.027	-0.273	0.000	0.15		
1.009	S7024 Control Chamber	23	94.026	-0.024	0.000	0.03		

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	4.8	OK
1.001	S8043	8.2	OK
2.000	S8045	2.5	OK
1.002	S8046	16.7	OK
1.003	S7016	22.3	OK
1.004	S7019	29.4	OK
3.000	S8070	4.7	OK
4.000	S8072	3.2	OK
3.001	S8071	9.0	OK
3.002	S8062	13.5	OK
1.005	S8063	46.9	OK
1.006	S8073	52.1	OK
1.007	S7022 Headwall	51.9	OK*
1.008	S7023 Headwall	51.5	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	58	98.497	-0.263	0.000	0.04		
1.001	S8043	58	98.065	-0.245	0.000	0.08		
2.000	S8045	58	99.060	-0.280	0.000	0.01		
1.002	S8046	58	97.724	-0.396	0.000	0.03		
1.003	S7016	58	96.263	-0.392	0.000	0.04		
1.004	S7019	58	95.040	-0.455	0.000	0.04		
3.000	S8070	58	95.480	-0.252	0.000	0.06		
4.000	S8072	58	96.817	-0.283	0.000	0.01		
3.001	S8071	58	95.074	-0.486	0.000	0.02		
3.002	S8062	58	94.195	-0.460	0.000	0.04		
1.005	S8063	58	94.075	-0.415	0.000	0.16		360
1.006	S8073	56	94.029	-0.411	0.000	0.17		
1.007	S7022 Headwall	47	94.024	-0.326	0.000	0.19		
1.008	S7023 Headwall	35	94.023	-0.277	0.000	0.13		
1.009	S7024 Control Chamber	25	94.022	-0.028	0.000	0.03		

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	4.2	OK
1.001	S8043	7.1	OK
2.000	S8045	2.1	OK
1.002	S8046	14.5	OK
1.003	S7016	19.3	OK
1.004	S7019	25.5	OK
3.000	S8070	4.0	OK
4.000	S8072	2.8	OK
3.001	S8071	7.8	OK
3.002	S8062	11.7	OK
1.005	S8063	40.7	OK
1.006	S8073	45.2	OK
1.007	S7022 Headwall	45.0	OK*
1.008	S7023 Headwall	44.7	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	60	98.494	-0.266	0.000	0.03		
1.001	S8043	60	98.058	-0.252	0.000	0.06		
2.000	S8045	60	99.056	-0.284	0.000	0.01		
1.002	S8046	60	97.719	-0.401	0.000	0.03		
1.003	S7016	60	96.258	-0.397	0.000	0.03		
1.004	S7019	60	95.033	-0.462	0.000	0.03		
3.000	S8070	60	95.474	-0.258	0.000	0.05		
4.000	S8072	60	96.813	-0.287	0.000	0.01		
3.001	S8071	60	95.066	-0.494	0.000	0.01		
3.002	S8062	60	94.190	-0.465	0.000	0.03		
1.005	S8063	60	94.055	-0.435	0.000	0.13		464
1.006	S8073	59	94.017	-0.423	0.000	0.13		
1.007	S7022 Headwall	49	94.014	-0.336	0.000	0.15		
1.008	S7023 Headwall	36	94.012	-0.288	0.000	0.10		
1.009	S7024 Control Chamber	27	94.012	-0.038	0.000	0.03		

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	3.3	OK
1.001	S8043	5.7	OK
2.000	S8045	1.7	OK
1.002	S8046	11.6	OK
1.003	S7016	15.4	OK
1.004	S7019	20.4	OK
3.000	S8070	3.2	OK
4.000	S8072	2.2	OK
3.001	S8071	6.2	OK
3.002	S8062	9.4	OK
1.005	S8063	32.4	OK
1.006	S8073	36.0	OK
1.007	S7022 Headwall	35.9	OK*
1.008	S7023 Headwall	35.6	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	66	98.490	-0.270	0.000	0.02		
1.001	S8043	66	98.050	-0.260	0.000	0.04		
2.000	S8045	66	99.051	-0.289	0.000	0.01		
1.002	S8046	66	97.712	-0.408	0.000	0.02		
1.003	S7016	66	96.252	-0.403	0.000	0.02		
1.004	S7019	66	95.025	-0.470	0.000	0.02		
3.000	S8070	66	95.469	-0.264	0.000	0.04		
4.000	S8072	66	96.810	-0.290	0.000	0.01		
3.001	S8071	66	95.058	-0.502	0.000	0.01		
3.002	S8062	66	94.183	-0.472	0.000	0.02		
1.005	S8063	66	94.029	-0.461	0.000	0.09		408
1.006	S8073	64	93.993	-0.447	0.000	0.10		
1.007	S7022 Headwall	53	93.988	-0.362	0.000	0.11		
1.008	S7023 Headwall	43	93.986	-0.314	0.000	0.07		
1.009	S7024 Control Chamber	30	93.986	-0.064	0.000	0.03		

