

JS Bloor (Wilmslow) Ltd		Page 1
Dean Court 85 Adllington Road Wilmslow SK9 1BT		
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Elstree Computing Ltd		Network 2020.1.3

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	384.9	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	211.9	0.114	0.00	0.0	0.600	o	600	Pipe/Conduit	
6.007	48.896	0.164	298.1	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)	E I.Area (ha)	E 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	370.1	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	7.27	95.060	0.971	0.0	0.0	0.0	1.67	471.9	131.5
6.007	50.00	7.90	94.839	1.087	0.0	0.0	0.0	1.29	279.7	147.2
6.008	50.00	7.95	94.600	1.150	0.0	0.0	0.0	2.38	673.2	155.8
6.009	50.00	9.65	94.520	1.150	0.0	0.0	0.0	0.23	66.4«	155.8
1.014	44.34	12.09	94.520	3.032	0.0	0.0	0.0	1.50	538.1	364.1
1.015	43.91	12.30	94.500	3.032	0.0	0.0	0.0	0.99	70.1«	364.1

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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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-0114-7100-1700-7100
Design Head (m)	1.700
Design Flow (l/s)	7.1
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	114
Invert Level (m)	94.500
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.700	7.1
Flush-Flo™	0.500	7.0
Kick-Flo®	1.022	5.6
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	4.0	1.200	6.0	3.000	9.3	7.000	13.9
0.200	6.2	1.400	6.5	3.500	10.0	7.500	14.3
0.300	6.7	1.600	6.9	4.000	10.6	8.000	14.8
0.400	7.0	1.800	7.3	4.500	11.2	8.500	15.2
0.500	7.0	2.000	7.7	5.000	11.8	9.000	15.6
0.600	7.0	2.200	8.0	5.500	12.4	9.500	16.0
0.800	6.7	2.400	8.3	6.000	12.9		
1.000	5.8	2.600	8.7	6.500	13.4		

