

JS Bloor (Wilmslow) Ltd		Page 0
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STORM SEWER DESIGN by the Modified Rational Method

Pipe Sizes STANDARD Manhole Sizes STANDARD

Designed with Level Soffits

« - Indicates pipe capacity < flow

Network Results Table

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Network Design Table for Surface Network 4

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
1.004	38.768	0.078	497.0	0.185	0.00	0.0	0.600	o	600	Pipe/Conduit	
4.000	26.077	1.030	25.3	0.135	5.00	0.0	0.600	o	300	Pipe/Conduit	
4.001	32.208	0.740	43.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.005	20.022	0.040	500.5	0.093	0.00	0.0	0.600	o	600	Pipe/Conduit	
5.000	56.434	0.554	101.9	0.104	5.00	0.0	0.600	o	375	Pipe/Conduit	
1.006	49.499	0.741	66.8	0.189	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.007	21.990	0.044	499.8	0.114	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.008	23.168	0.080	289.6	0.287	0.00	0.0	0.600	ooo	46	Pipe/Conduit	
1.009	87.576	0.210	417.0	0.086	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.010	19.277	0.040	481.9	0.024	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.011	41.556	0.083	500.7	0.064	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.012	18.054	0.097	186.1	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.013	30.881	0.000	0.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
6.000	37.185	0.490	75.9	0.237	5.00	0.0	0.600	o	375	Pipe/Conduit	
6.001	17.625	0.181	97.6	0.124	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.002	42.117	0.109	385.0	0.017	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.003	18.109	0.351	51.5	0.080	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)
1.004	50.00	6.40	96.008	0.787	0.0	0.0	0.0	1.09	306.9	106.5
4.000	50.00	5.14	98.000	0.135	0.0	0.0	0.0	3.14	221.8	18.3
4.001	50.00	5.36	96.970	0.135	0.0	0.0	0.0	2.39	168.9	18.3
1.005	50.00	6.71	95.930	1.015	0.0	0.0	0.0	1.08	305.8	137.4
5.000	50.00	5.52	96.637	0.104	0.0	0.0	0.0	1.80	198.3	14.1
1.006	50.00	6.99	95.890	1.308	0.0	0.0	0.0	2.98	843.3	177.1
1.007	50.00	7.30	95.074	1.422	0.0	0.0	0.0	1.17	417.1	192.5
1.008	50.00	7.67	95.030	1.708	0.0	0.0	0.0	1.06	350.5	231.3
1.009	50.00	8.81	94.950	1.794	0.0	0.0	0.0	1.28	457.0	243.0
1.010	50.00	9.08	94.740	1.818	0.0	0.0	0.0	1.19	424.8	246.2
1.011	50.00	9.68	94.700	1.882	0.0	0.0	0.0	1.16	416.7	254.8
1.012	49.67	9.83	94.617	1.882	0.0	0.0	0.0	1.92	686.3	254.8
1.013	44.48	12.02	94.595	1.882	0.0	0.0	0.0	0.23	66.4«	254.8
6.000	50.00	5.30	96.725	0.237	0.0	0.0	0.0	2.08	229.9	32.1
6.001	50.00	5.44	96.160	0.361	0.0	0.0	0.0	2.06	327.3	48.9
6.002	50.00	6.12	95.979	0.378	0.0	0.0	0.0	1.03	163.8	51.2
6.003	50.00	6.23	95.870	0.458	0.0	0.0	0.0	2.84	451.2	62.0

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Network Design Table for Surface Network 4

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
7.000	31.269	0.100	313.0	0.153	5.00	0.0	0.600	o	375	Pipe/Conduit	
6.004	28.670	0.375	76.5	0.127	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.005	32.335	0.084	385.0	0.025	0.00	0.0	0.600	o	450	Pipe/Conduit	
8.000	13.598	0.043	313.0	0.094	5.00	0.0	0.600	o	375	Pipe/Conduit	
6.006	30.932	0.146	212.3	0.100	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.007	48.896	0.164	297.6	0.116	0.00	0.0	0.600	o	525	Pipe/Conduit	
6.008	8.369	0.080	104.6	0.063	0.00	0.0	0.600	o	600	Pipe/Conduit	
6.009	23.968	0.000	0.0	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.014	6.033	0.020	301.7	0.000	0.00	0.0	0.600	o	675	Pipe/Conduit	
1.015	12.463	0.050	249.3	0.000	0.00	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)
7.000	50.00	5.51	95.694	0.153	0.0	0.0	0.0	1.02	112.5	20.7
6.004	50.00	6.43	95.519	0.738	0.0	0.0	0.0	2.33	369.9	99.9
6.005	50.00	6.96	95.144	0.762	0.0	0.0	0.0	1.03	163.8	103.2
8.000	50.00	5.22	95.178	0.094	0.0	0.0	0.0	1.02	112.5	12.8
6.006	50.00	7.33	95.060	0.957	0.0	0.0	0.0	1.39	221.3	129.6
6.007	50.00	7.96	94.839	1.073	0.0	0.0	0.0	1.29	280.0	145.3
6.008	50.00	8.02	94.600	1.136	0.0	0.0	0.0	2.38	673.2	153.9
6.009	49.99	9.72	94.520	1.136	0.0	0.0	0.0	0.23	66.4	153.9
1.014	44.34	12.09	94.520	3.018	0.0	0.0	0.0	1.50	538.1	362.4
1.015	43.91	12.30	94.500	3.018	0.0	0.0	0.0	0.99	70.1	362.4

Free Flowing Outfall Details for Surface Network 4

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.015	S4024	95.700	94.450	0.000	0	0

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<u>Simulation Criteria for Surface Network 4</u> 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 Coefficient 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 1 Number of Online Controls 1 Number of Time/Area Diagrams 0 Number of Offline Controls 0 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Profile Type</td> <td>Summer</td> </tr> <tr> <td>Return Period (years)</td> <td>2</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>19.400</td> <td>Storm Duration (mins)</td> <td>30</td> </tr> <tr> <td>Ratio R</td> <td>0.410</td> <td></td> <td></td> </tr> </table>			Rainfall Model	FSR	Profile Type	Summer	Return Period (years)	2	Cv (Summer)	0.750	Region	England and Wales	Cv (Winter)	0.840	M5-60 (mm)	19.400	Storm Duration (mins)	30	Ratio R	0.410		
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Online Controls for Surface Network 4

Hydro-Brake® Optimum Manhole: S4023 - Control Chamber, DS/PN: 1.015, Volume (m³): 12.1

Unit Reference	MD-SHE-0118-7100-1400-7100
Design Head (m)	1.400
Design Flow (l/s)	7.1
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	118
Invert Level (m)	94.500
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.400	7.1	Kick-Flo®	0.864	5.7
Flush-Flo™	0.410	7.1	Mean Flow over Head Range	-	6.2

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	4.2	1.200	6.6	3.000	10.2	7.000	15.2
0.200	6.5	1.400	7.1	3.500	10.9	7.500	15.7
0.300	7.0	1.600	7.6	4.000	11.6	8.000	16.2
0.400	7.1	1.800	8.0	4.500	12.3	8.500	16.7
0.500	7.0	2.000	8.4	5.000	12.9	9.000	17.1
0.600	6.9	2.200	8.8	5.500	13.5	9.500	17.6
0.800	6.2	2.400	9.1	6.000	14.1		
1.000	6.1	2.600	9.5	6.500	14.7		

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Storage Structures for Surface Network 4

Tank or Pond Manhole: S4023 - Control Chamber, DS/PN: 1.015

Invert Level (m) 94.500

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	1123.6	0.500	1473.6	1.000	1851.2	1.500	2254.9
0.100	1190.4	0.600	1547.0	1.100	1929.8	1.600	2338.8
0.200	1259.7	0.700	1621.5	1.200	2009.5	1.700	2423.7
0.300	1329.9	0.800	1697.0	1.300	2090.3	1.701	2423.7
0.400	1401.3	0.900	1773.6	1.400	2172.0		

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	20	100.019	-0.176	0.000	0.11		7.1	OK
1.001	S1003	20	99.351	-0.239	0.000	0.09		16.0	OK
1.002	S1004	20	98.855	-0.225	0.000	0.14		20.0	OK
2.000	S1005	20	98.840	-0.219	0.000	0.16		20.0	OK
1.003	S1006	20	98.438	-0.207	0.000	0.20		49.4	OK
3.000	S1007	20	96.616	-0.354	0.000	0.10		23.5	OK
3.001	S1008	20	96.381	-0.329	0.000	0.14		22.9	OK
1.004	S1009	21	96.307	-0.301	0.000	0.34		87.7	OK
4.000	S1010	20	98.060	-0.240	0.000	0.09		17.6	OK
4.001	S1011	20	97.037	-0.233	0.000	0.11		17.4	OK
1.005	S1012	22	96.246	-0.284	0.000	0.54		111.1	OK
5.000	S1013	20	96.704	-0.308	0.000	0.07		13.5	OK
1.006	S1014	22	96.066	-0.424	0.000	0.19		139.4	OK
1.007	S1015	35	95.417	-0.332	0.000	0.51		148.5	OK
1.008	S1016	38	95.291	-0.114	0.000	0.56		167.9	OK
1.009	S1017	40	95.256	-0.369	0.000	0.39		163.6	OK
1.010	S1019	51	95.146	-0.269	0.000	0.52		141.8	OK
1.011	S1020	52	95.115	-0.260	0.000	0.39		137.8	OK
1.012	S1021	52	95.076	-0.216	0.000	0.28		132.4	OK
1.013	S1022	52	95.058	-0.137	0.000	0.94		131.0	OK

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Summary Wizard of 15 minute 1 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
6.000		S8143	20 96.821	-0.279	0.000	0.15		30.5	OK
6.001		S8130	20 96.291	-0.319	0.000	0.18		43.8	OK
6.002		S8158	20 96.152	-0.277	0.000	0.30		44.6	OK
6.003		S8129	20 95.990	-0.330	0.000	0.16		52.4	OK
7.000		S4004	22 95.807	-0.262	0.000	0.20		19.5	OK
6.004		S4005	29 95.677	-0.292	0.000	0.26		83.7	OK
6.005		S8122	33 95.398	-0.196	0.000	0.60		85.4	OK
8.000		S8166	34 95.306	-0.247	0.000	0.14		11.7	OK
6.006		S8123	34 95.297	-0.213	0.000	0.54		102.7	OK
6.007		S8125	50 95.086	-0.278	0.000	0.44		109.8	OK
6.008		S4020	52 94.994	-0.206	0.000	0.31		106.3	OK
6.009	S4021 - Headwall	52	94.985	-0.135	0.000	0.88		102.7	OK
1.014		S4022	52 94.950	-0.245	0.000	0.73		197.8	OK
1.015	S4023 - Control Chamber	72	94.639	-0.161	0.000	0.10		5.4	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	21	100.017	-0.178	0.000	0.10		6.4	OK
1.001	S1003	23	99.348	-0.242	0.000	0.08		14.7	OK
1.002	S1004	23	98.851	-0.229	0.000	0.13		18.5	OK
2.000	S1005	21	98.835	-0.224	0.000	0.15		17.9	OK
1.003	S1006	23	98.433	-0.212	0.000	0.19		45.5	OK
3.000	S1007	21	96.611	-0.359	0.000	0.09		21.4	OK
3.001	S1008	23	96.372	-0.338	0.000	0.13		20.9	OK
1.004	S1009	25	96.292	-0.316	0.000	0.32		82.3	OK
4.000	S1010	21	98.056	-0.244	0.000	0.08		15.8	OK
4.001	S1011	21	97.034	-0.236	0.000	0.10		15.8	OK
1.005	S1012	24	96.233	-0.297	0.000	0.50		104.1	OK
5.000	S1013	21	96.699	-0.313	0.000	0.07		12.2	OK
1.006	S1014	25	96.061	-0.429	0.000	0.18		131.6	OK
1.007	S1015	36	95.405	-0.344	0.000	0.48		140.0	OK
1.008	S1016	39	95.287	-0.118	0.000	0.54		161.4	OK
1.009	S1017	39	95.256	-0.369	0.000	0.38		158.5	OK
1.010	S1019	50	95.151	-0.264	0.000	0.51		139.8	OK
1.011	S1020	51	95.121	-0.254	0.000	0.39		137.8	OK
1.012	S1021	51	95.082	-0.210	0.000	0.29		133.7	OK
1.013	S1022	51	95.063	-0.132	0.000	0.96		133.0	OK

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PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow		Pipe	Status
						Flow Cap.	(1/s)	Flow (1/s)	
6.000	S4021 - Headwall	S8143	21	96.815	-0.285	0.000	0.13	27.6	OK
6.001		S8130	22	96.283	-0.327	0.000	0.17	40.2	OK
6.002		S8158	22	96.143	-0.286	0.000	0.28	41.1	OK
6.003		S8129	23	95.984	-0.336	0.000	0.15	48.8	OK
7.000		S4004	24	95.800	-0.269	0.000	0.18	17.6	OK
6.004		S4005	32	95.670	-0.298	0.000	0.25	78.3	OK
6.005		S8122	34	95.386	-0.208	0.000	0.56	79.6	OK
8.000		S8166	36	95.299	-0.254	0.000	0.12	10.7	OK
6.006		S8123	36	95.288	-0.222	0.000	0.51	96.7	OK
6.007		S8125	52	95.079	-0.285	0.000	0.42	105.0	OK
6.008	S4020	51	95.001	-0.199	0.000	0.28	98.9	OK	
6.009	S4023 - Control Chamber	51	94.992	-0.128	0.000	0.83	96.8	OK	
1.014		S4022	51	94.959	-0.236	0.000	0.75	202.9	OK
1.015		70	94.676	-0.124	0.000	0.11	6.3	OK	

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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

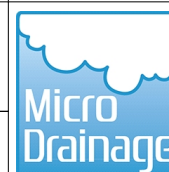
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	28	100.009	-0.186	0.000	0.07		4.6	OK
1.001	S1003	29	99.339	-0.251	0.000	0.06		11.0	OK
1.002	S1004	30	98.843	-0.237	0.000	0.10		14.0	OK
2.000	S1005	28	98.825	-0.234	0.000	0.11		13.1	OK
1.003	S1006	29	98.420	-0.225	0.000	0.14		33.9	OK
3.000	S1007	28	96.596	-0.374	0.000	0.06		15.3	OK
3.001	S1008	28	96.355	-0.355	0.000	0.10		15.5	OK
1.004	S1009	30	96.253	-0.355	0.000	0.24		63.7	OK
4.000	S1010	28	98.047	-0.253	0.000	0.06		11.5	OK
4.001	S1011	28	97.024	-0.246	0.000	0.07		11.3	OK
1.005	S1012	30	96.192	-0.338	0.000	0.39		80.0	OK
5.000	S1013	28	96.690	-0.322	0.000	0.05		8.7	OK
1.006	S1014	30	96.040	-0.450	0.000	0.14		102.2	OK
1.007	S1015	39	95.366	-0.383	0.000	0.38		111.7	OK
1.008	S1016	41	95.260	-0.145	0.000	0.44		131.1	OK
1.009	S1017	45	95.230	-0.395	0.000	0.31		130.4	OK
1.010	S1019	53	95.119	-0.296	0.000	0.44		120.6	OK
1.011	S1020	53	95.088	-0.287	0.000	0.35		122.0	OK
1.012	S1021	53	95.048	-0.244	0.000	0.26		119.0	OK
1.013	S1022	53	95.031	-0.164	0.000	0.86		119.8	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe	Status
								Flow (l/s)	
6.000	S4021 - Headwall	S8143	28	96.804	-0.296	0.000	0.10	19.9	OK
6.001		S8130	28	96.266	-0.344	0.000	0.12	29.5	OK
6.002		S8158	28	96.121	-0.309	0.000	0.21	31.2	OK
6.003		S8129	30	95.969	-0.351	0.000	0.11	37.5	OK
7.000		S4004	31	95.784	-0.285	0.000	0.13	12.7	OK
6.004		S4005	39	95.651	-0.318	0.000	0.19	60.2	OK
6.005		S8122	39	95.352	-0.242	0.000	0.43	60.7	OK
8.000		S8166	39	95.275	-0.279	0.000	0.09	7.8	OK
6.006		S8123	40	95.259	-0.251	0.000	0.40	75.7	OK
6.007	S4020	S8125	53	95.055	-0.309	0.000	0.34	84.0	OK
6.008		S4020	53	94.972	-0.228	0.000	0.23	81.3	OK
6.009		S4021 - Headwall	53	94.963	-0.157	0.000	0.68	79.0	OK
1.014	S4023 - Control Chamber	S4022	53	94.930	-0.265	0.000	0.68	183.0	OK
1.015		S4023 - Control Chamber	68	94.716	-0.084	0.000	0.12	6.6	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	38	100.001	-0.194	0.000	0.05		3.1	OK
1.001	S1003	38	99.330	-0.260	0.000	0.04		7.6	OK
1.002	S1004	38	98.831	-0.249	0.000	0.07		9.7	OK
2.000	S1005	38	98.811	-0.248	0.000	0.07		8.6	OK
1.003	S1006	38	98.407	-0.238	0.000	0.10		23.1	OK
3.000	S1007	38	96.580	-0.390	0.000	0.04		10.3	OK
3.001	S1008	38	96.334	-0.376	0.000	0.06		10.2	OK
1.004	S1009	38	96.207	-0.401	0.000	0.17		43.2	OK
4.000	S1010	38	98.038	-0.262	0.000	0.04		7.6	OK
4.001	S1011	38	97.013	-0.257	0.000	0.05		7.6	OK
1.005	S1012	38	96.144	-0.386	0.000	0.27		54.9	OK
5.000	S1013	38	96.680	-0.332	0.000	0.03		5.8	OK
1.006	S1014	38	96.016	-0.474	0.000	0.10		70.9	OK
1.007	S1015	44	95.313	-0.436	0.000	0.26		76.2	OK
1.008	S1016	50	95.213	-0.192	0.000	0.30		90.0	OK
1.009	S1017	50	95.181	-0.444	0.000	0.23		94.7	OK
1.010	S1019	55	95.058	-0.357	0.000	0.33		91.2	OK
1.011	S1020	55	95.024	-0.351	0.000	0.26		91.8	OK
1.012	S1021	55	94.978	-0.314	0.000	0.20		92.3	OK
1.013	S1022	55	94.964	-0.231	0.000	0.67		92.4	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
1.000	S1002	44	99.998	-0.197	0.000	0.04	2.5	OK	
1.001	S1003	44	99.326	-0.264	0.000	0.03	6.0	OK	
1.002	S1004	44	98.825	-0.255	0.000	0.05	7.6	OK	
2.000	S1005	44	98.805	-0.254	0.000	0.06	6.9	OK	
1.003	S1006	44	98.400	-0.245	0.000	0.08	18.3	OK	
3.000	S1007	44	96.574	-0.396	0.000	0.03	8.3	OK	
3.001	S1008	44	96.326	-0.384	0.000	0.05	8.2	OK	
1.004	S1009	44	96.184	-0.424	0.000	0.13	34.1	OK	
4.000	S1010	44	98.034	-0.266	0.000	0.03	6.1	OK	
4.001	S1011	44	97.008	-0.262	0.000	0.04	6.0	OK	
1.005	S1012	44	96.119	-0.411	0.000	0.22	44.4	OK	
5.000	S1013	44	96.677	-0.335	0.000	0.03	4.7	OK	
1.006	S1014	45	96.001	-0.489	0.000	0.08	57.1	OK	
1.007	S1015	48	95.284	-0.465	0.000	0.21	62.0	OK	
1.008	S1016	54	95.187	-0.218	0.000	0.25	73.8	OK	
1.009	S1017	57	95.156	-0.469	0.000	0.18	75.6	OK	
1.010	S1019	57	95.020	-0.395	0.000	0.27	75.0	OK	
1.011	S1020	57	94.983	-0.392	0.000	0.22	76.2	OK	
1.012	S1021	57	94.935	-0.357	0.000	0.16	76.0	OK	
1.013	S1022	57	94.924	-0.271	0.000	0.55	75.8	OK	