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	2.4	OK
1.001	S8043	4.1	OK
2.000	S8045	1.2	OK
1.002	S8046	8.4	OK
1.003	S7016	11.2	OK
1.004	S7019	14.8	OK
3.000	S8070	2.3	OK
4.000	S8072	1.6	OK
3.001	S8071	4.5	OK
3.002	S8062	6.8	OK
1.005	S8063	23.6	OK
1.006	S8073	26.2	OK
1.007	S7022 Headwall	26.1	OK*
1.008	S7023 Headwall	25.9	OK*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	1	99.004	0.244	0.000	0.84		
1.001	S8043	1	98.677	0.367	0.000	1.69		
2.000	S8045	1	99.156	-0.184	0.000	0.31		
1.002	S8046	1	97.989	-0.131	0.000	0.76		
1.003	S7016	1	97.253	0.598	0.000	0.81		
1.004	S7019	1	96.504	1.009	0.000	0.82		
3.000	S8070	1	96.220	0.487	0.000	1.30		
4.000	S8072	1	96.906	-0.194	0.000	0.27		
3.001	S8071	1	96.027	0.467	0.000	0.30		
3.002	S8062	1	95.969	1.314	0.000	0.69		
1.005	S8063	1	95.923	1.433	0.000	2.47		5
1.006	S8073	1	95.552	1.112	0.000	2.42		
1.007	S7022 Headwall	20	94.350	0.000	0.000	2.76		
1.008	S7023 Headwall	12	94.300	0.000	0.000	1.87		
1.009	S7024 Control Chamber	36	93.968	-0.082	0.000	0.03		

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	92.9	SURCHARGED
1.001	S8043	158.4	SURCHARGED
2.000	S8045	48.2	OK
1.002	S8046	321.9	OK
1.003	S7016	382.7	SURCHARGED
1.004	S7019	485.7	SURCHARGED
3.000	S8070	86.5	SURCHARGED
4.000	S8072	64.2	OK
3.001	S8071	148.2	SURCHARGED
3.002	S8062	214.9	FLOOD RISK
1.005	S8063	614.5	FLOOD RISK
1.006	S8073	653.2	FLOOD RISK
1.007	S7022 Headwall	649.6	SURCHARGED*
1.008	S7023 Headwall	649.2	SURCHARGED*
1.009	S7024 Control Chamber	8.0	OK

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	4	98.660	-0.100	0.000	0.67		
1.001	S8043	4	98.455	0.145	0.000	1.35		
2.000	S8045	4	99.141	-0.199	0.000	0.25		
1.002	S8046	4	97.925	-0.195	0.000	0.61		
1.003	S7016	4	96.661	0.006	0.000	0.70		
1.004	S7019	4	96.150	0.655	0.000	0.71		
3.000	S8070	4	95.951	0.219	0.000	1.06		
4.000	S8072	4	96.893	-0.207	0.000	0.21		
3.001	S8071	4	95.816	0.256	0.000	0.24		
3.002	S8062	4	95.772	1.117	0.000	0.57		
1.005	S8063	4	95.727	1.237	0.000	2.29		5
1.006	S8073	4	95.407	0.967	0.000	2.29		
1.007	S7022 Headwall	13	94.350	0.000	0.000	2.62		
1.008	S7023 Headwall	13	94.300	0.000	0.000	1.77		
1.009	S7024 Control Chamber	21	94.066	0.016	0.000	0.03		