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<u>Storage Structures for Surface Network 4</u> <u>Tank or Pond Manhole: S8129, DS/PN: 6.003</u> Invert Level (m) 95.870 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>0.0</td><td>0.500</td><td>50.0</td></tr></table> <u>Tank or Pond Manhole: S4023 - Control Chamber, DS/PN: 1.015</u> Invert Level (m) 94.500 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>1123.6</td><td>0.500</td><td>1473.6</td><td>1.000</td><td>1851.2</td><td>1.500</td><td>2254.9</td></tr><tr><td>0.100</td><td>1190.4</td><td>0.600</td><td>1547.0</td><td>1.100</td><td>1929.8</td><td>1.600</td><td>2338.8</td></tr><tr><td>0.200</td><td>1259.7</td><td>0.700</td><td>1621.5</td><td>1.200</td><td>2009.5</td><td>1.700</td><td>2423.7</td></tr><tr><td>0.300</td><td>1329.9</td><td>0.800</td><td>1697.0</td><td>1.300</td><td>2090.3</td><td>1.701</td><td>2423.7</td></tr><tr><td>0.400</td><td>1401.3</td><td>0.900</td><td>1773.6</td><td>1.400</td><td>2172.0</td><td></td><td></td></tr></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	0.0	0.500	50.0	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	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		
Depth (m)	Area (m²)	Depth (m)	Area (m²)																																																							
0.000	0.0	0.500	50.0																																																							
Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)																																																			
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																																																			
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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 Coeffiecient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
Number of Online Controls 1 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
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)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)	
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	41	95.256	-0.369	0.000	0.39		163.6		OK
1.010	S1019	52	95.147	-0.268	0.000	0.52		141.7		OK
1.011	S1020	52	95.116	-0.259	0.000	0.39		137.7		OK
1.012	S1021	52	95.077	-0.215	0.000	0.28		132.6		OK
1.013	S1022	52	95.058	-0.137	0.000	0.95		131.2		OK
6.000	S8143	20	96.821	-0.279	0.000	0.15		30.5		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 Coeffiecient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)	
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	40	95.256	-0.369	0.000	0.38		158.5		OK
1.010	S1019	50	95.152	-0.263	0.000	0.51		139.7		OK
1.011	S1020	51	95.122	-0.253	0.000	0.39		137.8		OK
1.012	S1021	51	95.082	-0.210	0.000	0.29		133.9		OK
1.013	S1022	51	95.063	-0.132	0.000	0.96		133.1		OK
6.000	S8143	21	96.815	-0.285	0.000	0.13		27.6		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 Coeffiecient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)	
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		131.0		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		120.5		OK
1.011	S1020	53	95.089	-0.286	0.000	0.35		121.9		OK
1.012	S1021	53	95.049	-0.243	0.000	0.26		119.0		OK
1.013	S1022	53	95.031	-0.164	0.000	0.86		119.8		OK
6.000	S8143	28	96.804	-0.296	0.000	0.10		19.9		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 Coeffiecient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)	
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	95.059	-0.356	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	94.965	-0.230	0.000	0.67		92.4	OK	
6.000	S8143	38	96.786	-0.314	0.000	0.06		13.3	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 Coeffiecient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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 / Overflow Cap.	Half Drain Time (mins)	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	94.984	-0.391	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
6.000	S8143	44	96.779	-0.321	0.000	0.05		10.6	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 Coeffiecient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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 / Overflow Cap.	Half Drain Time (mins)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
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	51	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	94.905	-0.387	0.000	0.14		64.7	OK
1.013	S1022	58	94.895	-0.300	0.000	0.47		64.6	OK
6.000	S8143	48	96.774	-0.326	0.000	0.04		8.7	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 Coeffiecient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain Time (mins)	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		48.7	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
6.000	S8143	55	96.768	-0.332	0.000	0.03		6.5	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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 / Overflow Cap.	Half Drain Time (mins)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
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	71	94.812	-0.383	0.000	0.25		34.8	OK
6.000	S8143	63	96.763	-0.337	0.000	0.02		4.5	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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 / Overflow Cap.	Half Drain Time (mins)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
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	94.865	-0.510	0.000	0.09		30.5	OK
1.012	S1021	70	94.813	-0.479	0.000	0.07		30.3	OK
1.013	S1022	69	94.814	-0.381	0.000	0.22		29.9	OK
6.000	S8143	65	96.758	-0.342	0.000	0.02		3.9	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain Time (mins)	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	52	95.178	-0.447	0.000	0.21		86.8	OK
1.010	S1019	48	95.165	-0.250	0.000	0.31		85.9	OK
1.011	S1020	45	95.164	-0.211	0.000	0.25		88.0	OK
1.012	S1021	45	95.163	-0.129	0.000	0.18		86.1	OK
1.013	S1022	45	95.162	-0.033	0.000	0.62		85.7	OK
6.000	S8143	41	96.782	-0.318	0.000	0.06		11.6	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain Time (mins)	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	95.188	-0.217	0.000	0.23		69.8	OK
1.009	S1017	54	95.172	-0.453	0.000	0.18		73.1	OK
1.010	S1019	46	95.171	-0.244	0.000	0.26		72.7	OK
1.011	S1020	43	95.170	-0.205	0.000	0.21		74.8	OK
1.012	S1021	42	95.178	-0.114	0.000	0.16		73.4	OK
1.013	S1022	40	95.195	0.000	0.000	0.52		72.5	OK
6.000	S8143	46	96.777	-0.323	0.000	0.05		9.7	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain Time (mins)	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	95.180	-0.225	0.000	0.16		48.2	OK
1.009	S1017	51	95.180	-0.445	0.000	0.12		50.5	OK
1.010	S1019	42	95.179	-0.236	0.000	0.18		50.1	OK
1.011	S1020	41	95.180	-0.195	0.000	0.15		51.6	OK
1.012	S1021	41	95.178	-0.114	0.000	0.11		50.5	OK
1.013	S1022	42	95.178	-0.017	0.000	0.36		50.0	OK
6.000	S8143	54	96.769	-0.331	0.000	0.03		6.7	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain Time (mins)	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	58	95.165	-0.240	0.000	0.12		35.0	OK
1.009	S1017	55	95.164	-0.461	0.000	0.09		36.7	OK
1.010	S1019	49	95.165	-0.250	0.000	0.13		36.3	OK
1.011	S1020	44	95.165	-0.210	0.000	0.11		37.3	OK
1.012	S1021	44	95.164	-0.128	0.000	0.08		36.5	OK
1.013	S1022	44	95.163	-0.032	0.000	0.26		36.2	OK
6.000	S8143	61	96.764	-0.336	0.000	0.02		4.9	OK