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Summary Wizard of 180 minute 1 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe	Status
								Flow (l/s)	
6.000	S4021 - Headwall	S8143	44	96.779	-0.321	0.000	0.05	10.6	OK
6.001		S8130	44	96.236	-0.374	0.000	0.07	16.0	OK
6.002		S8158	44	96.081	-0.349	0.000	0.11	16.4	OK
6.003		S8129	44	95.942	-0.378	0.000	0.06	19.9	OK
7.000		S4004	46	95.758	-0.311	0.000	0.07	6.8	OK
6.004		S4005	47	95.615	-0.354	0.000	0.10	32.0	OK
6.005		S8122	47	95.294	-0.300	0.000	0.23	33.3	OK
8.000		S8166	51	95.236	-0.318	0.000	0.05	4.2	OK
6.006		S8123	53	95.202	-0.308	0.000	0.22	41.8	OK
6.007		S8125	57	94.992	-0.372	0.000	0.19	46.7	OK
6.008	S4020	57	94.870	-0.330	0.000	0.14	47.5	OK	
6.009	S4023 - Control Chamber	57	94.864	-0.256	0.000	0.40	47.0	OK	
1.014		S4022	62	94.834	-0.361	0.000	0.44	119.9	OK
1.015		65	94.773	-0.027	0.000	0.12	6.9	OK	

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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	48	99.996	-0.199	0.000	0.03		2.0	OK
1.001	S1003	48	99.323	-0.267	0.000	0.03		5.0	OK
1.002	S1004	48	98.820	-0.260	0.000	0.04		6.4	OK
2.000	S1005	48	98.800	-0.259	0.000	0.05		5.6	OK
1.003	S1006	48	98.394	-0.251	0.000	0.06		15.2	OK
3.000	S1007	48	96.570	-0.400	0.000	0.03		6.8	OK
3.001	S1008	48	96.319	-0.391	0.000	0.04		6.7	OK
1.004	S1009	48	96.165	-0.443	0.000	0.11		28.6	OK
4.000	S1010	48	98.032	-0.268	0.000	0.03		5.0	OK
4.001	S1011	48	97.005	-0.265	0.000	0.03		5.0	OK
1.005	S1012	48	96.101	-0.429	0.000	0.18		36.6	OK
5.000	S1013	48	96.674	-0.338	0.000	0.02		3.8	OK
1.006	S1014	48	95.989	-0.501	0.000	0.06		47.2	OK
1.007	S1015	50	95.265	-0.484	0.000	0.17		51.0	OK
1.008	S1016	57	95.169	-0.236	0.000	0.20		60.7	OK
1.009	S1017	58	95.134	-0.491	0.000	0.15		63.9	OK
1.010	S1019	58	94.993	-0.422	0.000	0.23		63.0	OK
1.011	S1020	58	94.956	-0.419	0.000	0.18		64.6	OK
1.012	S1021	58	94.904	-0.388	0.000	0.14		64.7	OK
1.013	S1022	58	94.895	-0.300	0.000	0.47		64.6	OK

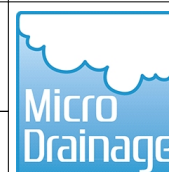
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Summary Wizard of 240 minute 1 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow (l/s)				
6.000	S4021 - Headwall	S8143	48	96.774	-0.326	0.000	0.04	8.7	OK	
6.001		S8130	48	96.228	-0.382	0.000	0.06	13.2	OK	
6.002		S8158	48	96.072	-0.357	0.000	0.09	13.7	OK	
6.003		S8129	48	95.935	-0.385	0.000	0.05	16.6	OK	
7.000		S4004	49	95.751	-0.318	0.000	0.06	5.6	OK	
6.004		S4005	50	95.607	-0.362	0.000	0.08	26.8	OK	
6.005		S8122	50	95.280	-0.314	0.000	0.19	27.5	OK	
8.000		S8166	55	95.228	-0.325	0.000	0.04	3.5	OK	
6.006		S8123	55	95.189	-0.321	0.000	0.18	34.3	OK	
6.007		S8125	58	94.978	-0.387	0.000	0.15	38.3	OK	
6.008	S4020	62	94.841	-0.359	0.000	0.11	39.9	OK		
6.009	S4023 - Control Chamber	63	94.837	-0.283	0.000	0.34	39.8	OK		
1.014	S4022	65	94.807	-0.388	0.000	0.38	102.5	OK		
1.015	S4023 - Control Chamber	63	94.785	-0.015	0.000	0.12	6.9	OK		

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Summary Wizard of 360 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	55	99.993	-0.202	0.000	0.02		1.5	OK
1.001	S1003	55	99.320	-0.270	0.000	0.02		3.7	OK
1.002	S1004	55	98.815	-0.265	0.000	0.03		4.8	OK
2.000	S1005	55	98.795	-0.264	0.000	0.03		4.2	OK
1.003	S1006	55	98.387	-0.258	0.000	0.05		11.4	OK
3.000	S1007	55	96.565	-0.405	0.000	0.02		5.1	OK
3.001	S1008	55	96.312	-0.398	0.000	0.03		5.1	OK
1.004	S1009	55	96.142	-0.466	0.000	0.08		21.6	OK
4.000	S1010	55	98.027	-0.273	0.000	0.02		3.7	OK
4.001	S1011	55	97.001	-0.269	0.000	0.02		3.7	OK
1.005	S1012	55	96.076	-0.454	0.000	0.13		27.8	OK
5.000	S1013	55	96.665	-0.347	0.000	0.02		2.9	OK
1.006	S1014	55	95.975	-0.515	0.000	0.05		35.8	OK
1.007	S1015	59	95.237	-0.512	0.000	0.13		38.9	OK
1.008	S1016	60	95.146	-0.259	0.000	0.16		46.6	OK
1.009	S1017	60	95.108	-0.517	0.000	0.12		48.2	OK
1.010	S1019	61	94.957	-0.458	0.000	0.18		48.6	OK
1.011	S1020	61	94.918	-0.457	0.000	0.14		50.4	OK
1.012	S1021	61	94.864	-0.428	0.000	0.11		50.3	OK
1.013	S1022	61	94.856	-0.339	0.000	0.36		50.0	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	59	99.989	-0.206	0.000	0.02		1.2	OK
1.001	S1003	59	99.315	-0.275	0.000	0.02		3.0	OK
1.002	S1004	59	98.813	-0.267	0.000	0.03		3.9	OK
2.000	S1005	59	98.792	-0.267	0.000	0.03		3.4	OK
1.003	S1006	59	98.383	-0.262	0.000	0.04		9.3	OK
3.000	S1007	59	96.557	-0.413	0.000	0.02		4.1	OK
3.001	S1008	59	96.308	-0.402	0.000	0.03		4.1	OK
1.004	S1009	59	96.130	-0.478	0.000	0.07		17.5	OK
4.000	S1010	59	98.021	-0.279	0.000	0.02		3.0	OK
4.001	S1011	59	96.998	-0.272	0.000	0.02		3.0	OK
1.005	S1012	59	96.061	-0.469	0.000	0.11		22.5	OK
5.000	S1013	59	96.659	-0.353	0.000	0.01		2.3	OK
1.006	S1014	59	95.966	-0.524	0.000	0.04		29.1	OK
1.007	S1015	61	95.221	-0.528	0.000	0.11		31.6	OK
1.008	S1016	62	95.131	-0.274	0.000	0.13		37.9	OK
1.009	S1017	62	95.092	-0.533	0.000	0.10		39.7	OK
1.010	S1019	62	94.935	-0.480	0.000	0.14		39.8	OK
1.011	S1020	62	94.896	-0.479	0.000	0.12		40.9	OK
1.012	S1021	67	94.839	-0.453	0.000	0.09		41.0	OK
1.013	S1022	68	94.830	-0.365	0.000	0.30		41.2	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000		S8143	59	96.765	-0.335	0.000	0.03	5.3
6.001		S8130	59	96.213	-0.397	0.000	0.03	8.0
6.002		S8158	59	96.049	-0.381	0.000	0.06	8.4
6.003		S8129	59	95.921	-0.399	0.000	0.03	10.2
7.000		S4004	59	95.738	-0.330	0.000	0.03	3.4
6.004		S4005	59	95.584	-0.384	0.000	0.05	16.4
6.005		S8122	61	95.248	-0.346	0.000	0.12	16.9
8.000		S8166	61	95.218	-0.336	0.000	0.02	2.1
6.006		S8123	61	95.159	-0.351	0.000	0.11	21.3
6.007		S8125	62	94.948	-0.417	0.000	0.10	23.8
6.008		S4020	70	94.804	-0.396	0.000	0.07	25.2
6.009	S4021 - Headwall	70	94.804	-0.316	0.000	0.21		25.1
1.014		S4022	70	94.803	-0.392	0.000	0.24	65.5
1.015	S4023 - Control Chamber	60	94.803	0.003	0.000	0.12		7.0

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	63	99.986	-0.209	0.000	0.02		1.0	OK
1.001	S1003	63	99.311	-0.279	0.000	0.01		2.6	OK
1.002	S1004	63	98.811	-0.269	0.000	0.02		3.3	OK
2.000	S1005	63	98.790	-0.269	0.000	0.02		2.9	OK
1.003	S1006	63	98.380	-0.265	0.000	0.03		7.9	OK
3.000	S1007	63	96.551	-0.419	0.000	0.01		3.5	OK
3.001	S1008	63	96.305	-0.405	0.000	0.02		3.5	OK
1.004	S1009	63	96.119	-0.489	0.000	0.06		14.8	OK
4.000	S1010	63	98.018	-0.282	0.000	0.01		2.6	OK
4.001	S1011	63	96.993	-0.277	0.000	0.02		2.6	OK
1.005	S1012	63	96.052	-0.478	0.000	0.09		19.1	OK
5.000	S1013	63	96.656	-0.356	0.000	0.01		2.0	OK
1.006	S1014	63	95.961	-0.529	0.000	0.03		24.6	OK
1.007	S1015	64	95.211	-0.538	0.000	0.09		26.8	OK
1.008	S1016	64	95.120	-0.285	0.000	0.11		32.2	OK
1.009	S1017	64	95.080	-0.545	0.000	0.08		33.7	OK
1.010	S1019	64	94.918	-0.497	0.000	0.12		34.0	OK
1.011	S1020	64	94.878	-0.497	0.000	0.10		35.0	OK
1.012	S1021	69	94.820	-0.472	0.000	0.07		34.8	OK
1.013	S1022	69	94.812	-0.383	0.000	0.25		34.8	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000		S8143	63	96.763	-0.337	0.000	0.02	4.5
6.001		S8130	63	96.210	-0.400	0.000	0.03	6.8
6.002		S8158	63	96.043	-0.387	0.000	0.05	7.1
6.003		S8129	63	95.918	-0.402	0.000	0.03	8.6
7.000		S4004	63	95.735	-0.333	0.000	0.03	2.9
6.004		S4005	63	95.579	-0.390	0.000	0.04	13.9
6.005		S8122	64	95.241	-0.353	0.000	0.10	14.4
8.000		S8166	64	95.215	-0.339	0.000	0.02	1.8
6.006		S8123	64	95.152	-0.358	0.000	0.09	18.0
6.007		S8125	64	94.939	-0.426	0.000	0.08	20.2
6.008		S4020	69	94.805	-0.395	0.000	0.06	21.4
6.009	S4021 - Headwall	69	94.804		-0.316	0.000	0.18	21.3
1.014		S4022	69	94.804	-0.391	0.000	0.21	55.5
1.015	S4023 - Control Chamber	59	94.803		0.003	0.000	0.12	7.0

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 720 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

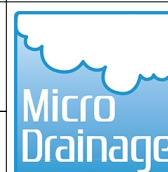
Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	65	99.984	-0.211	0.000	0.01		0.9	OK
1.001	S1003	65	99.308	-0.282	0.000	0.01		2.2	OK
1.002	S1004	65	98.808	-0.272	0.000	0.02		2.9	OK
2.000	S1005	65	98.788	-0.271	0.000	0.02		2.5	OK
1.003	S1006	65	98.378	-0.267	0.000	0.03		6.9	OK
3.000	S1007	65	96.547	-0.423	0.000	0.01		3.0	OK
3.001	S1008	65	96.300	-0.410	0.000	0.02		3.0	OK
1.004	S1009	65	96.110	-0.498	0.000	0.05		13.0	OK
4.000	S1010	65	98.016	-0.284	0.000	0.01		2.2	OK
4.001	S1011	65	96.991	-0.279	0.000	0.01		2.2	OK
1.005	S1012	65	96.043	-0.487	0.000	0.08		16.7	OK
5.000	S1013	65	96.653	-0.359	0.000	0.01		1.7	OK
1.006	S1014	65	95.957	-0.533	0.000	0.03		21.5	OK
1.007	S1015	66	95.201	-0.548	0.000	0.08		23.4	OK
1.008	S1016	66	95.111	-0.294	0.000	0.09		28.1	OK
1.009	S1017	66	95.069	-0.556	0.000	0.07		29.5	OK
1.010	S1019	66	94.905	-0.510	0.000	0.11		29.7	OK
1.011	S1020	66	94.864	-0.511	0.000	0.09		30.5	OK
1.012	S1021	71	94.807	-0.485	0.000	0.07		30.3	OK
1.013	S1022	70	94.808	-0.387	0.000	0.22		30.0	OK

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PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m ³)				
6.000		S8143	65	96.758	-0.342	0.000	0.02		3.9
6.001		S8130	65	96.207	-0.403	0.000	0.02		5.9
6.002		S8158	65	96.039	-0.391	0.000	0.04		6.2
6.003		S8129	65	95.916	-0.404	0.000	0.02		7.5
7.000		S4004	65	95.733	-0.335	0.000	0.03		2.5
6.004		S4005	65	95.575	-0.393	0.000	0.04		12.1
6.005		S8122	66	95.235	-0.359	0.000	0.09		12.6
8.000		S8166	66	95.210	-0.343	0.000	0.02		1.6
6.006		S8123	66	95.146	-0.364	0.000	0.08		15.8
6.007		S8125	66	94.931	-0.434	0.000	0.07		17.7
6.008		S4020	68	94.806	-0.394	0.000	0.05		18.7
6.009	S4021 - Headwall	68	94.805	-0.315	0.000	0.16		18.6	
1.014		S4022	68	94.805	-0.390	0.000	0.18		48.3
1.015	S4023 - Control Chamber	58	94.804	0.004	0.000	0.12		7.0	