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	73.9	OK
1.001	S8043	126.2	SURCHARGED
2.000	S8045	38.3	OK
1.002	S8046	256.8	OK
1.003	S7016	330.4	SURCHARGED
1.004	S7019	420.6	SURCHARGED
3.000	S8070	70.7	SURCHARGED
4.000	S8072	50.1	OK
3.001	S8071	120.4	SURCHARGED
3.002	S8062	176.4	SURCHARGED
1.005	S8063	568.9	FLOOD RISK
1.006	S8073	618.9	SURCHARGED
1.007	S7022 Headwall	616.5	SURCHARGED*
1.008	S7023 Headwall	616.0	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	8	98.600	-0.160	0.000	0.44		
1.001	S8043	8	98.233	-0.077	0.000	0.89		
2.000	S8045	8	99.121	-0.219	0.000	0.16		
1.002	S8046	8	97.870	-0.250	0.000	0.40		
1.003	S7016	8	96.427	-0.228	0.000	0.48		
1.004	S7019	6	95.398	-0.097	0.000	0.50		
3.000	S8070	8	95.621	-0.112	0.000	0.71		
4.000	S8072	8	96.874	-0.226	0.000	0.14		
3.001	S8071	6	95.237	-0.323	0.000	0.18		
3.002	S8062	6	95.193	0.538	0.000	0.41		
1.005	S8063	6	95.155	0.665	0.000	1.80		12
1.006	S8073	6	94.955	0.515	0.000	1.83		
1.007	S7022 Headwall	14	94.350	0.000	0.000	2.09		
1.008	S7023 Headwall	14	94.300	0.000	0.000	1.42		
1.009	S7024 Control Chamber	19	94.161	0.111	0.000	0.03		

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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	48.6	OK
1.001	S8043	83.3	OK
2.000	S8045	25.1	OK
1.002	S8046	169.9	OK
1.003	S7016	226.2	OK
1.004	S7019	294.9	OK
3.000	S8070	47.3	OK
4.000	S8072	33.0	OK
3.001	S8071	90.8	OK
3.002	S8062	128.4	SURCHARGED
1.005	S8063	447.8	SURCHARGED
1.006	S8073	495.3	SURCHARGED
1.007	S7022 Headwall	492.3	SURCHARGED*
1.008	S7023 Headwall	491.4	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	13	98.566	-0.194	0.000	0.27		
1.001	S8043	13	98.169	-0.141	0.000	0.55		
2.000	S8045	13	99.103	-0.237	0.000	0.10		
1.002	S8046	13	97.821	-0.299	0.000	0.25		
1.003	S7016	13	96.372	-0.283	0.000	0.30		
1.004	S7019	13	95.170	-0.325	0.000	0.31		
3.000	S8070	13	95.571	-0.161	0.000	0.44		
4.000	S8072	13	96.859	-0.241	0.000	0.09		
3.001	S8071	13	95.153	-0.407	0.000	0.11		
3.002	S8062	13	94.592	-0.063	0.000	0.27		
1.005	S8063	13	94.567	0.077	0.000	1.17		24
1.006	S8073	13	94.497	0.057	0.000	1.20		
1.007	S7022 Headwall	15	94.350	0.000	0.000	1.37		
1.008	S7023 Headwall	27	94.249	-0.051	0.000	0.93		
1.009	S7024 Control Chamber	16	94.248	0.198	0.000	0.03		

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Summary Wizard of 120 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	30.1	OK
1.001	S8043	51.5	OK
2.000	S8045	15.5	OK
1.002	S8046	104.9	OK
1.003	S7016	139.7	OK
1.004	S7019	184.4	OK
3.000	S8070	29.2	OK
4.000	S8072	20.3	OK
3.001	S8071	56.3	OK
3.002	S8062	83.7	OK
1.005	S8063	291.6	SURCHARGED
1.006	S8073	323.3	SURCHARGED
1.007	S7022 Headwall	321.3	SURCHARGED*
1.008	S7023 Headwall	322.4	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	17	98.551	-0.209	0.000	0.20		
1.001	S8043	17	98.143	-0.167	0.000	0.41		
2.000	S8045	17	99.094	-0.246	0.000	0.07		
1.002	S8046	17	97.800	-0.320	0.000	0.18		
1.003	S7016	17	96.348	-0.307	0.000	0.22		
1.004	S7019	17	95.140	-0.355	0.000	0.23		
3.000	S8070	17	95.550	-0.182	0.000	0.33		
4.000	S8072	17	96.849	-0.251	0.000	0.06		
3.001	S8071	17	95.137	-0.423	0.000	0.08		
3.002	S8062	17	94.434	-0.221	0.000	0.20		
1.005	S8063	17	94.416	-0.074	0.000	0.86		231
1.006	S8073	23	94.361	-0.079	0.000	0.88		
1.007	S7022 Headwall	24	94.313	-0.037	0.000	1.00		
1.008	S7023 Headwall	22	94.300	0.000	0.000	0.68		
1.009	S7024 Control Chamber	12	94.293	0.243	0.000	0.03		