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Summary Wizard of 15 minute 100 year Summer I+40% for Surface Network 4								
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
6.001	S8130	3	96.832	0.222	0.000	0.85		
6.002	S8158	3	96.779	0.350	0.000	1.35		
6.003	S8129	3	96.678	0.358	0.000	0.54		
7.000	S4004	3	96.668	0.600	0.000	0.80		
6.004	S4005	4	96.621	0.652	0.000	0.78		
6.005	S8122	4	96.419	0.825	0.000	1.73		
8.000	S8166	4	96.229	0.675	0.000	0.53		
6.006	S8123	4	96.204	0.544	0.000	0.89		
6.007	S8125	4	96.102	0.738	0.000	1.53		
6.008	S4020	7	95.790	0.590	0.000	1.15		
6.009	S4021 - Headwall	9	95.729	0.609	0.000	3.37		
1.014	S4022	14	95.644	0.449	0.000	3.32		
1.015	S4023 - Control Chamber	42	95.037	0.237	0.000	0.12		
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Summary Wizard of 30 minute 100 year Summer I+40% 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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S1002	3	100.073	-0.122	0.000	0.43		28.9	OK
1.001	S1003	3	99.427	-0.163	0.000	0.42		72.9	OK
1.002	S1004	3	98.960	-0.120	0.000	0.65		93.3	OK
2.000	S1005	3	98.973	-0.086	0.000	0.66		80.5	OK
1.003	S1006	4	98.839	0.194	0.000	0.90		217.0	SURCHARGED
3.000	S1007	3	98.031	1.061	0.000	0.37		87.2	SURCHARGED
3.001	S1008	3	97.997	1.287	0.000	0.43		68.4	SURCHARGED
1.004	S1009	3	97.966	1.358	0.000	1.36		353.7	SURCHARGED
4.000	S1010	3	98.123	-0.177	0.000	0.36		70.9	OK
4.001	S1011	3	97.949	0.679	0.000	0.44		68.5	SURCHARGED
1.005	S1012	3	97.872	1.342	0.000	2.09		431.4	SURCHARGED
5.000	S1013	3	97.774	0.762	0.000	0.28		51.5	FLOOD RISK
1.006	S1014	3	97.737	1.247	0.000	0.70		519.0	SURCHARGED
1.007	S1015	3	97.435	1.686	0.794	1.88		548.0	FLOOD
1.008	S1016	3	97.305	1.900	0.000	2.03		610.6	SURCHARGED
1.009	S1017	3	97.050	1.425	0.000	1.41		588.9	SURCHARGED
1.010	S1019	3	96.668	1.253	0.000	2.13		585.6	SURCHARGED
1.011	S1020	3	96.466	1.091	0.000	1.70		593.4	SURCHARGED