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	68	99.982	-0.213	0.000	0.01		0.7	OK
1.001	S1003	68	99.305	-0.285	0.000	0.01		1.8	OK
1.002	S1004	68	98.803	-0.277	0.000	0.02		2.3	OK
2.000	S1005	68	98.783	-0.276	0.000	0.02		2.0	OK
1.003	S1006	68	98.376	-0.269	0.000	0.02		5.6	OK
3.000	S1007	68	96.542	-0.428	0.000	0.01		2.5	OK
3.001	S1008	68	96.293	-0.417	0.000	0.02		2.5	OK
1.004	S1009	68	96.098	-0.510	0.000	0.04		10.5	OK
4.000	S1010	68	98.013	-0.287	0.000	0.01		1.8	OK
4.001	S1011	68	96.987	-0.283	0.000	0.01		1.8	OK
1.005	S1012	68	96.030	-0.500	0.000	0.07		13.5	OK
5.000	S1013	68	96.650	-0.362	0.000	0.01		1.4	OK
1.006	S1014	68	95.952	-0.538	0.000	0.02		17.4	OK
1.007	S1015	68	95.185	-0.564	0.000	0.06		18.9	OK
1.008	S1016	68	95.101	-0.304	0.000	0.08		22.7	OK
1.009	S1017	68	95.055	-0.570	0.000	0.06		23.9	OK
1.010	S1019	68	94.889	-0.526	0.000	0.09		24.1	OK
1.011	S1020	68	94.849	-0.526	0.000	0.07		24.9	OK
1.012	S1021	70	94.807	-0.485	0.000	0.05		24.7	OK
1.013	S1022	71	94.807	-0.388	0.000	0.18		24.5	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000		S8143	68	96.752	-0.348	0.000	0.02	3.2
6.001		S8130	68	96.203	-0.407	0.000	0.02	4.8
6.002		S8158	68	96.033	-0.396	0.000	0.03	5.0
6.003		S8129	68	95.909	-0.411	0.000	0.02	6.1
7.000		S4004	68	95.730	-0.339	0.000	0.02	2.0
6.004		S4005	68	95.570	-0.398	0.000	0.03	9.8
6.005		S8122	68	95.224	-0.370	0.000	0.07	10.2
8.000		S8166	68	95.204	-0.349	0.000	0.01	1.3
6.006		S8123	68	95.135	-0.375	0.000	0.07	12.7
6.007		S8125	68	94.920	-0.444	0.000	0.06	14.3
6.008		S4020	67	94.806	-0.394	0.000	0.04	15.0
6.009	S4021 - Headwall	67	94.805	-0.315	0.000	0.13		15.0
1.014		S4022	67	94.805	-0.390	0.000	0.14	39.1
1.015	S4023 - Control Chamber	57	94.805	0.005	0.000	0.12		7.0

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 1440 minute 1 year Summer I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	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)	Pipe Flow (l/s)	Status
1.000	S1002	71	99.979	-0.216	0.000	0.01		0.5	OK
1.001	S1003	71	99.301	-0.289	0.000	0.01		1.3	OK
1.002	S1004	71	98.797	-0.283	0.000	0.01		1.7	OK
2.000	S1005	71	98.777	-0.282	0.000	0.01		1.5	OK
1.003	S1006	71	98.369	-0.276	0.000	0.02		4.1	OK
3.000	S1007	71	96.536	-0.434	0.000	0.01		1.8	OK
3.001	S1008	71	96.284	-0.426	0.000	0.01		1.8	OK
1.004	S1009	71	96.085	-0.523	0.000	0.03		7.8	OK
4.000	S1010	71	98.010	-0.290	0.000	0.01		1.3	OK
4.001	S1011	71	96.982	-0.288	0.000	0.01		1.3	OK
1.005	S1012	71	96.014	-0.516	0.000	0.05		10.0	OK
5.000	S1013	71	96.647	-0.365	0.000	0.01		1.0	OK
1.006	S1014	71	95.940	-0.550	0.000	0.02		12.9	OK
1.007	S1015	71	95.169	-0.580	0.000	0.05		14.0	OK
1.008	S1016	71	95.089	-0.316	0.000	0.06		16.9	OK
1.009	S1017	71	95.039	-0.586	0.000	0.04		17.7	OK
1.010	S1019	71	94.870	-0.545	0.000	0.07		17.9	OK
1.011	S1020	72	94.830	-0.545	0.000	0.05		18.5	OK
1.012	S1021	72	94.801	-0.491	0.000	0.04		18.4	OK
1.013	S1022	72	94.800	-0.395	0.000	0.13		18.3	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	7	100.048	-0.147	0.000	0.26		17.4	OK
1.001	S1003	7	99.395	-0.195	0.000	0.27		46.2	OK
1.002	S1004	7	98.915	-0.165	0.000	0.41		59.4	OK
2.000	S1005	7	98.891	-0.168	0.000	0.40		49.0	OK
1.003	S1006	7	98.510	-0.135	0.000	0.58		139.7	OK
3.000	S1007	8	96.694	-0.276	0.000	0.24		57.4	OK
3.001	S1008	8	96.634	-0.076	0.000	0.35		55.8	OK
1.004	S1009	9	96.608	0.000	0.000	0.88		228.0	OK
4.000	S1010	7	98.095	-0.205	0.000	0.22		43.1	OK
4.001	S1011	7	97.078	-0.192	0.000	0.28		42.8	OK
1.005	S1012	9	96.530	0.000	0.000	1.39		286.0	OK
5.000	S1013	8	96.744	-0.268	0.000	0.18		32.7	OK
1.006	S1014	9	96.197	-0.293	0.000	0.49		364.1	OK
1.007	S1015	16	95.789	0.040	0.000	1.31		381.3	SURCHARGED
1.008	S1016	18	95.754	0.349	0.000	1.38		413.2	SURCHARGED
1.009	S1017	20	95.696	0.071	0.000	0.94		390.5	SURCHARGED
1.010	S1019	24	95.606	0.191	0.000	1.27		348.1	SURCHARGED
1.011	S1020	25	95.560	0.185	0.000	0.96		336.4	SURCHARGED
1.012	S1021	27	95.484	0.192	0.000	0.72		334.8	SURCHARGED
1.013	S1022	27	95.435	0.240	0.000	2.38		330.4	SURCHARGED

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Summary Wizard of 15 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000		S8143	7 96.882	-0.218	0.000	0.36		74.9
6.001		S8130	8 96.386	-0.224	0.000	0.49		118.1
6.002		S8158	8 96.300	-0.129	0.000	0.82		120.1
6.003		S8129	8 96.077	-0.243	0.000	0.43		143.8
7.000		S4004	9 95.982	-0.086	0.000	0.47		46.7
6.004		S4005	9 95.951	-0.017	0.000	0.64		203.4
6.005		S8122	11 95.801	0.207	0.000	1.43		202.9
8.000		S8166	22 95.645	0.091	0.000	0.31		26.9
6.006		S8123	23 95.633	0.123	0.000	1.28		245.4
6.007		S8125	28 95.491	0.126	0.000	1.01		252.1
6.008		S4020	28 95.385	0.185	0.000	0.71		246.1
6.009	S4021 - Headwall	28	95.362	0.242	0.000	2.08		242.8
1.014		S4022	27 95.321	0.126	0.000	1.97		532.8
1.015	S4023 - Control Chamber	54	94.820	0.020	0.000	0.12		7.0

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	SURCHARGED
8.000	S8166	SURCHARGED
6.006	S8123	SURCHARGED
6.007	S8125	SURCHARGED
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

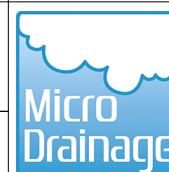
Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	9	100.044	-0.151	0.000	0.23		15.8	OK
1.001	S1003	9	99.388	-0.202	0.000	0.23		39.8	OK
1.002	S1004	9	98.905	-0.175	0.000	0.36		51.0	OK
2.000	S1005	9	98.883	-0.176	0.000	0.36		44.0	OK
1.003	S1006	9	98.497	-0.148	0.000	0.50		121.8	OK
3.000	S1007	9	96.686	-0.284	0.000	0.22		51.9	OK
3.001	S1008	9	96.631	-0.079	0.000	0.32		50.9	OK
1.004	S1009	8	96.608	0.000	0.000	0.77		200.3	OK
4.000	S1010	9	98.089	-0.211	0.000	0.19		38.7	OK
4.001	S1011	9	97.071	-0.199	0.000	0.25		38.7	OK
1.005	S1012	8	96.530	0.000	0.000	1.23		254.2	OK
5.000	S1013	9	96.737	-0.275	0.000	0.16		29.7	OK
1.006	S1014	10	96.170	-0.320	0.000	0.44		322.3	OK
1.007	S1015	13	95.816	0.067	0.000	1.15		336.6	SURCHARGED
1.008	S1016	15	95.779	0.374	0.000	1.22		367.4	SURCHARGED
1.009	S1017	18	95.709	0.084	0.000	0.88		365.1	SURCHARGED
1.010	S1019	25	95.604	0.189	0.000	1.22		335.5	SURCHARGED
1.011	S1020	26	95.556	0.181	0.000	0.96		335.9	SURCHARGED
1.012	S1021	28	95.477	0.185	0.000	0.72		335.8	SURCHARGED
1.013	S1022	28	95.429	0.234	0.000	2.39		331.0	SURCHARGED

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Summary Wizard of 30 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow (1/s)			
6.000		S8143	9	96.872	-0.228	0.000	0.33		67.8
6.001		S8130	9	96.369	-0.241	0.000	0.44		104.3
6.002		S8158	9	96.270	-0.159	0.000	0.73		106.4
6.003		S8129	10	96.065	-0.255	0.000	0.38		127.7
7.000		S4004	10	95.905	-0.163	0.000	0.43		43.0
6.004		S4005	10	95.873	-0.096	0.000	0.60		189.3
6.005		S8122	15	95.760	0.166	0.000	1.31		186.8
8.000		S8166	19	95.663	0.109	0.000	0.29		24.8
6.006		S8123	20	95.654	0.144	0.000	1.19		227.9
6.007		S8125	26	95.502	0.137	0.000	0.95		236.8
6.008		S4020	27	95.388	0.188	0.000	0.70		243.5
6.009	S4021 - Headwall	27	95.363	0.243	0.000	2.05			238.9
1.014		S4022	28	95.319	0.124	0.000	1.98		535.2
1.015	S4023 - Control Chamber	46	94.901	0.101	0.000	0.12			7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	SURCHARGED
8.000	S8166	SURCHARGED
6.006	S8123	SURCHARGED
6.007	S8125	SURCHARGED
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	12	100.032	-0.163	0.000	0.17		11.2	OK
1.001	S1003	12	99.372	-0.218	0.000	0.16		28.6	OK
1.002	S1004	12	98.884	-0.196	0.000	0.25		36.3	OK
2.000	S1005	12	98.863	-0.196	0.000	0.26		31.6	OK
1.003	S1006	12	98.471	-0.174	0.000	0.36		86.0	OK
3.000	S1007	12	96.641	-0.329	0.000	0.16		37.2	OK
3.001	S1008	12	96.476	-0.234	0.000	0.23		36.5	OK
1.004	S1009	12	96.453	-0.155	0.000	0.60		156.0	OK
4.000	S1010	12	98.075	-0.225	0.000	0.14		27.8	OK
4.001	S1011	12	97.056	-0.214	0.000	0.18		27.4	OK
1.005	S1012	12	96.398	-0.132	0.000	0.96		198.2	OK
5.000	S1013	12	96.722	-0.290	0.000	0.11		21.0	OK
1.006	S1014	12	96.134	-0.356	0.000	0.34		253.8	OK
1.007	S1015	23	95.676	-0.073	0.000	0.90		262.2	OK
1.008	S1016	27	95.625	0.220	0.000	0.99		298.6	SURCHARGED
1.009	S1017	28	95.568	-0.057	0.000	0.73		304.5	OK
1.010	S1019	29	95.485	0.070	0.000	1.06		292.6	SURCHARGED
1.011	S1020	29	95.442	0.067	0.000	0.84		293.3	SURCHARGED
1.012	S1021	29	95.381	0.089	0.000	0.64		296.5	SURCHARGED
1.013	S1022	29	95.338	0.143	0.000	2.14		296.7	SURCHARGED

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Summary Wizard of 60 minute 30 year Summer I+0% for Surface Network 4									
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	
6.000		S8143	12 96.849	-0.251	0.000	0.23		48.2	
6.001		S8130	12 96.334	-0.276	0.000	0.31		74.1	
6.002		S8158	12 96.217	-0.212	0.000	0.53		77.3	
6.003		S8129	12 96.033	-0.287	0.000	0.28		93.6	
7.000		S4004	14 95.839	-0.230	0.000	0.31		30.7	
6.004		S4005	18 95.739	-0.230	0.000	0.47		149.7	
6.005		S8122	28 95.594	0.000	0.000	1.04		147.9	
8.000		S8166	29 95.495	-0.058	0.000	0.22		18.7	
6.006		S8123	29 95.486	-0.024	0.000	0.93		176.8	
6.007		S8125	29 95.368	0.004	0.000	0.76		190.6	
6.008		S4020	29 95.304	0.104	0.000	0.57		197.8	
6.009	S4021 - Headwall	29	95.284	0.164	0.000	1.67		195.0	
1.014	S4022	32	95.249	0.054	0.000	1.72		466.0	
1.015	S4023 - Control Chamber	44	94.979	0.179	0.000	0.12		7.1	
PN	US/MH Name	Status							
6.000		S8143 OK							
6.001		S8130 OK							
6.002		S8158 OK							
6.003		S8129 OK							
7.000		S4004 OK							
6.004		S4005 OK							
6.005		S8122 OK							
8.000		S8166 OK							
6.006		S8123 OK							
6.007		S8125 SURCHARGED							
6.008		S4020 SURCHARGED							
6.009	S4021 - Headwall	SURCHARGED							
1.014	S4022	SURCHARGED							
1.015	S4023 - Control Chamber	SURCHARGED							
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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	19	100.019	-0.176	0.000	0.11		7.3	OK
1.001	S1003	18	99.354	-0.236	0.000	0.10		18.0	OK
1.002	S1004	18	98.860	-0.220	0.000	0.16		22.9	OK
2.000	S1005	19	98.841	-0.218	0.000	0.17		20.3	OK
1.003	S1006	18	98.442	-0.203	0.000	0.23		55.0	OK
3.000	S1007	19	96.616	-0.354	0.000	0.10		24.3	OK
3.001	S1008	18	96.396	-0.314	0.000	0.15		23.9	OK
1.004	S1009	18	96.340	-0.268	0.000	0.39		102.3	OK
4.000	S1010	19	98.060	-0.240	0.000	0.09		17.9	OK
4.001	S1011	19	97.038	-0.232	0.000	0.12		17.8	OK
1.005	S1012	18	96.282	-0.248	0.000	0.64		131.0	OK
5.000	S1013	19	96.704	-0.308	0.000	0.07		13.7	OK
1.006	S1014	18	96.086	-0.404	0.000	0.23		169.1	OK
1.007	S1015	31	95.508	-0.241	0.000	0.62		180.6	OK
1.008	S1016	31	95.459	0.054	0.000	0.70		210.1	SURCHARGED
1.009	S1017	31	95.421	-0.204	0.000	0.51		213.9	OK
1.010	S1019	31	95.365	-0.050	0.000	0.76		209.0	OK
1.011	S1020	31	95.328	-0.047	0.000	0.61		211.9	OK
1.012	S1021	31	95.275	-0.017	0.000	0.45		209.8	OK
1.013	S1022	35	95.244	0.049	0.000	1.53		211.9	SURCHARGED

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Summary Wizard of 120 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143 19	96.822	-0.278	0.000	0.15		31.3
6.001		S8130 18	96.296	-0.314	0.000	0.20		47.6
6.002		S8158 18	96.160	-0.269	0.000	0.34		49.4
6.003		S8129 18	95.999	-0.321	0.000	0.18		59.9
7.000		S4004 21	95.808	-0.261	0.000	0.20		20.1
6.004		S4005 26	95.689	-0.279	0.000	0.31		96.5
6.005		S8122 31	95.425	-0.169	0.000	0.70		98.9
8.000		S8166 31	95.339	-0.215	0.000	0.14		12.4
6.006		S8123 31	95.334	-0.176	0.000	0.64		123.1
6.007		S8125 31	95.277	-0.087	0.000	0.53		132.3
6.008		S4020 35	95.235	0.035	0.000	0.37		128.4
6.009	S4021 - Headwall	36	95.221	0.101	0.000	1.10		127.9
1.014	S4022	37	95.195	0.000	0.000	1.21		327.3
1.015	S4023 - Control Chamber	41	95.051	0.251	0.000	0.12		7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	25	100.014	-0.181	0.000	0.09		5.7	OK
1.001	S1003	24	99.347	-0.243	0.000	0.08		14.1	OK
1.002	S1004	24	98.851	-0.229	0.000	0.13		17.9	OK
2.000	S1005	25	98.831	-0.228	0.000	0.13		15.9	OK
1.003	S1006	24	98.430	-0.215	0.000	0.18		43.0	OK
3.000	S1007	25	96.605	-0.365	0.000	0.08		19.1	OK
3.001	S1008	25	96.369	-0.341	0.000	0.12		18.9	OK
1.004	S1009	24	96.293	-0.315	0.000	0.31		79.9	OK
4.000	S1010	25	98.052	-0.248	0.000	0.07		14.0	OK
4.001	S1011	25	97.031	-0.239	0.000	0.09		13.9	OK
1.005	S1012	25	96.233	-0.297	0.000	0.50		102.8	OK
5.000	S1013	25	96.696	-0.316	0.000	0.06		10.8	OK
1.006	S1014	24	96.062	-0.428	0.000	0.18		131.9	OK
1.007	S1015	34	95.427	-0.322	0.000	0.49		142.4	OK
1.008	S1016	33	95.375	-0.030	0.000	0.56		167.2	OK
1.009	S1017	33	95.344	-0.281	0.000	0.41		172.0	OK
1.010	S1019	33	95.283	-0.132	0.000	0.59		161.6	OK
1.011	S1020	34	95.259	-0.116	0.000	0.48		166.5	OK
1.012	S1021	38	95.226	-0.066	0.000	0.36		167.3	OK
1.013	S1022	39	95.202	0.007	0.000	1.21		167.6	SURCHARGED

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Summary Wizard of 180 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143 25	96.811	-0.289	0.000	0.12		24.6
6.001		S8130 24	96.279	-0.331	0.000	0.16		37.3
6.002		S8158 24	96.137	-0.292	0.000	0.26		38.5
6.003		S8129 24	95.983	-0.337	0.000	0.14		46.5
7.000		S4004 28	95.793	-0.275	0.000	0.16		15.8
6.004		S4005 34	95.668	-0.300	0.000	0.24		74.9
6.005		S8122 36	95.384	-0.210	0.000	0.54		77.2
8.000		S8166 35	95.300	-0.254	0.000	0.11		9.7
6.006		S8123 35	95.289	-0.221	0.000	0.51		96.9
6.007		S8125 46	95.150	-0.215	0.000	0.43		107.0
6.008		S4020 48	95.111	-0.089	0.000	0.31		108.9
6.009	S4021 - Headwall	48	95.099	-0.021	0.000	0.92		107.3
1.014	S4022	48	95.089	-0.106	0.000	0.98		265.7
1.015	S4023 - Control Chamber	39	95.088	0.288	0.000	0.12		7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 240 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