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Summary Wizard of 180 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	22.4	OK
1.001	S8043	38.3	OK
2.000	S8045	11.6	OK
1.002	S8046	78.0	OK
1.003	S7016	103.9	OK
1.004	S7019	137.0	OK
3.000	S8070	21.7	OK
4.000	S8072	15.1	OK
3.001	S8071	41.9	OK
3.002	S8062	61.9	OK
1.005	S8063	214.9	OK
1.006	S8073	237.5	OK
1.007	S7022 Headwall	235.2	OK*
1.008	S7023 Headwall	235.2	OK*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

WARNING: Half Drain Time has not been calculated as the structure is too full.

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	22	98.541	-0.219	0.000	0.16		
1.001	S8043	21	98.128	-0.182	0.000	0.33		
2.000	S8045	22	99.087	-0.253	0.000	0.06		
1.002	S8046	21	97.784	-0.336	0.000	0.15		
1.003	S7016	21	96.331	-0.324	0.000	0.18		
1.004	S7019	20	95.122	-0.373	0.000	0.18		
3.000	S8070	22	95.536	-0.196	0.000	0.26		
4.000	S8072	22	96.843	-0.257	0.000	0.05		
3.001	S8071	22	95.124	-0.436	0.000	0.07		
3.002	S8062	25	94.349	-0.306	0.000	0.16		
1.005	S8063	25	94.347	-0.143	0.000	0.70		
1.006	S8073	24	94.343	-0.097	0.000	0.72		
1.007	S7022 Headwall	23	94.337	-0.013	0.000	0.82		
1.008	S7023 Headwall	15	94.300	0.000	0.000	0.55		
1.009	S7024 Control Chamber	7	94.321	0.271	0.000	0.03		

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Summary Wizard of 240 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	17.9	OK
1.001	S8043	30.6	OK
2.000	S8045	9.2	OK
1.002	S8046	62.4	OK
1.003	S7016	83.1	OK
1.004	S7019	109.6	OK
3.000	S8070	17.4	OK
4.000	S8072	12.1	OK
3.001	S8071	33.5	OK
3.002	S8062	50.2	OK
1.005	S8063	174.3	OK
1.006	S8073	193.4	OK
1.007	S7022 Headwall	192.6	OK*
1.008	S7023 Headwall	190.6	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

WARNING: Half Drain Time has not been calculated as the structure is too full.

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	30	98.528	-0.232	0.000	0.12		
1.001	S8043	30	98.109	-0.201	0.000	0.24		
2.000	S8045	30	99.080	-0.260	0.000	0.04		
1.002	S8046	30	97.768	-0.352	0.000	0.11		
1.003	S7016	29	96.311	-0.344	0.000	0.13		
1.004	S7019	29	95.097	-0.398	0.000	0.13		
3.000	S8070	30	95.520	-0.212	0.000	0.19		
4.000	S8072	30	96.837	-0.263	0.000	0.04		
3.001	S8071	30	95.109	-0.451	0.000	0.05		
3.002	S8062	24	94.367	-0.288	0.000	0.12		
1.005	S8063	23	94.365	-0.125	0.000	0.51		
1.006	S8073	22	94.362	-0.078	0.000	0.52		
1.007	S7022 Headwall	18	94.350	0.000	0.000	0.59		
1.008	S7023 Headwall	16	94.300	0.000	0.000	0.39		
1.009	S7024 Control Chamber	6	94.355	0.305	0.000	0.03		

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	13.0	OK
1.001	S8043	22.2	OK
2.000	S8045	6.7	OK
1.002	S8046	45.3	OK
1.003	S7016	60.3	OK
1.004	S7019	79.6	OK
3.000	S8070	12.6	OK
4.000	S8072	8.7	OK
3.001	S8071	24.3	OK
3.002	S8062	36.5	OK
1.005	S8063	126.3	OK
1.006	S8073	140.1	OK
1.007	S7022 Headwall	138.9	SURCHARGED*
1.008	S7023 Headwall	136.9	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

WARNING: Half Drain Time has not been calculated as the structure is too full.