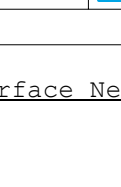
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Summary Wizard of 30 minute 100 year Summer I+40% for Surface Network 4								
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.012		S1021	3 96.230	0.938	0.000	1.27		
1.013		S1022	3 96.011	0.816	0.000	4.24		
6.000		S8143	3 96.934	-0.166	0.000	0.60		
6.001		S8130	4 96.808	0.198	0.000	0.74		
6.002		S8158	4 96.762	0.332	0.000	1.22		
6.003		S8129	4 96.674	0.354	0.000	0.52		
7.000		S4004	4 96.666	0.598	0.000	0.73		
6.004		S4005	3 96.626	0.657	0.000	0.74		
6.005		S8122	3 96.436	0.842	0.000	1.68		
8.000		S8166	3 96.231	0.678	0.000	0.51		
6.006		S8123	3 96.214	0.554	0.000	0.82		
6.007		S8125	3 96.130	0.766	0.000	1.42		
6.008		S4020	4 95.848	0.648	0.000	1.09		
6.009	S4021 - Headwall	8	95.746	0.626	0.000	3.19		
1.014		S4022	13 95.659	0.464	0.000	3.37		
1.015	S4023 - Control Chamber	31	95.169	0.369	0.000	0.12		
	PN	US/MH Name		Pipe Flow (l/s)	Status			
	1.012			S1021 591.2	SURCHARGED			
	1.013			S1022 588.5	FLOOD RISK			
	6.000			S8143 124.1	OK			
	6.001			S8130 177.7	SURCHARGED			
	6.002			S8158 178.7	SURCHARGED			
	6.003			S8129 174.5	SURCHARGED			
	7.000			S4004 72.9	SURCHARGED			
	6.004			S4005 232.8	SURCHARGED			
	6.005			S8122 239.1	SURCHARGED			
	8.000			S8166 44.3	SURCHARGED			
	6.006			S8123 312.7	SURCHARGED			
	6.007			S8125 353.5	SURCHARGED			
	6.008			S4020 380.1	SURCHARGED			
	6.009	S4021 - Headwall		372.0	FLOOD RISK			
	1.014			S4022 910.2	SURCHARGED			
	1.015	S4023 - Control Chamber		7.0	SURCHARGED			
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Summary Wizard of 240 minute 100 year Summer I+40% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
6.001		S8130 16	96.306	-0.304	0.000	0.23	
6.002		S8158 16	96.175	-0.254	0.000	0.39	
6.003		S8129 16	96.009	-0.311	0.000	0.21	
7.000		S4004 18	95.816	-0.253	0.000	0.23	
6.004		S4005 24	95.704	-0.265	0.000	0.36	
6.005		S8122 29	95.550	-0.044	0.000	0.81	
8.000		S8166 26	95.546	-0.008	0.000	0.17	
6.006		S8123 24	95.545	-0.115	0.000	0.38	
6.007		S8125 23	95.542	0.178	0.000	0.65	
6.008		S4020 21	95.538	0.338	0.000	0.49	
6.009	S4021 - Headwall	21	95.537	0.417	0.000	1.46	
1.014	S4022	20	95.536	0.341	0.000	1.66	
1.015	S4023 - Control Chamber	15	95.536	0.736	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
6.001		S8130 55.2	OK
6.002		S8158 57.5	OK
6.003		S8129 69.7	OK
7.000		S4004 23.3	OK
6.004		S4005 112.3	OK
6.005		S8122 115.3	OK
8.000		S8166 14.4	OK
6.006		S8123 146.2	OK
6.007		S8125 162.0	SURCHARGED
6.008		S4020 171.3	SURCHARGED
6.009	S4021 - Headwall	170.5	SURCHARGED
1.014	S4022	447.8	SURCHARGED
1.015	S4023 - Control Chamber	7.0	SURCHARGED

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Summary Wizard of 720 minute 100 year Summer I+40% 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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
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 / Overflow Cap.	Half Drain Time (mins)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
1.000	S1002	35	100.003	-0.192	0.000	0.05		3.5	OK
1.001	S1003	35	99.333	-0.257	0.000	0.05		8.7	OK
1.002	S1004	35	98.835	-0.245	0.000	0.08		11.1	OK
2.000	S1005	35	98.815	-0.244	0.000	0.08		9.8	OK
1.003	S1006	35	98.411	-0.234	0.000	0.11		26.6	OK
3.000	S1007	35	96.584	-0.386	0.000	0.05		11.8	OK
3.001	S1008	35	96.340	-0.370	0.000	0.07		11.8	OK
1.004	S1009	35	96.222	-0.386	0.000	0.19		50.2	OK
4.000	S1010	35	98.040	-0.260	0.000	0.04		8.7	OK
4.001	S1011	35	97.016	-0.254	0.000	0.06		8.7	OK
1.005	S1012	35	96.160	-0.370	0.000	0.31		64.8	OK
5.000	S1013	35	96.683	-0.329	0.000	0.04		6.7	OK
1.006	S1014	35	96.024	-0.466	0.000	0.11		83.6	OK
1.007	S1015	22	95.689	-0.060	0.000	0.31		90.6	OK
1.008	S1016	22	95.688	0.283	0.000	0.36		107.9	SURCHARGED
1.009	S1017	21	95.686	0.061	0.000	0.27		112.3	SURCHARGED
1.010	S1019	17	95.684	0.269	0.000	0.40		110.1	SURCHARGED
1.011	S1020	16	95.682	0.307	0.000	0.32		113.5	SURCHARGED
1.012	S1021	15	95.680	0.388	0.000	0.24		112.0	SURCHARGED
1.013	S1022	15	95.679	0.484	0.000	0.80		111.5	SURCHARGED
6.000	S8143	35	96.791	-0.309	0.000	0.07		15.2	OK