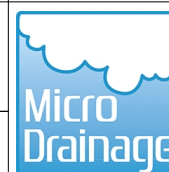
Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	29	100.008	-0.187	0.000	0.07		4.6	OK
1.001	S1003	28	99.340	-0.250	0.000	0.07		11.4	OK
1.002	S1004	28	98.844	-0.236	0.000	0.10		14.5	OK
2.000	S1005	29	98.824	-0.235	0.000	0.10		12.8	OK
1.003	S1006	28	98.420	-0.225	0.000	0.14		34.8	OK
3.000	S1007	29	96.594	-0.376	0.000	0.06		15.4	OK
3.001	S1008	29	96.353	-0.357	0.000	0.10		15.3	OK
1.004	S1009	28	96.258	-0.350	0.000	0.25		65.3	OK
4.000	S1010	29	98.046	-0.254	0.000	0.06		11.3	OK
4.001	S1011	29	97.023	-0.247	0.000	0.07		11.3	OK
1.005	S1012	28	96.197	-0.333	0.000	0.41		84.0	OK
5.000	S1013	29	96.689	-0.323	0.000	0.05		8.7	OK
1.006	S1014	28	96.043	-0.447	0.000	0.15		108.3	OK
1.007	S1015	38	95.373	-0.376	0.000	0.40		117.4	OK
1.008	S1016	35	95.300	-0.105	0.000	0.46		139.1	OK
1.009	S1017	35	95.273	-0.352	0.000	0.34		143.1	OK
1.010	S1019	40	95.189	-0.226	0.000	0.51		140.0	OK
1.011	S1020	44	95.163	-0.212	0.000	0.41		143.1	OK
1.012	S1021	48	95.131	-0.161	0.000	0.30		139.3	OK
1.013	S1022	48	95.115	-0.080	0.000	1.00		138.7	OK

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PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000	S8143	29	96.802	-0.298	0.000	0.10		19.8
6.001	S8130	29	96.266	-0.344	0.000	0.13		30.1
6.002	S8158	29	96.120	-0.309	0.000	0.21		31.4
6.003	S8129	28	95.971	-0.349	0.000	0.11		38.1
7.000	S4004	33	95.782	-0.286	0.000	0.13		12.7
6.004	S4005	38	95.653	-0.316	0.000	0.19		61.3
6.005	S8122	38	95.356	-0.238	0.000	0.44		63.1
8.000	S8166	38	95.277	-0.276	0.000	0.09		7.9
6.006	S8123	38	95.262	-0.248	0.000	0.41		79.0
6.007	S8125	48	95.116	-0.248	0.000	0.35		87.0
6.008	S4020	47	95.114	-0.086	0.000	0.26		89.1
6.009	S4021 - Headwall	47	95.113	-0.007	0.000	0.76		89.0
1.014	S4022	47	95.114	-0.081	0.000	0.83		224.8
1.015	S4023 - Control Chamber	37	95.113	0.313	0.000	0.12		7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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 / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	37	100.002	-0.193	0.000	0.05	3.4	OK
1.001	S1003	37	99.332	-0.258	0.000	0.05	8.3	OK
1.002	S1004	37	98.834	-0.246	0.000	0.07	10.6	OK
2.000	S1005	37	98.814	-0.245	0.000	0.08	9.4	OK
1.003	S1006	37	98.410	-0.235	0.000	0.11	25.4	OK
3.000	S1007	37	96.583	-0.387	0.000	0.05	11.2	OK
3.001	S1008	37	96.338	-0.372	0.000	0.07	11.2	OK
1.004	S1009	37	96.216	-0.392	0.000	0.18	47.9	OK
4.000	S1010	37	98.039	-0.261	0.000	0.04	8.3	OK
4.001	S1011	37	97.014	-0.256	0.000	0.05	8.3	OK
1.005	S1012	37	96.154	-0.376	0.000	0.30	61.8	OK
5.000	S1013	37	96.682	-0.330	0.000	0.03	6.4	OK
1.006	S1014	37	96.021	-0.469	0.000	0.11	79.7	OK
1.007	S1015	43	95.324	-0.425	0.000	0.30	86.7	OK
1.008	S1016	47	95.239	-0.166	0.000	0.35	103.8	OK
1.009	S1017	49	95.213	-0.412	0.000	0.26	107.6	OK
1.010	S1019	52	95.146	-0.269	0.000	0.39	106.8	OK
1.011	S1020	49	95.146	-0.229	0.000	0.32	110.5	OK
1.012	S1021	47	95.144	-0.148	0.000	0.24	110.4	OK
1.013	S1022	47	95.143	-0.052	0.000	0.79	110.1	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000	S4021 - Headwall	S8143	37	96.790	-0.310	0.000	0.07	14.5
6.001		S8130	37	96.251	-0.359	0.000	0.09	22.0
6.002		S8158	37	96.098	-0.331	0.000	0.16	23.0
6.003		S8129	37	95.957	-0.363	0.000	0.08	27.9
7.000		S4004	41	95.770	-0.298	0.000	0.09	9.3
6.004		S4005	43	95.631	-0.338	0.000	0.14	45.0
6.005		S8122	43	95.322	-0.272	0.000	0.33	46.5
8.000		S8166	44	95.254	-0.299	0.000	0.07	5.8
6.006		S8123	48	95.230	-0.280	0.000	0.31	58.3
6.007	S4020	S8125	47	95.144	-0.221	0.000	0.26	65.2
6.008		46	95.142	-0.058	0.000	0.19	67.6	
6.009		46	95.142	0.022	0.000	0.57	67.0	
1.014	S4023 - Control Chamber	S4022	46	95.142	-0.053	0.000	0.65	175.9
1.015		36	95.141	0.341	0.000	0.12	7.1	

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	41	99.999	-0.196	0.000	0.04		2.7	OK
1.001	S1003	41	99.328	-0.262	0.000	0.04		6.6	OK
1.002	S1004	41	98.827	-0.253	0.000	0.06		8.5	OK
2.000	S1005	41	98.807	-0.252	0.000	0.06		7.5	OK
1.003	S1006	41	98.403	-0.242	0.000	0.08		20.3	OK
3.000	S1007	41	96.576	-0.394	0.000	0.04		9.0	OK
3.001	S1008	41	96.328	-0.382	0.000	0.06		9.0	OK
1.004	S1009	41	96.192	-0.416	0.000	0.15		38.3	OK
4.000	S1010	41	98.035	-0.265	0.000	0.03		6.6	OK
4.001	S1011	41	97.010	-0.260	0.000	0.04		6.6	OK
1.005	S1012	41	96.128	-0.402	0.000	0.24		49.4	OK
5.000	S1013	41	96.678	-0.334	0.000	0.03		5.1	OK
1.006	S1014	41	96.008	-0.482	0.000	0.09		63.7	OK
1.007	S1015	45	95.296	-0.453	0.000	0.24		69.2	OK
1.008	S1016	51	95.206	-0.199	0.000	0.28		83.1	OK
1.009	S1017	51	95.178	-0.447	0.000	0.21		86.8	OK
1.010	S1019	48	95.161	-0.254	0.000	0.31		85.9	OK
1.011	S1020	45	95.161	-0.214	0.000	0.25		88.1	OK
1.012	S1021	44	95.160	-0.132	0.000	0.19		86.2	OK
1.013	S1022	44	95.159	-0.036	0.000	0.62		85.8	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000	S8143	41	96.782	-0.318	0.000	0.06		11.6
6.001	S8130	41	96.240	-0.370	0.000	0.07		17.6
6.002	S8158	41	96.085	-0.345	0.000	0.13		18.4
6.003	S8129	41	95.945	-0.375	0.000	0.07		22.3
7.000	S4004	44	95.761	-0.308	0.000	0.07		7.4
6.004	S4005	45	95.619	-0.350	0.000	0.11		35.9
6.005	S8122	45	95.301	-0.293	0.000	0.26		37.1
8.000	S8166	49	95.240	-0.313	0.000	0.05		4.6
6.006	S8123	51	95.210	-0.300	0.000	0.24		46.6
6.007	S8125	43	95.159	-0.205	0.000	0.21		52.2
6.008	S4020	43	95.158	-0.042	0.000	0.15		53.7
6.009	S4021 - Headwall	43	95.158	0.038	0.000	0.46		53.3
1.014	S4022	43	95.157	-0.038	0.000	0.50		135.5
1.015	S4023 - Control Chamber	33	95.157	0.357	0.000	0.12		7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

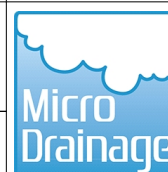
Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	46	99.997	-0.198	0.000	0.03		2.3	OK
1.001	S1003	46	99.325	-0.265	0.000	0.03		5.6	OK
1.002	S1004	46	98.823	-0.257	0.000	0.05		7.1	OK
2.000	S1005	46	98.802	-0.257	0.000	0.05		6.3	OK
1.003	S1006	46	98.397	-0.248	0.000	0.07		17.1	OK
3.000	S1007	46	96.572	-0.398	0.000	0.03		7.5	OK
3.001	S1008	46	96.322	-0.388	0.000	0.05		7.5	OK
1.004	S1009	46	96.176	-0.432	0.000	0.12		32.2	OK
4.000	S1010	46	98.033	-0.267	0.000	0.03		5.5	OK
4.001	S1011	46	97.007	-0.263	0.000	0.04		5.5	OK
1.005	S1012	46	96.112	-0.418	0.000	0.20		41.5	OK
5.000	S1013	46	96.676	-0.336	0.000	0.02		4.3	OK
1.006	S1014	46	95.996	-0.494	0.000	0.07		53.5	OK
1.007	S1015	49	95.278	-0.471	0.000	0.20		58.1	OK
1.008	S1016	53	95.187	-0.218	0.000	0.23		69.8	OK
1.009	S1017	54	95.170	-0.455	0.000	0.18		73.1	OK
1.010	S1019	46	95.170	-0.245	0.000	0.26		72.8	OK
1.011	S1020	43	95.169	-0.206	0.000	0.21		74.9	OK
1.012	S1021	43	95.168	-0.124	0.000	0.16		73.5	OK
1.013	S1022	43	95.167	-0.028	0.000	0.52		72.6	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow (1/s)			
6.000		S8143	46	96.777	-0.323	0.000	0.05		9.7
6.001		S8130	46	96.232	-0.378	0.000	0.06		14.8
6.002		S8158	46	96.076	-0.353	0.000	0.11		15.5
6.003		S8129	46	95.938	-0.382	0.000	0.06		18.7
7.000		S4004	48	95.754	-0.314	0.000	0.06		6.3
6.004		S4005	49	95.611	-0.357	0.000	0.10		30.2
6.005		S8122	49	95.288	-0.306	0.000	0.22		31.2
8.000		S8166	54	95.232	-0.321	0.000	0.04		3.9
6.006		S8123	54	95.198	-0.312	0.000	0.20		39.1
6.007		S8125	42	95.168	-0.196	0.000	0.18		43.8
6.008		S4020	42	95.167	-0.033	0.000	0.13		44.9
6.009	S4021 - Headwall	42	95.167	0.047	1.565	0.38			44.6
1.014		S4022	42	95.166	-0.029	0.000	0.43		115.0
1.015	S4023 - Control Chamber	32	95.166	0.366	0.000	0.12			7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	FLOOD
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 720 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

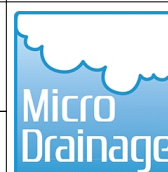
Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	51	99.995	-0.200	0.000	0.03		2.0	OK
1.001	S1003	51	99.323	-0.267	0.000	0.03		4.8	OK
1.002	S1004	51	98.820	-0.260	0.000	0.04		6.2	OK
2.000	S1005	51	98.799	-0.260	0.000	0.04		5.4	OK
1.003	S1006	51	98.393	-0.252	0.000	0.06		14.8	OK
3.000	S1007	51	96.569	-0.401	0.000	0.03		6.5	OK
3.001	S1008	51	96.318	-0.392	0.000	0.04		6.5	OK
1.004	S1009	51	96.162	-0.446	0.000	0.11		27.9	OK
4.000	S1010	51	98.031	-0.269	0.000	0.02		4.8	OK
4.001	S1011	51	97.004	-0.266	0.000	0.03		4.8	OK
1.005	S1012	51	96.097	-0.433	0.000	0.17		36.0	OK
5.000	S1013	51	96.672	-0.340	0.000	0.02		3.7	OK
1.006	S1014	51	95.987	-0.503	0.000	0.06		46.4	OK
1.007	S1015	53	95.261	-0.488	0.000	0.17		50.4	OK
1.008	S1016	56	95.173	-0.232	0.000	0.20		60.5	OK
1.009	S1017	53	95.171	-0.454	0.000	0.15		63.3	OK
1.010	S1019	45	95.171	-0.244	0.000	0.23		63.1	OK
1.011	S1020	42	95.170	-0.205	0.000	0.19		64.9	OK
1.012	S1021	42	95.169	-0.123	0.000	0.14		63.7	OK
1.013	S1022	42	95.169	-0.026	0.000	0.45		63.1	OK

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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000		S8143	51	96.773	-0.327	0.000	0.04	8.4
6.001		S8130	51	96.227	-0.383	0.000	0.05	12.8
6.002		S8158	51	96.071	-0.359	0.000	0.09	13.4
6.003		S8129	51	95.933	-0.387	0.000	0.05	16.2
7.000		S4004	52	95.749	-0.319	0.000	0.05	5.4
6.004		S4005	52	95.605	-0.364	0.000	0.08	26.1
6.005		S8122	52	95.278	-0.316	0.000	0.19	27.0
8.000		S8166	56	95.227	-0.326	0.000	0.04	3.3
6.006		S8123	56	95.187	-0.323	0.000	0.18	33.9
6.007		S8125	41	95.169	-0.195	0.000	0.15	37.9
6.008		S4020	41	95.168	-0.032	0.000	0.11	38.8
6.009	S4021 - Headwall	41	95.167		0.047	0.000	0.33	38.5
1.014		S4022	41	95.168	-0.027	0.000	0.37	99.6
1.015	S4023 - Control Chamber	30	95.167		0.367	0.000	0.12	7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

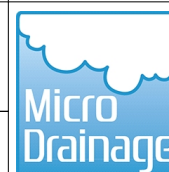
Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	54	99.993	-0.202	0.000	0.02		1.6	OK
1.001	S1003	54	99.320	-0.270	0.000	0.02		3.9	OK
1.002	S1004	54	98.816	-0.264	0.000	0.03		4.9	OK
2.000	S1005	54	98.795	-0.264	0.000	0.04		4.3	OK
1.003	S1006	54	98.387	-0.258	0.000	0.05		11.8	OK
3.000	S1007	54	96.566	-0.404	0.000	0.02		5.2	OK
3.001	S1008	54	96.313	-0.397	0.000	0.03		5.2	OK
1.004	S1009	54	96.144	-0.464	0.000	0.09		22.2	OK
4.000	S1010	54	98.027	-0.273	0.000	0.02		3.8	OK
4.001	S1011	54	97.002	-0.268	0.000	0.02		3.8	OK
1.005	S1012	54	96.078	-0.452	0.000	0.14		28.7	OK
5.000	S1013	54	96.665	-0.347	0.000	0.02		3.0	OK
1.006	S1014	54	95.976	-0.514	0.000	0.05		37.0	OK
1.007	S1015	58	95.240	-0.509	0.000	0.14		40.2	OK
1.008	S1016	55	95.174	-0.231	0.000	0.16		48.2	OK
1.009	S1017	52	95.173	-0.452	0.000	0.12		50.5	OK
1.010	S1019	44	95.173	-0.242	0.000	0.18		50.2	OK
1.011	S1020	41	95.172	-0.203	0.000	0.15		51.6	OK
1.012	S1021	41	95.171	-0.121	0.000	0.11		50.5	OK
1.013	S1022	41	95.171	-0.024	0.000	0.36		50.1	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow (1/s)			
6.000		S8143	54	96.769	-0.331	0.000	0.03		6.7
6.001		S8130	54	96.219	-0.391	0.000	0.04		10.2
6.002		S8158	54	96.059	-0.370	0.000	0.07		10.7
6.003		S8129	54	95.927	-0.393	0.000	0.04		12.9
7.000		S4004	55	95.743	-0.325	0.000	0.04		4.3
6.004		S4005	55	95.594	-0.375	0.000	0.07		20.8
6.005		S8122	55	95.262	-0.332	0.000	0.15		21.5
8.000		S8166	58	95.221	-0.332	0.000	0.03		2.7
6.006		S8123	58	95.172	-0.338	0.000	0.14		27.0
6.007		S8125	40	95.171	-0.194	0.000	0.12		30.2
6.008		S4020	40	95.170	-0.030	0.000	0.09		30.9
6.009	S4021 - Headwall	40	95.170	0.050	0.000	0.26			30.6
1.014		S4022	40	95.173	-0.022	0.000	0.29		79.1
1.015	S4023 - Control Chamber	29	95.169	0.369	0.000	0.12			7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	61	99.988	-0.207	0.000	0.02		1.1	OK
1.001	S1003	61	99.313	-0.277	0.000	0.02		2.8	OK
1.002	S1004	61	98.812	-0.268	0.000	0.02		3.6	OK
2.000	S1005	61	98.791	-0.268	0.000	0.03		3.2	OK
1.003	S1006	61	98.381	-0.264	0.000	0.04		8.6	OK
3.000	S1007	61	96.554	-0.416	0.000	0.02		3.8	OK
3.001	S1008	61	96.307	-0.403	0.000	0.02		3.8	OK
1.004	S1009	61	96.125	-0.483	0.000	0.06		16.1	OK
4.000	S1010	61	98.020	-0.280	0.000	0.01		2.8	OK
4.001	S1011	61	96.996	-0.274	0.000	0.02		2.8	OK
1.005	S1012	61	96.057	-0.473	0.000	0.10		20.8	OK
5.000	S1013	61	96.658	-0.354	0.000	0.01		2.1	OK
1.006	S1014	61	95.964	-0.526	0.000	0.04		26.8	OK
1.007	S1015	62	95.216	-0.533	0.000	0.10		29.2	OK
1.008	S1016	59	95.159	-0.246	0.000	0.12		35.0	OK
1.009	S1017	56	95.158	-0.467	0.000	0.09		36.7	OK
1.010	S1019	49	95.158	-0.257	0.000	0.13		36.4	OK
1.011	S1020	46	95.158	-0.217	0.000	0.11		37.4	OK
1.012	S1021	45	95.157	-0.135	0.000	0.08		36.6	OK
1.013	S1022	45	95.156	-0.039	0.000	0.26		36.3	OK