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	34	98.522	-0.238	0.000	0.09		
1.001	S8043	34	98.098	-0.212	0.000	0.19		
2.000	S8045	34	99.076	-0.264	0.000	0.03		
1.002	S8046	34	97.758	-0.362	0.000	0.09		
1.003	S7016	34	96.300	-0.355	0.000	0.10		
1.004	S7019	34	95.084	-0.411	0.000	0.11		
3.000	S8070	34	95.509	-0.223	0.000	0.15		
4.000	S8072	34	96.834	-0.266	0.000	0.03		
3.001	S8071	34	95.102	-0.458	0.000	0.04		
3.002	S8062	21	94.383	-0.272	0.000	0.09		
1.005	S8063	21	94.382	-0.108	0.000	0.40		
1.006	S8073	20	94.379	-0.061	0.000	0.41		
1.007	S7022 Headwall	19	94.350	0.000	0.000	0.47		
1.008	S7023 Headwall	17	94.300	0.000	0.000	0.31		
1.009	S7024 Control Chamber	4	94.374	0.324	0.000	0.03		

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Summary Wizard of 480 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	10.3	OK
1.001	S8043	17.7	OK
2.000	S8045	5.3	OK
1.002	S8046	36.1	OK
1.003	S7016	48.0	OK
1.004	S7019	63.4	OK
3.000	S8070	10.0	OK
4.000	S8072	7.0	OK
3.001	S8071	19.4	OK
3.002	S8062	29.1	OK
1.005	S8063	100.5	OK
1.006	S8073	111.4	OK
1.007	S7022 Headwall	110.3	SURCHARGED*
1.008	S7023 Headwall	108.5	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	39	98.516	-0.244	0.000	0.08		
1.001	S8043	39	98.089	-0.221	0.000	0.16		
2.000	S8045	39	99.073	-0.267	0.000	0.03		
1.002	S8046	39	97.748	-0.372	0.000	0.07		
1.003	S7016	39	96.293	-0.362	0.000	0.09		
1.004	S7019	39	95.075	-0.420	0.000	0.09		
3.000	S8070	39	95.503	-0.230	0.000	0.13		
4.000	S8072	39	96.832	-0.268	0.000	0.02		
3.001	S8071	39	95.097	-0.463	0.000	0.03		
3.002	S8062	20	94.392	-0.263	0.000	0.08		
1.005	S8063	20	94.391	-0.099	0.000	0.34		620
1.006	S8073	19	94.388	-0.052	0.000	0.35		
1.007	S7022 Headwall	17	94.350	0.000	0.000	0.39		
1.008	S7023 Headwall	18	94.300	0.000	0.000	0.26		
1.009	S7024 Control Chamber	3	94.384	0.334	0.000	0.03		

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	8.7	OK
1.001	S8043	14.8	OK
2.000	S8045	4.5	OK
1.002	S8046	30.2	OK
1.003	S7016	40.2	OK
1.004	S7019	53.1	OK
3.000	S8070	8.4	OK
4.000	S8072	5.8	OK
3.001	S8071	16.2	OK
3.002	S8062	24.3	OK
1.005	S8063	84.3	OK
1.006	S8073	93.3	OK
1.007	S7022 Headwall	92.3	SURCHARGED*
1.008	S7023 Headwall	90.8	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 0.405
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 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
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	42	98.511	-0.249	0.000	0.07		
1.001	S8043	42	98.083	-0.227	0.000	0.14		
2.000	S8045	42	99.072	-0.268	0.000	0.02		
1.002	S8046	42	97.742	-0.378	0.000	0.06		
1.003	S7016	42	96.285	-0.370	0.000	0.07		
1.004	S7019	42	95.066	-0.429	0.000	0.08		
3.000	S8070	42	95.498	-0.234	0.000	0.11		
4.000	S8072	42	96.830	-0.270	0.000	0.02		
3.001	S8071	42	95.093	-0.467	0.000	0.03		
3.002	S8062	18	94.395	-0.260	0.000	0.07		
1.005	S8063	18	94.395	-0.095	0.000	0.29		624
1.006	S8073	17	94.393	-0.047	0.000	0.30		
1.007	S7022 Headwall	16	94.350	0.000	0.000	0.34		
1.008	S7023 Headwall	19	94.300	0.000	0.000	0.23		
1.009	S7024 Control Chamber	2	94.388	0.338	0.000	0.03		