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Summary Wizard of 960 minute 100 year Summer I+40% 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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
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			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	
1.000	S1002	40	99.999	-0.196	0.000	0.04	2.8	OK
1.001	S1003	40	99.328	-0.262	0.000	0.04	6.9	OK
1.002	S1004	40	98.828	-0.252	0.000	0.06	8.8	OK
2.000	S1005	40	98.808	-0.251	0.000	0.06	7.8	OK
1.003	S1006	40	98.405	-0.240	0.000	0.09	21.2	OK
3.000	S1007	40	96.577	-0.393	0.000	0.04	9.4	OK
3.001	S1008	40	96.330	-0.380	0.000	0.06	9.4	OK
1.004	S1009	40	96.196	-0.412	0.000	0.15	39.9	OK
4.000	S1010	40	98.036	-0.264	0.000	0.03	6.9	OK
4.001	S1011	40	97.010	-0.260	0.000	0.04	6.9	OK
1.005	S1012	40	96.132	-0.398	0.000	0.25	51.5	OK
5.000	S1013	40	96.679	-0.333	0.000	0.03	5.3	OK
1.006	S1014	40	96.011	-0.479	0.000	0.09	66.4	OK
1.007	S1015	21	95.712	-0.037	0.000	0.25	71.9	OK
1.008	S1016	21	95.711	0.306	0.000	0.28	85.4	SURCHARGED
1.009	S1017	19	95.709	0.084	0.000	0.21	88.6	SURCHARGED
1.010	S1019	16	95.707	0.292	0.000	0.31	86.1	SURCHARGED
1.011	S1020	15	95.706	0.331	0.000	0.25	88.6	SURCHARGED
1.012	S1021	14	95.705	0.413	0.000	0.19	87.2	SURCHARGED
1.013	S1022	14	95.704	0.509	0.000	0.63	87.0	SURCHARGED
6.000	S8143	40	96.783	-0.317	0.000	0.06	12.0	OK

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Summary Wizard of 1440 minute 100 year Summer I+40% 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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
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			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	
1.000	S1002	49	99.995	-0.200	0.000	0.03	2.0	OK
1.001	S1003	49	99.323	-0.267	0.000	0.03	5.0	OK
1.002	S1004	49	98.820	-0.260	0.000	0.04	6.4	OK
2.000	S1005	49	98.800	-0.259	0.000	0.05	5.6	OK
1.003	S1006	49	98.394	-0.251	0.000	0.06	15.3	OK
3.000	S1007	49	96.570	-0.400	0.000	0.03	6.8	OK
3.001	S1008	49	96.319	-0.391	0.000	0.04	6.8	OK
1.004	S1009	49	96.165	-0.443	0.000	0.11	28.8	OK
4.000	S1010	49	98.032	-0.268	0.000	0.02	5.0	OK
4.001	S1011	49	97.005	-0.265	0.000	0.03	5.0	OK
1.005	S1012	49	96.101	-0.429	0.000	0.18	37.1	OK
5.000	S1013	49	96.674	-0.338	0.000	0.02	3.8	OK
1.006	S1014	49	95.989	-0.501	0.000	0.06	47.9	OK
1.007	S1015	20	95.724	-0.025	0.000	0.18	51.8	OK
1.008	S1016	19	95.723	0.318	0.000	0.20	61.3	SURCHARGED
1.009	S1017	16	95.722	0.097	0.000	0.15	63.2	SURCHARGED
1.010	S1019	13	95.722	0.307	0.000	0.22	60.9	SURCHARGED
1.011	S1020	12	95.722	0.347	0.000	0.18	62.5	SURCHARGED
1.012	S1021	12	95.721	0.429	0.000	0.13	61.4	SURCHARGED
1.013	S1022	12	95.720	0.525	0.000	0.44	61.1	SURCHARGED
6.000	S8143	49	96.774	-0.326	0.000	0.04	8.7	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 Coeffiecient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)	
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	38	95.263	-0.362	0.000	0.38		157.5		OK
1.010	S1019	47	95.166	-0.249	0.000	0.52		142.1		OK
1.011	S1020	50	95.136	-0.239	0.000	0.41		141.8		OK
1.012	S1021	50	95.098	-0.194	0.000	0.30		138.7		OK
1.013	S1022	50	95.078	-0.117	0.000	1.00		138.3		OK
6.000	S8143	24	96.811	-0.289	0.000	0.12		25.0		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 Coeffiecient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
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	59	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	94.888	-0.307	0.000	0.44		61.2	OK
6.000	S8143	52	96.772	-0.328	0.000	0.04		8.0	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (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	94.959	-0.456	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	0.36		50.6	OK		
6.000	S8143	56	96.768	-0.332	0.000	0.03		6.5	OK		