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Summary Wizard of 1440 minute 30 year Summer I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow			
6.000		S8143	61	96.764	-0.336	0.000	0.02		4.9
6.001		S8130	61	96.212	-0.398	0.000	0.03		7.4
6.002		S8158	61	96.046	-0.384	0.000	0.05		7.8
6.003		S8129	61	95.920	-0.400	0.000	0.03		9.4
7.000		S4004	61	95.737	-0.332	0.000	0.03		3.1
6.004		S4005	61	95.581	-0.387	0.000	0.05		15.1
6.005		S8122	62	95.245	-0.349	0.000	0.11		15.6
8.000		S8166	62	95.217	-0.337	0.000	0.02		1.9
6.006		S8123	62	95.157	-0.353	0.000	0.10		19.6
6.007		S8125	44	95.156	-0.208	0.000	0.09		21.9
6.008		S4020	44	95.156	-0.044	0.000	0.06		22.4
6.009	S4021 - Headwall	44	95.156		0.036	0.693	0.19		22.2
1.014		S4022	44	95.156	-0.039	0.000	0.21		57.4
1.015	S4023 - Control Chamber	34	95.155		0.355	0.000	0.12		7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	FLOOD
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	18	100.020	-0.175	0.000	0.11		7.4	OK
1.001	S1003	19	99.353	-0.237	0.000	0.10		16.7	OK
1.002	S1004	19	98.857	-0.223	0.000	0.15		21.0	OK
2.000	S1005	18	98.842	-0.217	0.000	0.17		20.9	OK
1.003	S1006	19	98.440	-0.205	0.000	0.21		51.8	OK
3.000	S1007	18	96.618	-0.352	0.000	0.10		24.6	OK
3.001	S1008	19	96.386	-0.324	0.000	0.15		23.9	OK
1.004	S1009	19	96.317	-0.291	0.000	0.36		93.0	OK
4.000	S1010	18	98.061	-0.239	0.000	0.09		18.4	OK
4.001	S1011	18	97.039	-0.231	0.000	0.12		18.2	OK
1.005	S1012	19	96.256	-0.274	0.000	0.57		117.4	OK
5.000	S1013	18	96.706	-0.306	0.000	0.08		14.1	OK
1.006	S1014	20	96.072	-0.418	0.000	0.20		148.3	OK
1.007	S1015	33	95.432	-0.317	0.000	0.55		159.1	OK
1.008	S1016	34	95.308	-0.097	0.000	0.60		181.5	OK
1.009	S1017	34	95.273	-0.352	0.000	0.42		176.6	OK
1.010	S1019	43	95.175	-0.240	0.000	0.56		152.7	OK
1.011	S1020	48	95.148	-0.227	0.000	0.43		149.1	OK
1.012	S1021	49	95.115	-0.177	0.000	0.30		140.5	OK
1.013	S1022	49	95.095	-0.100	0.000	1.00		138.6	OK

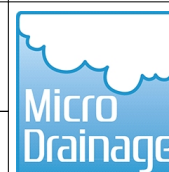
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Summary Wizard of 15 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe	Status
								Flow (l/s)	
6.000	S4021 - Headwall	S8143	18	96.824	-0.276	0.000	0.15	31.9	OK
6.001		S8130	19	96.295	-0.315	0.000	0.19	45.9	OK
6.002		S8158	19	96.158	-0.272	0.000	0.32	46.8	OK
6.003		S8129	19	95.993	-0.327	0.000	0.17	55.7	OK
7.000		S4004	20	95.810	-0.259	0.000	0.20	20.3	OK
6.004		S4005	27	95.682	-0.287	0.000	0.28	88.5	OK
6.005		S8122	32	95.407	-0.187	0.000	0.63	90.3	OK
8.000		S8166	33	95.314	-0.239	0.000	0.14	12.3	OK
6.006		S8123	33	95.306	-0.204	0.000	0.57	109.6	OK
6.007	S4020	S8125	49	95.099	-0.265	0.000	0.47	117.4	OK
6.008		S4020	49	95.026	-0.174	0.000	0.33	114.1	OK
6.009		S4021 - Headwall	49	95.016	-0.104	0.000	0.94	110.2	OK
1.014	S4023 - Control Chamber	S4022	49	94.979	-0.216	0.000	0.80	216.6	OK
1.015		S4023 - Control Chamber	71	94.654	-0.146	0.000	0.10	5.8	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	24	100.014	-0.181	0.000	0.09		5.8	OK
1.001	S1003	26	99.346	-0.244	0.000	0.08		13.7	OK
1.002	S1004	26	98.849	-0.231	0.000	0.12		17.3	OK
2.000	S1005	24	98.831	-0.228	0.000	0.13		16.2	OK
1.003	S1006	26	98.429	-0.216	0.000	0.17		42.2	OK
3.000	S1007	24	96.606	-0.364	0.000	0.08		19.4	OK
3.001	S1008	26	96.366	-0.344	0.000	0.12		19.2	OK
1.004	S1009	26	96.284	-0.324	0.000	0.30		77.9	OK
4.000	S1010	24	98.053	-0.247	0.000	0.07		14.3	OK
4.001	S1011	24	97.031	-0.239	0.000	0.09		14.3	OK
1.005	S1012	26	96.224	-0.306	0.000	0.48		99.3	OK
5.000	S1013	24	96.696	-0.316	0.000	0.06		11.0	OK
1.006	S1014	26	96.056	-0.434	0.000	0.17		126.7	OK
1.007	S1015	37	95.399	-0.350	0.000	0.47		135.9	OK
1.008	S1016	36	95.294	-0.111	0.000	0.53		158.3	OK
1.009	S1017	37	95.263	-0.362	0.000	0.38		157.5	OK
1.010	S1019	47	95.165	-0.250	0.000	0.52		142.2	OK
1.011	S1020	50	95.136	-0.239	0.000	0.41		141.7	OK
1.012	S1021	50	95.097	-0.195	0.000	0.30		138.7	OK
1.013	S1022	50	95.077	-0.118	0.000	1.00		138.3	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	33	100.005	-0.190	0.000	0.06		3.8	OK
1.001	S1003	33	99.335	-0.255	0.000	0.05		9.4	OK
1.002	S1004	33	98.838	-0.242	0.000	0.08		12.0	OK
2.000	S1005	33	98.819	-0.240	0.000	0.09		10.7	OK
1.003	S1006	33	98.414	-0.231	0.000	0.12		28.8	OK
3.000	S1007	33	96.587	-0.383	0.000	0.05		12.8	OK
3.001	S1008	33	96.345	-0.365	0.000	0.08		12.9	OK
1.004	S1009	33	96.232	-0.376	0.000	0.21		54.0	OK
4.000	S1010	33	98.042	-0.258	0.000	0.05		9.5	OK
4.001	S1011	33	97.018	-0.252	0.000	0.06		9.4	OK
1.005	S1012	33	96.170	-0.360	0.000	0.34		69.2	OK
5.000	S1013	33	96.685	-0.327	0.000	0.04		7.3	OK
1.006	S1014	33	96.028	-0.462	0.000	0.12		88.8	OK
1.007	S1015	41	95.342	-0.407	0.000	0.33		96.6	OK
1.008	S1016	45	95.245	-0.160	0.000	0.38		114.5	OK
1.009	S1017	48	95.217	-0.408	0.000	0.28		116.9	OK
1.010	S1019	54	95.106	-0.309	0.000	0.41		112.0	OK
1.011	S1020	54	95.074	-0.301	0.000	0.33		114.2	OK
1.012	S1021	54	95.033	-0.259	0.000	0.24		113.1	OK
1.013	S1022	54	95.016	-0.179	0.000	0.81		112.8	OK

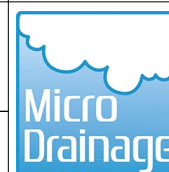
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Summary Wizard of 60 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe	Status
								Flow (l/s)	
6.000	S4021 - Headwall	S8143	33	96.796	-0.304	0.000	0.08	16.5	OK
6.001		S8130	33	96.257	-0.353	0.000	0.10	25.0	OK
6.002		S8158	33	96.107	-0.322	0.000	0.18	26.2	OK
6.003		S8129	33	95.963	-0.357	0.000	0.09	31.6	OK
7.000		S4004	37	95.775	-0.293	0.000	0.11	10.6	OK
6.004		S4005	41	95.639	-0.330	0.000	0.16	50.9	OK
6.005		S8122	41	95.334	-0.260	0.000	0.37	52.1	OK
8.000		S8166	41	95.262	-0.291	0.000	0.08	6.5	OK
6.006		S8123	45	95.242	-0.268	0.000	0.34	65.3	OK
6.007	S4020	S8125	54	95.042	-0.322	0.000	0.29	72.5	OK
6.008		54	94.961	-0.239	0.000	0.21	72.2	OK	
6.009		54	94.953	-0.167	0.000	0.61	71.5	OK	
1.014	S4023 - Control Chamber	S4022	54	94.920	-0.275	0.000	0.66	177.3	OK
1.015		67	94.740	-0.060	0.000	0.12	6.8	OK	

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Summary Wizard of 120 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	45	99.998	-0.197	0.000	0.04		2.4	OK
1.001	S1003	45	99.326	-0.264	0.000	0.03		6.0	OK
1.002	S1004	45	98.824	-0.256	0.000	0.05		7.7	OK
2.000	S1005	45	98.804	-0.255	0.000	0.06		6.8	OK
1.003	S1006	45	98.400	-0.245	0.000	0.08		18.3	OK
3.000	S1007	45	96.574	-0.396	0.000	0.03		8.1	OK
3.001	S1008	45	96.325	-0.385	0.000	0.05		8.1	OK
1.004	S1009	45	96.183	-0.425	0.000	0.13		34.5	OK
4.000	S1010	45	98.034	-0.266	0.000	0.03		6.0	OK
4.001	S1011	45	97.008	-0.262	0.000	0.04		6.0	OK
1.005	S1012	45	96.119	-0.411	0.000	0.21		44.3	OK
5.000	S1013	45	96.677	-0.335	0.000	0.02		4.6	OK
1.006	S1014	44	96.001	-0.489	0.000	0.08		57.1	OK
1.007	S1015	47	95.285	-0.464	0.000	0.21		61.9	OK
1.008	S1016	52	95.190	-0.215	0.000	0.25		73.8	OK
1.009	S1017	55	95.158	-0.467	0.000	0.19		77.6	OK
1.010	S1019	56	95.027	-0.388	0.000	0.28		76.9	OK
1.011	S1020	56	94.991	-0.384	0.000	0.23		79.0	OK
1.012	S1021	56	94.943	-0.349	0.000	0.17		79.0	OK
1.013	S1022	56	94.932	-0.263	0.000	0.57		78.9	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

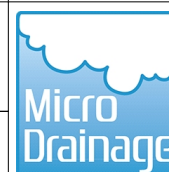
 Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
1.000	S1002	52	99.995	-0.200	0.000	0.03	1.9	OK	
1.001	S1003	52	99.322	-0.268	0.000	0.03	4.6	OK	
1.002	S1004	52	98.819	-0.261	0.000	0.04	5.8	OK	
2.000	S1005	52	98.798	-0.261	0.000	0.04	5.2	OK	
1.003	S1006	52	98.391	-0.254	0.000	0.06	13.9	OK	
3.000	S1007	52	96.568	-0.402	0.000	0.03	6.2	OK	
3.001	S1008	52	96.317	-0.393	0.000	0.04	6.2	OK	
1.004	S1009	52	96.157	-0.451	0.000	0.10	26.2	OK	
4.000	S1010	52	98.031	-0.269	0.000	0.02	4.5	OK	
4.001	S1011	52	97.004	-0.266	0.000	0.03	4.5	OK	
1.005	S1012	52	96.092	-0.438	0.000	0.16	33.9	OK	
5.000	S1013	52	96.671	-0.341	0.000	0.02	3.5	OK	
1.006	S1014	52	95.984	-0.506	0.000	0.06	43.6	OK	
1.007	S1015	55	95.255	-0.494	0.000	0.16	47.4	OK	
1.008	S1016	58	95.162	-0.243	0.000	0.19	56.8	OK	
1.009	S1017	59	95.127	-0.498	0.000	0.14	59.3	OK	
1.010	S1019	59	94.984	-0.431	0.000	0.22	59.5	OK	
1.011	S1020	59	94.947	-0.428	0.000	0.18	61.4	OK	
1.012	S1021	59	94.896	-0.396	0.000	0.13	61.2	OK	
1.013	S1022	59	94.887	-0.308	0.000	0.44	61.2	OK	

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Summary Wizard of 180 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow			Flow (1/s)
6.000	S4021 - Headwall	S8143	52	96.772	-0.328	0.000	0.04		8.0
6.001		S8130	52	96.225	-0.385	0.000	0.05		12.1
6.002		S8158	52	96.068	-0.361	0.000	0.09		12.6
6.003		S8129	52	95.932	-0.388	0.000	0.05		15.3
7.000		S4004	53	95.748	-0.321	0.000	0.05		5.1
6.004		S4005	53	95.602	-0.367	0.000	0.08		24.6
6.005		S8122	53	95.273	-0.321	0.000	0.18		25.5
8.000		S8166	57	95.225	-0.328	0.000	0.04		3.2
6.006		S8123	57	95.183	-0.327	0.000	0.17		31.9
6.007	S4020	S8125	59	94.971	-0.393	0.000	0.14		35.7
6.008		S4020	64	94.833	-0.367	0.000	0.11		37.4
6.009		S4021 - Headwall	65	94.829	-0.291	0.000	0.32		37.3
1.014	S4023 - Control Chamber	S4022	66	94.806	-0.389	0.000	0.36		97.6
1.015		S4023 - Control Chamber	56	94.805	0.005	0.000	0.12		7.0

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 240 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

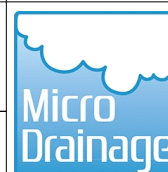
Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
1.000	S1002	56	99.993	-0.202	0.000	0.02	1.5	OK	
1.001	S1003	56	99.320	-0.270	0.000	0.02	3.7	OK	
1.002	S1004	56	98.815	-0.265	0.000	0.03	4.8	OK	
2.000	S1005	56	98.795	-0.264	0.000	0.03	4.2	OK	
1.003	S1006	56	98.387	-0.258	0.000	0.05	11.4	OK	
3.000	S1007	56	96.565	-0.405	0.000	0.02	5.0	OK	
3.001	S1008	56	96.312	-0.398	0.000	0.03	5.0	OK	
1.004	S1009	56	96.142	-0.466	0.000	0.08	21.5	OK	
4.000	S1010	56	98.026	-0.274	0.000	0.02	3.7	OK	
4.001	S1011	56	97.001	-0.269	0.000	0.02	3.7	OK	
1.005	S1012	56	96.075	-0.455	0.000	0.13	27.6	OK	
5.000	S1013	56	96.664	-0.348	0.000	0.02	2.9	OK	
1.006	S1014	56	95.974	-0.516	0.000	0.05	35.6	OK	
1.007	S1015	60	95.237	-0.512	0.000	0.13	38.7	OK	
1.008	S1016	61	95.146	-0.259	0.000	0.15	46.4	OK	
1.009	S1017	61	95.108	-0.517	0.000	0.12	48.8	OK	
1.010	S1019	60	94.958	-0.457	0.000	0.18	49.0	OK	
1.011	S1020	60	94.920	-0.455	0.000	0.15	50.8	OK	
1.012	S1021	60	94.866	-0.426	0.000	0.11	50.7	OK	
1.013	S1022	60	94.858	-0.337	0.000	0.37	50.7	OK	

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PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m ³)	Flow			Flow
6.000		S8143	56	96.768	-0.332	0.000	0.03		6.5
6.001		S8130	56	96.218	-0.392	0.000	0.04		9.9
6.002		S8158	56	96.057	-0.372	0.000	0.07		10.3
6.003		S8129	56	95.926	-0.394	0.000	0.04		12.5
7.000		S4004	57	95.743	-0.326	0.000	0.04		4.2
6.004		S4005	57	95.592	-0.376	0.000	0.06		20.1
6.005		S8122	58	95.260	-0.334	0.000	0.15		20.8
8.000		S8166	60	95.221	-0.333	0.000	0.03		2.6
6.006		S8123	60	95.170	-0.340	0.000	0.14		26.0
6.007		S8125	61	94.958	-0.406	0.000	0.12		29.2
6.008		S4020	66	94.820	-0.380	0.000	0.09		30.9
6.009	S4021 - Headwall	66	94.821	-0.299	0.000	0.26		30.7	
1.014		S4022	64	94.820	-0.375	0.000	0.30		81.0
1.015	S4023 - Control Chamber	55	94.819	0.019	0.000	0.12		7.0	