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Summary Wizard of 720 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	7.5	OK
1.001	S8043	12.8	OK
2.000	S8045	3.9	OK
1.002	S8046	26.1	OK
1.003	S7016	34.8	OK
1.004	S7019	45.9	OK
3.000	S8070	7.3	OK
4.000	S8072	5.0	OK
3.001	S8071	14.0	OK
3.002	S8062	21.0	OK
1.005	S8063	72.8	OK
1.006	S8073	80.6	OK
1.007	S7022 Headwall	79.7	SURCHARGED*
1.008	S7023 Headwall	78.4	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	47	98.505	-0.255	0.000	0.05		
1.001	S8043	47	98.076	-0.234	0.000	0.11		
2.000	S8045	47	99.068	-0.272	0.000	0.02		
1.002	S8046	47	97.734	-0.386	0.000	0.05		
1.003	S7016	47	96.275	-0.380	0.000	0.06		
1.004	S7019	47	95.054	-0.441	0.000	0.06		
3.000	S8070	47	95.491	-0.241	0.000	0.09		
4.000	S8072	47	96.824	-0.276	0.000	0.02		
3.001	S8071	47	95.089	-0.471	0.000	0.02		
3.002	S8062	19	94.395	-0.260	0.000	0.05		
1.005	S8063	19	94.394	-0.096	0.000	0.23		656
1.006	S8073	18	94.392	-0.048	0.000	0.24		
1.007	S7022 Headwall	5	94.350	0.000	0.000	0.27		
1.008	S7023 Headwall	7	94.300	0.000	0.000	0.18		
1.009	S7024 Control Chamber	1	94.389	0.339	0.000	0.03		

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	5.9	OK
1.001	S8043	10.2	OK
2.000	S8045	3.1	OK
1.002	S8046	20.7	OK
1.003	S7016	27.6	OK
1.004	S7019	36.4	OK
3.000	S8070	5.8	OK
4.000	S8072	4.0	OK
3.001	S8071	11.1	OK
3.002	S8062	16.7	OK
1.005	S8063	57.8	OK
1.006	S8073	64.0	OK
1.007	S7022 Headwall	63.2	SURCHARGED*
1.008	S7023 Headwall	62.2	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 6

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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	0.405
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	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
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	S8042	57	98.498	-0.262	0.000	0.04		
1.001	S8043	57	98.066	-0.244	0.000	0.08		
2.000	S8045	57	99.060	-0.280	0.000	0.01		
1.002	S8046	57	97.724	-0.396	0.000	0.04		
1.003	S7016	57	96.264	-0.391	0.000	0.04		
1.004	S7019	57	95.041	-0.454	0.000	0.04		
3.000	S8070	57	95.481	-0.252	0.000	0.06		
4.000	S8072	57	96.817	-0.283	0.000	0.01		
3.001	S8071	57	95.075	-0.485	0.000	0.02		
3.002	S8062	23	94.373	-0.282	0.000	0.04		
1.005	S8063	22	94.373	-0.117	0.000	0.17		648
1.006	S8073	21	94.372	-0.068	0.000	0.17		
1.007	S7022 Headwall	1	94.350	0.000	0.000	0.19		
1.008	S7023 Headwall	1	94.300	0.000	0.000	0.13		
1.009	S7024 Control Chamber	5	94.368	0.318	0.000	0.03		

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Summary Wizard of 1440 minute 100 year Winter I+40% for Surface Network 6

PN	US/MH Name	Pipe Flow (l/s)	Status
1.000	S8042	4.3	OK
1.001	S8043	7.3	OK
2.000	S8045	2.2	OK
1.002	S8046	15.0	OK
1.003	S7016	19.9	OK
1.004	S7019	26.3	OK
3.000	S8070	4.2	OK
4.000	S8072	2.9	OK
3.001	S8071	8.0	OK
3.002	S8062	12.1	OK
1.005	S8063	41.7	OK
1.006	S8073	46.2	OK
1.007	S7022 Headwall	45.6	SURCHARGED*
1.008	S7023 Headwall	44.9	SURCHARGED*
1.009	S7024 Control Chamber	8.0	SURCHARGED

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