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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)	Half Drain Time (mins)	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	94.843	-0.449	0.000	0.08		38.2	OK
1.013	S1022	66	94.847	-0.348	0.000	0.27		38.1	OK
6.000	S8143	62	96.764	-0.336	0.000	0.02		4.9	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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 / Overflow Cap.	Half Drain Time (mins)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
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	94.906	-0.509	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	64	94.850	-0.442	0.000	0.07		30.7	OK
1.013	S1022	64	94.849	-0.346	0.000	0.22		30.7	OK
6.000	S8143	64	96.759	-0.341	0.000	0.02		3.9	OK

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

Number of Input Hydrographs 0 Number of Storage Structures 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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 / Overflow Cap.	Half Drain Time (mins)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
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	94.855	-0.520	0.000	0.08		26.2	OK
1.012	S1021	63	94.851	-0.441	0.000	0.06		26.0	OK
1.013	S1022	63	94.851	-0.344	0.000	0.19		26.0	OK
6.000	S8143	67	96.753	-0.347	0.000	0.02		3.3	OK

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<u>Summary Wizard of 15 minute 30 year Winter I+0% for Surface Network 4</u>								
				Water	Surcharged	Flooded		Half Drain
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)
6.001		S8130	6 96.390	-0.220	0.000	0.51		
6.002		S8158	7 96.307	-0.123	0.000	0.85		
6.003		S8129	7 96.080	-0.240	0.000	0.44		
7.000		S4004	8 95.938	-0.131	0.000	0.49		
6.004		S4005	8 95.904	-0.065	0.000	0.70		
6.005		S8122	13 95.744	0.150	0.000	1.57		
8.000		S8166	20 95.613	0.059	0.000	0.35		
6.006		S8123	20 95.606	-0.054	0.000	0.69		
6.007		S8125	22 95.562	0.198	0.000	1.08		
6.008		S4020	25 95.437	0.237	0.000	0.79		
6.009	S4021 - Headwall	25 95.411	0.291	0.000	2.29			
1.014	S4022	25 95.367	0.172	0.000	2.20			
1.015	S4023 - Control Chamber	47 94.855	0.055	0.000	0.12			
				Pipe				
	PN	US/MH Name	Flow (l/s)	Status				
	6.001	S8130	121.4	OK				
	6.002	S8158	123.9	OK				
	6.003	S8129	146.9	OK				
	7.000	S4004	48.9	OK				
	6.004	S4005	220.8	OK				
	6.005	S8122	223.6	SURCHARGED				
	8.000	S8166	29.9	SURCHARGED				
	6.006	S8123	265.4	OK				
	6.007	S8125	270.0	SURCHARGED				
	6.008	S4020	273.9	SURCHARGED				
	6.009	S4021 - Headwall	267.7	SURCHARGED				
	1.014	S4022	595.2	SURCHARGED				
	1.015	S4023 - Control Chamber	6.9	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 Coeffiecient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 2
Number of Online Controls 1 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
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)	Half Drain Time (mins)	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	95.885	0.136	0.000	1.07		312.9	SURCHARGED
1.008	S1016	10	95.845	0.440	0.000	1.18		355.3	SURCHARGED
1.009	S1017	13	95.760	0.135	0.000	0.84		350.1	SURCHARGED
1.010	S1019	21	95.633	0.218	0.000	1.25		342.4	SURCHARGED
1.011	S1020	23	95.583	0.208	0.000	0.99		345.6	SURCHARGED
1.012	S1021	25	95.502	0.210	0.000	0.74		345.3	SURCHARGED
1.013	S1022	26	95.453	0.258	0.000	2.47		342.9	SURCHARGED
6.000	S8143	10	96.864	-0.236	0.000	0.30		61.3	OK