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

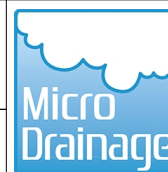
Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

			Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s) Status
1.000	S1002	62	99.988	-0.207	0.000	0.02	1.1	OK
1.001	S1003	62	99.313	-0.277	0.000	0.02	2.8	OK
1.002	S1004	62	98.812	-0.268	0.000	0.02	3.6	OK
2.000	S1005	62	98.791	-0.268	0.000	0.03	3.1	OK
1.003	S1006	62	98.381	-0.264	0.000	0.04	8.5	OK
3.000	S1007	62	96.554	-0.416	0.000	0.02	3.8	OK
3.001	S1008	62	96.307	-0.403	0.000	0.02	3.8	OK
1.004	S1009	62	96.125	-0.483	0.000	0.06	16.1	OK
4.000	S1010	62	98.020	-0.280	0.000	0.01	2.8	OK
4.001	S1011	62	96.995	-0.275	0.000	0.02	2.8	OK
1.005	S1012	62	96.057	-0.473	0.000	0.10	20.7	OK
5.000	S1013	62	96.657	-0.355	0.000	0.01	2.1	OK
1.006	S1014	62	95.963	-0.527	0.000	0.04	26.7	OK
1.007	S1015	63	95.216	-0.533	0.000	0.10	29.0	OK
1.008	S1016	63	95.125	-0.280	0.000	0.12	34.9	OK
1.009	S1017	63	95.087	-0.538	0.000	0.09	36.5	OK
1.010	S1019	63	94.926	-0.489	0.000	0.13	37.0	OK
1.011	S1020	63	94.886	-0.489	0.000	0.11	38.3	OK
1.012	S1021	66	94.840	-0.452	0.000	0.08	38.2	OK
1.013	S1022	66	94.839	-0.356	0.000	0.27	38.1	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow			
6.000		S8143	62	96.764	-0.336	0.000	0.02		4.9
6.001		S8130	62	96.211	-0.399	0.000	0.03		7.4
6.002		S8158	62	96.046	-0.384	0.000	0.05		7.7
6.003		S8129	62	95.920	-0.400	0.000	0.03		9.4
7.000		S4004	62	95.737	-0.332	0.000	0.03		3.1
6.004		S4005	62	95.581	-0.387	0.000	0.05		15.1
6.005		S8122	63	95.244	-0.350	0.000	0.11		15.6
8.000		S8166	63	95.217	-0.337	0.000	0.02		1.9
6.006		S8123	63	95.156	-0.354	0.000	0.10		19.5
6.007		S8125	63	94.944	-0.420	0.000	0.09		21.9
6.008		S4020	63	94.838	-0.362	0.000	0.07		23.2
6.009	S4021 - Headwall	62	94.838		-0.282	0.000	0.20		23.1
1.014		S4022	61	94.837	-0.358	0.000	0.23		61.1
1.015	S4023 - Control Chamber	52	94.837		0.037	0.000	0.12		7.0

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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

	US/MH	Storm	Water Level	Surcharged Depth	Flooded Volume	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
PN	Name	Rank	(m)	(m)	(m³)				
1.000	S1002	64	99.984	-0.211	0.000	0.01		0.9	OK
1.001	S1003	64	99.308	-0.282	0.000	0.01		2.3	OK
1.002	S1004	64	98.808	-0.272	0.000	0.02		2.9	OK
2.000	S1005	64	98.789	-0.270	0.000	0.02		2.5	OK
1.003	S1006	64	98.378	-0.267	0.000	0.03		6.9	OK
3.000	S1007	64	96.547	-0.423	0.000	0.01		3.1	OK
3.001	S1008	64	96.301	-0.409	0.000	0.02		3.1	OK
1.004	S1009	64	96.111	-0.497	0.000	0.05		13.0	OK
4.000	S1010	64	98.016	-0.284	0.000	0.01		2.2	OK
4.001	S1011	64	96.991	-0.279	0.000	0.01		2.2	OK
1.005	S1012	64	96.044	-0.486	0.000	0.08		16.8	OK
5.000	S1013	64	96.654	-0.358	0.000	0.01		1.7	OK
1.006	S1014	64	95.957	-0.533	0.000	0.03		21.6	OK
1.007	S1015	65	95.201	-0.548	0.000	0.08		23.5	OK
1.008	S1016	65	95.112	-0.293	0.000	0.09		28.2	OK
1.009	S1017	65	95.070	-0.555	0.000	0.07		29.6	OK
1.010	S1019	65	94.905	-0.510	0.000	0.11		29.9	OK
1.011	S1020	65	94.866	-0.509	0.000	0.09		30.9	OK
1.012	S1021	63	94.846	-0.446	0.000	0.07		30.8	OK
1.013	S1022	62	94.847	-0.348	0.000	0.22		30.7	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe
								Flow (l/s)
6.000		S8143	64	96.759	-0.341	0.000	0.02	3.9
6.001		S8130	64	96.208	-0.402	0.000	0.02	6.0
6.002		S8158	64	96.039	-0.391	0.000	0.04	6.3
6.003		S8129	64	95.916	-0.404	0.000	0.02	7.6
7.000		S4004	64	95.733	-0.335	0.000	0.03	2.5
6.004		S4005	64	95.575	-0.393	0.000	0.04	12.2
6.005		S8122	65	95.235	-0.359	0.000	0.09	12.6
8.000		S8166	65	95.210	-0.343	0.000	0.02	1.6
6.006		S8123	65	95.146	-0.364	0.000	0.08	15.8
6.007		S8125	65	94.931	-0.433	0.000	0.07	17.7
6.008		S4020	59	94.845	-0.355	0.000	0.05	18.7
6.009	S4021 - Headwall	59	94.845	-0.275	0.000	0.16		18.7
1.014		S4022	57	94.844	-0.351	0.000	0.18	48.9
1.015	S4023 - Control Chamber	49	94.844	0.044	0.000	0.12		7.0

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	67	99.982	-0.213	0.000	0.01		0.8	OK
1.001	S1003	67	99.306	-0.284	0.000	0.01		1.9	OK
1.002	S1004	67	98.804	-0.276	0.000	0.02		2.4	OK
2.000	S1005	67	98.784	-0.275	0.000	0.02		2.2	OK
1.003	S1006	67	98.376	-0.269	0.000	0.02		5.8	OK
3.000	S1007	67	96.543	-0.427	0.000	0.01		2.6	OK
3.001	S1008	67	96.294	-0.416	0.000	0.02		2.6	OK
1.004	S1009	67	96.101	-0.507	0.000	0.04		11.0	OK
4.000	S1010	67	98.014	-0.286	0.000	0.01		1.9	OK
4.001	S1011	67	96.987	-0.283	0.000	0.01		1.9	OK
1.005	S1012	67	96.033	-0.497	0.000	0.07		14.2	OK
5.000	S1013	67	96.651	-0.361	0.000	0.01		1.5	OK
1.006	S1014	67	95.953	-0.537	0.000	0.02		18.3	OK
1.007	S1015	67	95.189	-0.560	0.000	0.07		19.9	OK
1.008	S1016	67	95.103	-0.302	0.000	0.08		24.0	OK
1.009	S1017	67	95.058	-0.567	0.000	0.06		25.1	OK
1.010	S1019	67	94.893	-0.522	0.000	0.09		25.4	OK
1.011	S1020	67	94.854	-0.521	0.000	0.08		26.2	OK
1.012	S1021	62	94.847	-0.445	0.000	0.06		26.1	OK
1.013	S1022	63	94.846	-0.349	0.000	0.19		26.0	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000	S4021 - Headwall	S8143	67	96.753	-0.347	0.000	0.02	3.3
6.001		S8130	67	96.205	-0.405	0.000	0.02	5.1
6.002		S8158	67	96.034	-0.395	0.000	0.04	5.3
6.003		S8129	67	95.911	-0.409	0.000	0.02	6.4
7.000		S4004	67	95.731	-0.337	0.000	0.02	2.1
6.004		S4005	67	95.571	-0.397	0.000	0.03	10.3
6.005		S8122	67	95.227	-0.367	0.000	0.08	10.7
8.000		S8166	67	95.206	-0.348	0.000	0.02	1.3
6.006		S8123	67	95.138	-0.372	0.000	0.07	13.4
6.007		S8125	67	94.922	-0.442	0.000	0.06	15.1
6.008	S4023 - Control Chamber	S4020	58	94.846	-0.354	0.000	0.05	15.8
6.009		S4021 - Headwall	58	94.846	-0.274	0.000	0.13	15.7
1.014		S4022	56	94.845	-0.350	0.000	0.15	41.2
1.015			48	94.845	0.045	0.000	0.12	7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	69	99.981	-0.214	0.000	0.01		0.7	OK
1.001	S1003	69	99.304	-0.286	0.000	0.01		1.7	OK
1.002	S1004	69	98.801	-0.279	0.000	0.01		2.1	OK
2.000	S1005	69	98.781	-0.278	0.000	0.02		1.9	OK
1.003	S1006	69	98.375	-0.270	0.000	0.02		5.1	OK
3.000	S1007	69	96.540	-0.430	0.000	0.01		2.3	OK
3.001	S1008	69	96.290	-0.420	0.000	0.01		2.3	OK
1.004	S1009	69	96.094	-0.514	0.000	0.04		9.6	OK
4.000	S1010	69	98.012	-0.288	0.000	0.01		1.7	OK
4.001	S1011	69	96.985	-0.285	0.000	0.01		1.7	OK
1.005	S1012	69	96.025	-0.505	0.000	0.06		12.4	OK
5.000	S1013	69	96.649	-0.363	0.000	0.01		1.3	OK
1.006	S1014	69	95.951	-0.539	0.000	0.02		16.0	OK
1.007	S1015	69	95.180	-0.569	0.000	0.06		17.4	OK
1.008	S1016	69	95.097	-0.308	0.000	0.07		20.9	OK
1.009	S1017	69	95.050	-0.575	0.000	0.05		22.0	OK
1.010	S1019	69	94.884	-0.531	0.000	0.08		22.2	OK
1.011	S1020	69	94.847	-0.528	0.000	0.07		23.0	OK
1.012	S1021	64	94.845	-0.447	0.000	0.05		22.8	OK
1.013	S1022	64	94.844	-0.351	0.000	0.16		22.7	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000	S4021 - Headwall	S8143	69	96.750	-0.350	0.000	0.01	2.9
6.001		S8130	69	96.199	-0.411	0.000	0.02	4.4
6.002		S8158	69	96.031	-0.398	0.000	0.03	4.6
6.003		S8129	69	95.906	-0.414	0.000	0.02	5.6
7.000		S4004	69	95.727	-0.342	0.000	0.02	1.9
6.004		S4005	69	95.569	-0.400	0.000	0.03	9.0
6.005		S8122	69	95.220	-0.374	0.000	0.07	9.3
8.000		S8166	69	95.202	-0.351	0.000	0.01	1.2
6.006		S8123	69	95.132	-0.378	0.000	0.06	11.7
6.007		S8125	69	94.917	-0.448	0.000	0.05	13.2
6.008	S4023 - Control Chamber	S4020	60	94.844	-0.356	0.000	0.04	13.8
6.009			60	94.844	-0.276	0.000	0.12	13.7
1.014		S4022	58	94.843	-0.352	0.000	0.13	36.1
1.015		50	94.843	0.043	0.000	0.12	7.0	

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

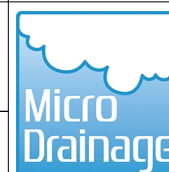
Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	70	99.979	-0.216	0.000	0.01		0.5	OK
1.001	S1003	70	99.301	-0.289	0.000	0.01		1.4	OK
1.002	S1004	70	98.797	-0.283	0.000	0.01		1.7	OK
2.000	S1005	70	98.777	-0.282	0.000	0.01		1.5	OK
1.003	S1006	70	98.369	-0.276	0.000	0.02		4.1	OK
3.000	S1007	70	96.536	-0.434	0.000	0.01		1.8	OK
3.001	S1008	70	96.284	-0.426	0.000	0.01		1.8	OK
1.004	S1009	70	96.085	-0.523	0.000	0.03		7.8	OK
4.000	S1010	70	98.010	-0.290	0.000	0.01		1.3	OK
4.001	S1011	70	96.982	-0.288	0.000	0.01		1.3	OK
1.005	S1012	70	96.015	-0.515	0.000	0.05		10.1	OK
5.000	S1013	70	96.647	-0.365	0.000	0.01		1.0	OK
1.006	S1014	70	95.940	-0.550	0.000	0.02		13.0	OK
1.007	S1015	70	95.169	-0.580	0.000	0.05		14.1	OK
1.008	S1016	70	95.089	-0.316	0.000	0.06		16.9	OK
1.009	S1017	70	95.040	-0.585	0.000	0.04		17.8	OK
1.010	S1019	70	94.871	-0.544	0.000	0.07		18.0	OK
1.011	S1020	70	94.846	-0.529	0.000	0.05		18.6	OK
1.012	S1021	65	94.844	-0.448	0.000	0.04		18.4	OK
1.013	S1022	65	94.843	-0.352	0.000	0.13		18.3	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow			
6.000		S8143	70	96.745	-0.355	0.000	0.01		2.4
6.001		S8130	70	96.192	-0.418	0.000	0.01		3.6
6.002		S8158	70	96.027	-0.402	0.000	0.03		3.7
6.003		S8129	70	95.899	-0.421	0.000	0.01		4.5
7.000		S4004	70	95.720	-0.348	0.000	0.02		1.5
6.004		S4005	70	95.565	-0.404	0.000	0.02		7.3
6.005		S8122	70	95.212	-0.382	0.000	0.05		7.6
8.000		S8166	70	95.198	-0.356	0.000	0.01		0.9
6.006		S8123	70	95.124	-0.386	0.000	0.05		9.5
6.007		S8125	70	94.909	-0.456	0.000	0.04		10.6
6.008		S4020	61	94.843	-0.357	0.000	0.03		11.2
6.009	S4021 - Headwall	61	94.843		-0.277	0.000	0.10		11.1
1.014		S4022	59	94.842	-0.353	0.000	0.11		29.1
1.015	S4023 - Control Chamber	51	94.842		0.042	0.000	0.12		7.0

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 4

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 Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.400	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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	72	99.976	-0.219	0.000	0.01		0.4	OK
1.001	S1003	72	99.298	-0.292	0.000	0.01		1.0	OK
1.002	S1004	72	98.793	-0.287	0.000	0.01		1.3	OK
2.000	S1005	72	98.772	-0.287	0.000	0.01		1.1	OK
1.003	S1006	72	98.363	-0.282	0.000	0.01		3.1	OK
3.000	S1007	72	96.532	-0.438	0.000	0.01		1.4	OK
3.001	S1008	72	96.278	-0.432	0.000	0.01		1.4	OK
1.004	S1009	72	96.075	-0.533	0.000	0.02		5.8	OK
4.000	S1010	72	98.007	-0.293	0.000	0.01		1.0	OK
4.001	S1011	72	96.979	-0.291	0.000	0.01		1.0	OK
1.005	S1012	72	96.003	-0.527	0.000	0.04		7.5	OK
5.000	S1013	72	96.644	-0.368	0.000	0.00		0.8	OK
1.006	S1014	72	95.927	-0.563	0.000	0.01		9.6	OK
1.007	S1015	72	95.156	-0.593	0.000	0.04		10.5	OK
1.008	S1016	72	95.081	-0.324	0.000	0.04		12.6	OK
1.009	S1017	72	95.028	-0.597	0.000	0.03		13.2	OK
1.010	S1019	72	94.850	-0.565	0.000	0.05		13.4	OK
1.011	S1020	71	94.836	-0.539	0.000	0.04		13.8	OK
1.012	S1021	68	94.833	-0.459	0.000	0.03		13.7	OK
1.013	S1022	67	94.832	-0.363	0.000	0.10		13.6	OK

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Summary Wizard of 1440 minute 1 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143 72	96.740	-0.360	0.000	0.01		1.7
6.001		S8130 72	96.184	-0.426	0.000	0.01		2.7
6.002		S8158 72	96.020	-0.410	0.000	0.02		2.8
6.003		S8129 72	95.891	-0.429	0.000	0.01		3.4
7.000		S4004 72	95.713	-0.355	0.000	0.01		1.1
6.004		S4005 72	95.555	-0.413	0.000	0.02		5.4
6.005		S8122 72	95.202	-0.392	0.000	0.04		5.6
8.000		S8166 72	95.193	-0.361	0.000	0.01		0.7
6.006		S8123 72	95.115	-0.395	0.000	0.04		7.0
6.007		S8125 72	94.900	-0.464	0.000	0.03		7.9
6.008		S4020 65	94.832	-0.368	0.000	0.02		8.3
6.009	S4021 - Headwall	64	94.831	-0.289	0.000	0.07		8.2
1.014	S4022	63	94.831	-0.364	0.000	0.08		21.7
1.015	S4023 - Control Chamber	53	94.831	0.031	0.000	0.12		7.0

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	OK
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

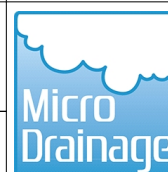
Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	6	100.050	-0.145	0.000	0.27		18.2	OK
1.001	S1003	6	99.396	-0.194	0.000	0.27		47.0	OK
1.002	S1004	6	98.916	-0.164	0.000	0.42		60.1	OK
2.000	S1005	6	98.895	-0.164	0.000	0.42		51.4	OK
1.003	S1006	6	98.512	-0.133	0.000	0.59		142.5	OK
3.000	S1007	7	96.697	-0.273	0.000	0.25		60.0	OK
3.001	S1008	7	96.635	-0.075	0.000	0.36		57.0	OK
1.004	S1009	7	96.608	0.000	0.000	0.93		242.8	SURCHARGED
4.000	S1010	6	98.097	-0.203	0.000	0.23		45.2	OK
4.001	S1011	6	97.081	-0.189	0.000	0.29		44.7	OK
1.005	S1012	7	96.536	0.006	0.000	1.48		305.2	SURCHARGED
5.000	S1013	7	96.747	-0.265	0.000	0.18		34.1	OK
1.006	S1014	8	96.206	-0.284	0.000	0.53		389.8	OK
1.007	S1015	8	95.968	0.219	0.000	1.31		382.6	SURCHARGED
1.008	S1016	8	95.928	0.523	0.000	1.42		427.1	SURCHARGED
1.009	S1017	9	95.846	0.221	0.000	1.00		417.2	SURCHARGED
1.010	S1019	13	95.713	0.298	0.000	1.39		380.9	SURCHARGED
1.011	S1020	17	95.661	0.286	0.000	1.09		382.1	SURCHARGED
1.012	S1021	22	95.570	0.278	0.000	0.81		379.7	SURCHARGED
1.013	S1022	24	95.511	0.316	0.000	2.69		373.2	SURCHARGED

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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)
6.000	S8143	6	96.886	-0.214	0.000	0.38		78.4
6.001	S8130	7	96.390	-0.220	0.000	0.51		121.4
6.002	S8158	7	96.307	-0.123	0.000	0.85		123.9
6.003	S8129	7	96.085	-0.235	0.000	0.44		147.8
7.000	S4004	7	96.071	0.003	0.000	0.49		48.5
6.004	S4005	7	96.043	0.075	0.000	0.66		207.2
6.005	S8122	8	95.911	0.317	0.000	1.46		207.2
8.000	S8166	12	95.758	0.205	0.000	0.33		28.4
6.006	S8123	13	95.746	0.236	0.000	1.32		252.4
6.007	S8125	22	95.559	0.195	0.000	1.07		265.7
6.008	S4020	25	95.436	0.236	0.000	0.78		271.3
6.009	S4021 - Headwall	25	95.411	0.291	0.000	2.24		262.1
1.014	S4022	25	95.366	0.171	0.000	2.20		594.4
1.015	S4023 - Control Chamber	47	94.854	0.054	0.000	0.12		7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	SURCHARGED
6.004	S4005	SURCHARGED
6.005	S8122	SURCHARGED
8.000	S8166	SURCHARGED
6.006	S8123	SURCHARGED
6.007	S8125	SURCHARGED
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	10	100.040	-0.155	0.000	0.21		14.3	OK
1.001	S1003	10	99.382	-0.208	0.000	0.20		35.4	OK
1.002	S1004	10	98.897	-0.183	0.000	0.32		45.3	OK
2.000	S1005	10	98.876	-0.183	0.000	0.33		39.8	OK
1.003	S1006	10	98.486	-0.159	0.000	0.45		108.7	OK
3.000	S1007	11	96.673	-0.297	0.000	0.20		47.2	OK
3.001	S1008	11	96.616	-0.094	0.000	0.28		45.2	OK
1.004	S1009	11	96.596	-0.012	0.000	0.70		183.3	OK
4.000	S1010	10	98.084	-0.216	0.000	0.18		35.0	OK
4.001	S1011	10	97.066	-0.204	0.000	0.23		35.0	OK
1.005	S1012	10	96.530	0.000	0.000	1.14		235.4	OK
5.000	S1013	10	96.732	-0.280	0.000	0.15		26.9	OK
1.006	S1014	11	96.158	-0.332	0.000	0.41		301.2	OK
1.007	S1015	9	95.884	0.135	0.000	1.07		313.1	SURCHARGED
1.008	S1016	10	95.843	0.438	0.000	1.18		355.2	SURCHARGED
1.009	S1017	13	95.759	0.134	0.000	0.84		350.7	SURCHARGED
1.010	S1019	21	95.631	0.216	0.000	1.25		342.3	SURCHARGED
1.011	S1020	23	95.582	0.207	0.000	0.99		345.5	SURCHARGED
1.012	S1021	25	95.500	0.208	0.000	0.74		345.3	SURCHARGED
1.013	S1022	26	95.451	0.256	0.000	2.47		342.8	SURCHARGED

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Summary Wizard of 30 minute 30 year Winter I+0% for Surface Network 4								
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143 10	96.864	-0.236	0.000	0.30		61.3
6.001		S8130 10	96.356	-0.254	0.000	0.39		93.6
6.002		S8158 10	96.249	-0.180	0.000	0.66		96.6
6.003		S8129 11	96.054	-0.266	0.000	0.35		116.5
7.000		S4004 11	95.884	-0.184	0.000	0.39		39.3
6.004		S4005 11	95.858	-0.111	0.000	0.57		179.7
6.005		S8122 14	95.772	0.178	0.000	1.23		175.5
8.000		S8166 17	95.678	0.125	0.000	0.26		22.8
6.006		S8123 18	95.669	0.159	0.000	1.12		214.0
6.007		S8125 25	95.518	0.154	0.000	0.93		232.3
6.008		S4020 26	95.404	0.204	0.000	0.69		237.9
6.009	S4021 - Headwall	26	95.378	0.258	0.000	1.99		232.7
1.014	S4022	26	95.333	0.138	0.000	2.06		555.8
1.015	S4023 - Control Chamber	45	94.942	0.142	0.000	0.12		7.1
PN	US/MH Name	Status						
6.000		S8143	OK					
6.001		S8130	OK					
6.002		S8158	OK					
6.003		S8129	OK					
7.000		S4004	OK					
6.004		S4005	OK					
6.005		S8122	SURCHARGED					
8.000		S8166	SURCHARGED					
6.006		S8123	SURCHARGED					
6.007		S8125	SURCHARGED					
6.008		S4020	SURCHARGED					
6.009	S4021 - Headwall		SURCHARGED					
1.014	S4022		SURCHARGED					
1.015	S4023 - Control Chamber		SURCHARGED					

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Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	15	100.026	-0.169	0.000	0.14		9.3	OK
1.001	S1003	15	99.363	-0.227	0.000	0.13		23.2	OK
1.002	S1004	15	98.872	-0.208	0.000	0.21		29.5	OK
2.000	S1005	15	98.853	-0.206	0.000	0.21		26.0	OK
1.003	S1006	15	98.456	-0.189	0.000	0.29		70.6	OK
3.000	S1007	15	96.628	-0.342	0.000	0.13		31.0	OK
3.001	S1008	15	96.435	-0.275	0.000	0.19		30.8	OK
1.004	S1009	15	96.401	-0.207	0.000	0.50		131.4	OK
4.000	S1010	15	98.068	-0.232	0.000	0.12		22.9	OK
4.001	S1011	15	97.047	-0.223	0.000	0.15		22.7	OK
1.005	S1012	15	96.345	-0.185	0.000	0.81		168.0	OK
5.000	S1013	15	96.715	-0.297	0.000	0.09		17.6	OK
1.006	S1014	15	96.112	-0.378	0.000	0.29		216.1	OK
1.007	S1015	28	95.623	-0.126	0.000	0.79		229.9	OK
1.008	S1016	29	95.579	0.174	0.000	0.90		270.1	SURCHARGED
1.009	S1017	30	95.514	-0.111	0.000	0.67		279.2	OK
1.010	S1019	30	95.420	0.005	0.000	1.02		281.2	SURCHARGED
1.011	S1020	30	95.380	0.005	0.000	0.83		288.4	SURCHARGED
1.012	S1021	30	95.323	0.031	0.000	0.62		287.2	SURCHARGED
1.013	S1022	30	95.282	0.087	0.000	2.07		287.8	SURCHARGED

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<u>Summary Wizard of 60 minute 30 year Winter I+0% for Surface Network 4</u>								
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143	15 96.837	-0.263	0.000	0.19		39.9
6.001		S8130	15 96.314	-0.296	0.000	0.25		60.9
6.002		S8158	15 96.188	-0.241	0.000	0.44		63.8
6.003		S8129	15 96.016	-0.304	0.000	0.23		77.3
7.000		S4004	17 95.823	-0.246	0.000	0.26		25.7
6.004		S4005	20 95.715	-0.254	0.000	0.39		124.3
6.005		S8122	30 95.503	-0.091	0.000	0.89		125.9
8.000		S8166	30 95.435	-0.118	0.000	0.18		15.7
6.006		S8123	30 95.427	-0.083	0.000	0.81		154.9
6.007		S8125	30 95.332	-0.033	0.000	0.69		171.2
6.008		S4020	31 95.255	0.055	0.000	0.52		180.1
6.009	S4021 - Headwall	34	95.234	0.114	0.000	1.53		178.2
1.014	S4022	36	95.199	0.004	0.000	1.70		458.3
1.015	S4023 - Control Chamber	43	95.027	0.227	0.000	0.12		7.1
PN	US/MH Name	Status						
6.000		S8143	OK					
6.001		S8130	OK					
6.002		S8158	OK					
6.003		S8129	OK					
7.000		S4004	OK					
6.004		S4005	OK					
6.005		S8122	OK					
8.000		S8166	OK					
6.006		S8123	OK					
6.007		S8125	OK					
6.008		S4020	SURCHARGED					
6.009	S4021 - Headwall	SURCHARGED						
1.014	S4022	SURCHARGED						
1.015	S4023 - Control Chamber	SURCHARGED						
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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	26	100.014	-0.181	0.000	0.09		5.7	OK
1.001	S1003	25	99.347	-0.243	0.000	0.08		14.2	OK
1.002	S1004	25	98.850	-0.230	0.000	0.13		18.1	OK
2.000	S1005	26	98.831	-0.228	0.000	0.13		16.0	OK
1.003	S1006	25	98.430	-0.215	0.000	0.18		43.4	OK
3.000	S1007	26	96.605	-0.365	0.000	0.08		19.2	OK
3.001	S1008	24	96.369	-0.341	0.000	0.12		19.1	OK
1.004	S1009	23	96.294	-0.314	0.000	0.31		81.5	OK
4.000	S1010	26	98.052	-0.248	0.000	0.07		14.1	OK
4.001	S1011	26	97.031	-0.239	0.000	0.09		14.1	OK
1.005	S1012	23	96.234	-0.296	0.000	0.51		104.9	OK
5.000	S1013	26	96.695	-0.317	0.000	0.06		10.8	OK
1.006	S1014	23	96.063	-0.427	0.000	0.18		135.3	OK
1.007	S1015	32	95.450	-0.299	0.000	0.50		145.5	OK
1.008	S1016	32	95.404	-0.001	0.000	0.57		171.0	OK
1.009	S1017	32	95.370	-0.255	0.000	0.43		179.7	OK
1.010	S1019	32	95.316	-0.099	0.000	0.65		177.5	OK
1.011	S1020	32	95.292	-0.083	0.000	0.52		181.9	OK
1.012	S1021	33	95.258	-0.034	0.000	0.39		180.2	OK
1.013	S1022	36	95.234	0.039	0.000	1.28		177.5	SURCHARGED

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Summary Wizard of 120 minute 30 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143 26	96.811	-0.289	0.000	0.12		24.7
6.001		S8130 25	96.278	-0.332	0.000	0.16		37.5
6.002		S8158 25	96.137	-0.292	0.000	0.27		39.2
6.003		S8129 25	95.983	-0.337	0.000	0.14		47.5
7.000		S4004 29	95.793	-0.276	0.000	0.16		15.9
6.004		S4005 33	95.668	-0.300	0.000	0.24		76.5
6.005		S8122 35	95.385	-0.209	0.000	0.55		78.9
8.000		S8166 32	95.315	-0.238	0.000	0.11		9.8
6.006		S8123 32	95.310	-0.200	0.000	0.52		98.7
6.007		S8125 32	95.261	-0.104	0.000	0.44		109.0
6.008		S4020 37	95.227	0.027	0.000	0.32		111.8
6.009	S4021 - Headwall	37	95.215	0.095	0.000	0.94		109.9
1.014		S4022 38	95.195	0.000	0.000	1.01		272.4
1.015	S4023 - Control Chamber	38	95.107	0.307	0.000	0.12		7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

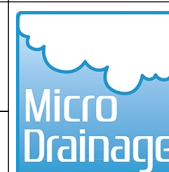
Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	31	100.007	-0.188	0.000	0.06	4.3	OK
1.001	S1003	31	99.338	-0.252	0.000	0.06	10.6	OK
1.002	S1004	31	98.842	-0.238	0.000	0.09	13.5	OK
2.000	S1005	31	98.822	-0.237	0.000	0.10	11.9	OK
1.003	S1006	31	98.418	-0.227	0.000	0.13	32.3	OK
3.000	S1007	31	96.591	-0.379	0.000	0.06	14.3	OK
3.001	S1008	31	96.350	-0.360	0.000	0.09	14.3	OK
1.004	S1009	31	96.248	-0.360	0.000	0.23	60.8	OK
4.000	S1010	31	98.044	-0.256	0.000	0.05	10.5	OK
4.001	S1011	31	97.021	-0.249	0.000	0.07	10.5	OK
1.005	S1012	31	96.186	-0.344	0.000	0.38	78.4	OK
5.000	S1013	31	96.687	-0.325	0.000	0.04	8.1	OK
1.006	S1014	31	96.037	-0.453	0.000	0.14	100.9	OK
1.007	S1015	40	95.362	-0.387	0.000	0.38	109.6	OK
1.008	S1016	37	95.292	-0.113	0.000	0.44	131.0	OK
1.009	S1017	36	95.265	-0.360	0.000	0.33	136.5	OK
1.010	S1019	42	95.176	-0.239	0.000	0.49	135.6	OK
1.011	S1020	47	95.157	-0.218	0.000	0.40	139.5	OK
1.012	S1021	46	95.154	-0.138	0.000	0.30	138.9	OK
1.013	S1022	46	95.152	-0.043	0.000	1.00	138.7	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143	31	96.800	-0.300	0.000	0.09	18.4
6.001		S8130	31	96.262	-0.348	0.000	0.12	28.0
6.002		S8158	31	96.116	-0.314	0.000	0.20	29.2
6.003		S8129	31	95.967	-0.353	0.000	0.11	35.4
7.000		S4004	35	95.779	-0.289	0.000	0.12	11.9
6.004		S4005	40	95.647	-0.321	0.000	0.18	57.0
6.005		S8122	40	95.347	-0.247	0.000	0.41	58.9
8.000		S8166	40	95.271	-0.283	0.000	0.08	7.3
6.006		S8123	42	95.254	-0.256	0.000	0.39	73.9
6.007		S8125	45	95.153	-0.211	0.000	0.33	82.4
6.008		S4020	45	95.151	-0.049	0.000	0.25	85.6
6.009	S4021 - Headwall	45	95.150	0.030	0.000	0.73		85.5
1.014		S4022	45	95.150	-0.045	0.000	0.83	223.0
1.015	S4023 - Control Chamber	35	95.149	0.349	0.000	0.12		7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

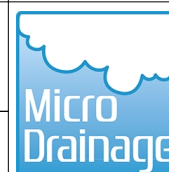
Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	36	100.003	-0.192	0.000	0.05		3.4	OK
1.001	S1003	36	99.332	-0.258	0.000	0.05		8.5	OK
1.002	S1004	36	98.834	-0.246	0.000	0.08		10.8	OK
2.000	S1005	36	98.814	-0.245	0.000	0.08		9.6	OK
1.003	S1006	36	98.410	-0.235	0.000	0.11		26.0	OK
3.000	S1007	36	96.583	-0.387	0.000	0.05		11.5	OK
3.001	S1008	36	96.339	-0.371	0.000	0.07		11.5	OK
1.004	S1009	36	96.219	-0.389	0.000	0.19		48.9	OK
4.000	S1010	36	98.039	-0.261	0.000	0.04		8.4	OK
4.001	S1011	36	97.015	-0.255	0.000	0.05		8.4	OK
1.005	S1012	36	96.156	-0.374	0.000	0.31		63.1	OK
5.000	S1013	36	96.682	-0.330	0.000	0.04		6.5	OK
1.006	S1014	36	96.022	-0.468	0.000	0.11		81.3	OK
1.007	S1015	42	95.327	-0.422	0.000	0.30		88.3	OK
1.008	S1016	46	95.244	-0.161	0.000	0.35		105.8	OK
1.009	S1017	47	95.218	-0.407	0.000	0.27		110.6	OK
1.010	S1019	41	95.187	-0.228	0.000	0.40		111.1	OK
1.011	S1020	40	95.185	-0.190	0.000	0.33		114.5	OK
1.012	S1021	40	95.182	-0.110	0.000	0.25		114.3	OK
1.013	S1022	40	95.181	-0.014	0.000	0.82		114.4	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow (1/s)			Flow (1/s)
6.000		S8143	36	96.790	-0.310	0.000	0.07		14.8
6.001		S8130	36	96.252	-0.358	0.000	0.09		22.5
6.002		S8158	36	96.099	-0.330	0.000	0.16		23.5
6.003		S8129	36	95.958	-0.362	0.000	0.09		28.5
7.000		S4004	40	95.771	-0.298	0.000	0.10		9.5
6.004		S4005	42	95.632	-0.336	0.000	0.15		45.9
6.005		S8122	42	95.324	-0.270	0.000	0.33		47.4
8.000		S8166	43	95.255	-0.298	0.000	0.07		5.9
6.006		S8123	47	95.232	-0.278	0.000	0.31		59.4
6.007		S8125	39	95.180	-0.185	0.000	0.27		66.4
6.008		S4020	39	95.177	-0.023	0.000	0.20		69.7
6.009	S4021 - Headwall	39	95.177		0.057	0.000	0.60		69.6
1.014		S4022	39	95.176	-0.019	0.000	0.67		182.0
1.015	S4023 - Control Chamber	28	95.175		0.375	0.000	0.12		7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	OK
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	OK
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 360 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

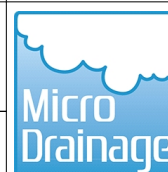
Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	43	99.998	-0.197	0.000	0.04	2.5	OK
1.001	S1003	43	99.326	-0.264	0.000	0.04	6.2	OK
1.002	S1004	43	98.825	-0.255	0.000	0.06	7.9	OK
2.000	S1005	43	98.805	-0.254	0.000	0.06	7.0	OK
1.003	S1006	43	98.400	-0.245	0.000	0.08	18.9	OK
3.000	S1007	43	96.574	-0.396	0.000	0.04	8.4	OK
3.001	S1008	43	96.326	-0.384	0.000	0.05	8.4	OK
1.004	S1009	43	96.186	-0.422	0.000	0.14	35.7	OK
4.000	S1010	43	98.034	-0.266	0.000	0.03	6.1	OK
4.001	S1011	43	97.008	-0.262	0.000	0.04	6.1	OK
1.005	S1012	43	96.121	-0.409	0.000	0.22	46.0	OK
5.000	S1013	43	96.677	-0.335	0.000	0.03	4.7	OK
1.006	S1014	43	96.003	-0.487	0.000	0.08	59.4	OK
1.007	S1015	46	95.288	-0.461	0.000	0.22	64.5	OK
1.008	S1016	49	95.221	-0.184	0.000	0.26	77.4	OK
1.009	S1017	46	95.219	-0.406	0.000	0.19	81.0	OK
1.010	S1019	39	95.217	-0.198	0.000	0.29	80.3	OK
1.011	S1020	39	95.216	-0.159	0.000	0.24	82.6	OK
1.012	S1021	39	95.214	-0.078	0.000	0.17	81.0	OK
1.013	S1022	38	95.214	0.019	0.000	0.58	80.5	SURCHARGED

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PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
				Depth (m)	Volume (m³)			
6.000	S4021 - Headwall	S8143	43	96.780	-0.320	0.000	0.05	10.8
6.001		S8130	43	96.237	-0.373	0.000	0.07	16.4
6.002		S8158	43	96.081	-0.348	0.000	0.12	17.2
6.003		S8129	43	95.942	-0.378	0.000	0.06	20.8
7.000		S4004	45	95.758	-0.311	0.000	0.07	6.9
6.004		S4005	46	95.616	-0.353	0.000	0.11	33.5
6.005		S8122	46	95.296	-0.298	0.000	0.24	34.6
8.000		S8166	50	95.237	-0.317	0.000	0.05	4.3
6.006		S8123	50	95.215	-0.295	0.000	0.23	43.4
6.007		S8125	38	95.214	-0.151	0.000	0.19	48.6
6.008	S4020	38	95.212	0.012	0.000	0.14	49.7	
6.009	S4023 - Control Chamber	S4022	38	95.212	0.092	0.000	0.42	49.4
1.014		S4022	35	95.212	0.017	0.000	0.47	127.1
1.015		S4022	27	95.211	0.411	0.000	0.12	7.1

PN	US/MH	Status
	Name	
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

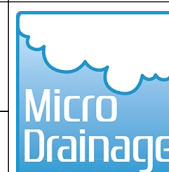
Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	50	99.995	-0.200	0.000	0.03	2.0	OK
1.001	S1003	50	99.323	-0.267	0.000	0.03	4.9	OK
1.002	S1004	50	98.820	-0.260	0.000	0.04	6.3	OK
2.000	S1005	50	98.800	-0.259	0.000	0.05	5.6	OK
1.003	S1006	50	98.393	-0.252	0.000	0.06	15.1	OK
3.000	S1007	50	96.570	-0.400	0.000	0.03	6.7	OK
3.001	S1008	50	96.319	-0.391	0.000	0.04	6.7	OK
1.004	S1009	50	96.164	-0.444	0.000	0.11	28.5	OK
4.000	S1010	50	98.032	-0.268	0.000	0.02	4.9	OK
4.001	S1011	50	97.005	-0.265	0.000	0.03	4.9	OK
1.005	S1012	50	96.100	-0.430	0.000	0.18	36.8	OK
5.000	S1013	50	96.673	-0.339	0.000	0.02	3.8	OK
1.006	S1014	50	95.988	-0.502	0.000	0.06	47.4	OK
1.007	S1015	51	95.264	-0.485	0.000	0.18	51.6	OK
1.008	S1016	48	95.238	-0.167	0.000	0.21	61.9	OK
1.009	S1017	44	95.237	-0.388	0.000	0.16	64.7	OK
1.010	S1019	38	95.235	-0.180	0.000	0.23	64.2	OK
1.011	S1020	38	95.234	-0.141	0.000	0.19	66.1	OK
1.012	S1021	37	95.233	-0.059	0.000	0.14	64.7	OK
1.013	S1022	37	95.232	0.037	0.000	0.46	64.0	SURCHARGED

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Summary Wizard of 480 minute 30 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water		Surcharged	Flooded	Flow / Cap.	Overflow (1/s)	Pipe
			Level (m)	Depth (m)	Volume (m³)	Flow			Flow (1/s)
6.000		S8143	50	96.774	-0.326	0.000	0.04		8.6
6.001		S8130	50	96.227	-0.383	0.000	0.05		13.1
6.002		S8158	50	96.071	-0.358	0.000	0.09		13.7
6.003		S8129	50	95.934	-0.386	0.000	0.05		16.6
7.000		S4004	51	95.750	-0.318	0.000	0.06		5.5
6.004		S4005	51	95.606	-0.363	0.000	0.08		26.7
6.005		S8122	51	95.280	-0.314	0.000	0.19		27.6
8.000		S8166	53	95.234	-0.319	0.000	0.04		3.4
6.006		S8123	46	95.234	-0.276	0.000	0.18		34.7
6.007		S8125	37	95.232	-0.132	0.000	0.16		38.8
6.008		S4020	36	95.231	0.031	0.000	0.11		39.6
6.009	S4021 - Headwall	35	95.231		0.111	0.000	0.34		39.2
1.014		S4022	34	95.230	0.035	0.000	0.37		101.1
1.015	S4023 - Control Chamber	26	95.230		0.430	0.000	0.12		7.1

PN	US/MH	
	Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 600 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 Cv (Winter) 0.840

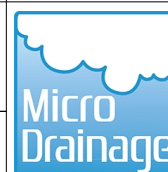
Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

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. (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	53	99.994	-0.201	0.000	0.03	1.7	OK
1.001	S1003	53	99.321	-0.269	0.000	0.02	4.2	OK
1.002	S1004	53	98.817	-0.263	0.000	0.04	5.3	OK
2.000	S1005	53	98.797	-0.262	0.000	0.04	4.7	OK
1.003	S1006	53	98.389	-0.256	0.000	0.05	12.7	OK
3.000	S1007	53	96.567	-0.403	0.000	0.02	5.6	OK
3.001	S1008	53	96.314	-0.396	0.000	0.04	5.6	OK
1.004	S1009	53	96.150	-0.458	0.000	0.09	23.9	OK
4.000	S1010	53	98.029	-0.271	0.000	0.02	4.1	OK
4.001	S1011	53	97.002	-0.268	0.000	0.03	4.1	OK
1.005	S1012	53	96.084	-0.446	0.000	0.15	30.9	OK
5.000	S1013	53	96.667	-0.345	0.000	0.02	3.2	OK
1.006	S1014	53	95.979	-0.511	0.000	0.05	39.8	OK
1.007	S1015	57	95.252	-0.497	0.000	0.15	43.3	OK
1.008	S1016	44	95.251	-0.154	0.000	0.17	51.9	OK
1.009	S1017	43	95.249	-0.376	0.000	0.13	54.4	OK
1.010	S1019	37	95.249	-0.166	0.000	0.20	53.8	OK
1.011	S1020	37	95.248	-0.127	0.000	0.16	55.4	OK
1.012	S1021	36	95.247	-0.045	0.000	0.12	54.2	OK
1.013	S1022	34	95.246	0.051	0.000	0.39	53.6	SURCHARGED

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PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143	53	96.770	-0.330	0.000	0.03	7.2
6.001		S8130	53	96.222	-0.388	0.000	0.05	11.0
6.002		S8158	53	96.063	-0.367	0.000	0.08	11.5
6.003		S8129	53	95.929	-0.391	0.000	0.04	13.9
7.000		S4004	54	95.745	-0.323	0.000	0.05	4.7
6.004		S4005	54	95.597	-0.372	0.000	0.07	22.5
6.005		S8122	54	95.267	-0.327	0.000	0.16	23.2
8.000		S8166	48	95.248	-0.306	0.000	0.03	2.9
6.006		S8123	44	95.248	-0.262	0.000	0.15	29.1
6.007		S8125	36	95.247	-0.118	0.000	0.13	32.5
6.008		S4020	34	95.245	0.045	0.000	0.10	33.2
6.009	S4021 - Headwall	33	95.245	0.125	0.000	0.30		35.0
1.014		S4022	33	95.245	0.050	0.000	0.31	84.8
1.015	S4023 - Control Chamber	24	95.245	0.445	0.000	0.12		7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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 / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	58	99.993	-0.202	0.000	0.02	1.5	OK
1.001	S1003	58	99.319	-0.271	0.000	0.02	3.6	OK
1.002	S1004	58	98.815	-0.265	0.000	0.03	4.6	OK
2.000	S1005	58	98.794	-0.265	0.000	0.03	4.1	OK
1.003	S1006	58	98.386	-0.259	0.000	0.05	11.0	OK
3.000	S1007	58	96.564	-0.406	0.000	0.02	4.9	OK
3.001	S1008	58	96.311	-0.399	0.000	0.03	4.9	OK
1.004	S1009	58	96.140	-0.468	0.000	0.08	20.8	OK
4.000	S1010	58	98.026	-0.274	0.000	0.02	3.6	OK
4.001	S1011	58	97.001	-0.269	0.000	0.02	3.6	OK
1.005	S1012	58	96.073	-0.457	0.000	0.13	26.8	OK
5.000	S1013	58	96.663	-0.349	0.000	0.01	2.8	OK
1.006	S1014	58	95.973	-0.517	0.000	0.05	34.5	OK
1.007	S1015	54	95.257	-0.492	0.000	0.13	37.5	OK
1.008	S1016	42	95.256	-0.149	0.000	0.15	45.0	OK
1.009	S1017	41	95.255	-0.370	0.000	0.11	47.1	OK
1.010	S1019	35	95.255	-0.160	0.000	0.17	46.5	OK
1.011	S1020	35	95.255	-0.120	0.000	0.14	47.8	OK
1.012	S1021	34	95.254	-0.038	0.000	0.10	46.8	OK
1.013	S1022	32	95.253	0.058	0.000	0.33	46.3	SURCHARGED

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Summary Wizard of 720 minute 30 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143	58	96.768	-0.332	0.000	0.03	6.3
6.001		S8130	58	96.217	-0.393	0.000	0.04	9.5
6.002		S8158	58	96.056	-0.374	0.000	0.07	10.0
6.003		S8129	58	95.925	-0.395	0.000	0.04	12.1
7.000		S4004	58	95.742	-0.327	0.000	0.04	4.0
6.004		S4005	58	95.591	-0.378	0.000	0.06	19.5
6.005		S8122	59	95.258	-0.336	0.000	0.14	20.1
8.000		S8166	45	95.254	-0.299	0.000	0.03	2.5
6.006		S8123	41	95.254	-0.256	0.000	0.13	25.2
6.007		S8125	34	95.253	-0.111	0.000	0.11	28.2
6.008		S4020	32	95.253	0.053	0.000	0.08	28.7
6.009	S4021 - Headwall	32	95.253	0.133	0.000	0.24		28.5
1.014		S4022	30	95.253	0.058	0.000	0.27	73.3
1.015	S4023 - Control Chamber	22	95.252	0.452	0.000	0.12		7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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 / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	60	99.988	-0.207	0.000	0.02	1.2	OK
1.001	S1003	60	99.313	-0.277	0.000	0.02	2.9	OK
1.002	S1004	60	98.812	-0.268	0.000	0.03	3.7	OK
2.000	S1005	60	98.791	-0.268	0.000	0.03	3.2	OK
1.003	S1006	60	98.382	-0.263	0.000	0.04	8.8	OK
3.000	S1007	60	96.555	-0.415	0.000	0.02	3.9	OK
3.001	S1008	60	96.307	-0.403	0.000	0.02	3.9	OK
1.004	S1009	60	96.127	-0.481	0.000	0.06	16.6	OK
4.000	S1010	60	98.020	-0.280	0.000	0.01	2.8	OK
4.001	S1011	60	96.996	-0.274	0.000	0.02	2.8	OK
1.005	S1012	60	96.058	-0.472	0.000	0.10	21.3	OK
5.000	S1013	60	96.658	-0.354	0.000	0.01	2.2	OK
1.006	S1014	60	95.964	-0.526	0.000	0.04	27.5	OK
1.007	S1015	52	95.263	-0.486	0.000	0.10	29.9	OK
1.008	S1016	40	95.262	-0.143	0.000	0.12	35.9	OK
1.009	S1017	38	95.261	-0.364	0.000	0.09	37.6	OK
1.010	S1019	34	95.261	-0.154	0.000	0.13	37.0	OK
1.011	S1020	33	95.260	-0.115	0.000	0.11	38.0	OK
1.012	S1021	32	95.260	-0.032	0.000	0.08	37.1	OK
1.013	S1022	31	95.260	0.065	0.000	0.26	36.7	SURCHARGED

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Summary Wizard of 960 minute 30 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143	60	96.764	-0.336	0.000	0.02	5.0
6.001		S8130	60	96.212	-0.398	0.000	0.03	7.6
6.002		S8158	60	96.047	-0.383	0.000	0.05	8.0
6.003		S8129	60	95.920	-0.400	0.000	0.03	9.6
7.000		S4004	60	95.737	-0.331	0.000	0.03	3.2
6.004		S4005	60	95.582	-0.386	0.000	0.05	15.5
6.005		S8122	56	95.261	-0.333	0.000	0.11	16.0
8.000		S8166	42	95.260	-0.294	0.000	0.02	2.0
6.006		S8123	39	95.260	-0.250	0.000	0.11	20.1
6.007		S8125	33	95.259	-0.105	0.000	0.09	22.5
6.008		S4020	30	95.259	0.059	0.000	0.07	22.9
6.009	S4021 - Headwall	30	95.259	0.139	0.000	0.19		22.7
1.014	S4022	29	95.259	0.064	0.000	0.22		58.3
1.015	S4023 - Control Chamber	21	95.258	0.458	0.000	0.12		7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 4

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 Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.400 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 / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.000	S1002	66	99.983	-0.212	0.000	0.01	0.8	OK
1.001	S1003	66	99.307	-0.283	0.000	0.01	2.1	OK
1.002	S1004	66	98.806	-0.274	0.000	0.02	2.7	OK
2.000	S1005	66	98.786	-0.273	0.000	0.02	2.3	OK
1.003	S1006	66	98.377	-0.268	0.000	0.03	6.4	OK
3.000	S1007	66	96.545	-0.425	0.000	0.01	2.8	OK
3.001	S1008	66	96.297	-0.413	0.000	0.02	2.8	OK
1.004	S1009	66	96.106	-0.502	0.000	0.05	12.0	OK
4.000	S1010	66	98.015	-0.285	0.000	0.01	2.1	OK
4.001	S1011	66	96.989	-0.281	0.000	0.01	2.1	OK
1.005	S1012	66	96.038	-0.492	0.000	0.08	15.5	OK
5.000	S1013	66	96.652	-0.360	0.000	0.01	1.6	OK
1.006	S1014	66	95.955	-0.535	0.000	0.03	20.0	OK
1.007	S1015	56	95.253	-0.496	0.000	0.07	21.7	OK
1.008	S1016	43	95.252	-0.153	0.000	0.09	26.1	OK
1.009	S1017	42	95.251	-0.374	0.000	0.07	27.3	OK
1.010	S1019	36	95.251	-0.164	0.000	0.10	26.7	OK
1.011	S1020	36	95.251	-0.124	0.000	0.08	27.5	OK
1.012	S1021	35	95.251	-0.041	0.000	0.06	26.8	OK
1.013	S1022	33	95.250	0.055	0.000	0.19	26.5	SURCHARGED

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Summary Wizard of 1440 minute 30 year Winter I+0% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)
6.000		S8143	66	96.756	-0.344	0.000	0.02	3.6
6.001		S8130	66	96.206	-0.404	0.000	0.02	5.5
6.002		S8158	66	96.037	-0.393	0.000	0.04	5.8
6.003		S8129	66	95.915	-0.405	0.000	0.02	7.0
7.000		S4004	66	95.732	-0.336	0.000	0.02	2.3
6.004		S4005	66	95.573	-0.395	0.000	0.04	11.3
6.005		S8122	60	95.252	-0.342	0.000	0.08	11.6
8.000		S8166	46	95.252	-0.302	0.000	0.02	1.4
6.006		S8123	43	95.251	-0.259	0.000	0.08	14.6
6.007		S8125	35	95.250	-0.114	0.000	0.07	16.3
6.008		S4020	33	95.250	0.050	0.000	0.05	16.7
6.009	S4021 - Headwall	31	95.254	0.134	0.000	0.14		16.5
1.014	S4022	31	95.250	0.055	0.000	0.16		42.3
1.015	S4023 - Control Chamber	23	95.249	0.449	0.000	0.12		7.1

PN	US/MH Name	Status
6.000	S8143	OK
6.001	S8130	OK
6.002	S8158	OK
6.003	S8129	OK
7.000	S4004	OK
6.004	S4005	OK
6.005	S8122	OK
8.000	S8166	OK
6.006	S8123	OK
6.007	S8125	OK
6.008	S4020	SURCHARGED
6.009	S4021 - Headwall	SURCHARGED
1.014	S4022	SURCHARGED
1.015	S4023 - Control Chamber	SURCHARGED