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Micro Drainage

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

				Water	Surcharged	Flooded		Half Drain
PN	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Time
	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(mins)
6.001		S8130	25	96.278	-0.332	0.000	0.16	
6.002		S8158	25	96.137	-0.292	0.000	0.27	
6.003		S8129	24	95.983	-0.337	0.000	0.14	
7.000		S4004	29	95.793	-0.276	0.000	0.16	
6.004		S4005	33	95.669	-0.300	0.000	0.24	
6.005		S8122	35	95.384	-0.210	0.000	0.55	
8.000		S8166	32	95.308	-0.245	0.000	0.11	
6.006		S8123	32	95.302	-0.358	0.000	0.26	
6.007		S8125	33	95.261	-0.103	0.000	0.44	
6.008		S4020	37	95.227	0.027	0.000	0.32	
6.009	S4021 - Headwall	38	95.216	0.096	0.000	0.95		
1.014	S4022	37	95.195	0.000	0.000	1.01		
1.015	S4023 - Control Chamber	38	95.110	0.310	0.000	0.12		

			Pipe	
PN	US/MH	Flow	Status	
	Name	(l/s)		
6.001		S8130	37.5	OK
6.002		S8158	39.2	OK
6.003		S8129	47.5	OK
7.000		S4004	15.9	OK
6.004		S4005	76.5	OK
6.005		S8122	78.8	OK
8.000		S8166	9.8	OK
6.006		S8123	100.2	OK
6.007		S8125	110.0	OK
6.008		S4020	112.8	SURCHARGED
6.009	S4021 - Headwall	111.3	SURCHARGED	
1.014	S4022	272.9	OK	
1.015	S4023 - Control Chamber	7.0	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
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			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	
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	95.260	-0.489	0.000	0.13	37.5	OK
1.008	S1016	42	95.260	-0.145	0.000	0.15	45.0	OK
1.009	S1017	39	95.258	-0.367	0.000	0.11	47.1	OK
1.010	S1019	35	95.258	-0.157	0.000	0.17	46.5	OK
1.011	S1020	35	95.257	-0.118	0.000	0.14	47.8	OK
1.012	S1021	34	95.257	-0.035	0.000	0.10	46.7	OK
1.013	S1022	32	95.256	0.061	0.000	0.33	46.2	SURCHARGED
6.000	S8143	58	96.768	-0.332	0.000	0.03	6.3	OK

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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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
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 / Overflow Cap.	Half Drain Time (mins)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
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		27.2	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		27.4	OK
1.012	S1021	35	95.250	-0.042	0.000	0.06		26.8	OK
1.013	S1022	33	95.250	0.055	0.000	0.19		26.5	SURCHARGED
6.000	S8143	66	96.756	-0.344	0.000	0.02		3.6	OK

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Summary Wizard of 15 minute 100 year Winter I+40% 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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S1002	1	100.083	-0.112	0.000	0.49		33.1	OK
1.001	S1003	1	99.548	-0.042	0.000	0.49		85.4	OK
1.002	S1004	1	99.489	0.409	0.000	0.72		103.1	SURCHARGED
2.000	S1005	1	99.525	0.466	0.000	0.73		88.9	SURCHARGED
1.003	S1006	1	99.371	0.726	0.000	0.92		222.2	SURCHARGED
3.000	S1007	1	98.268	1.298	0.000	0.39		92.9	FLOOD RISK
3.001	S1008	1	98.226	1.516	0.000	0.51		82.3	SURCHARGED
1.004	S1009	1	98.188	1.580	0.000	1.45		377.6	SURCHARGED
4.000	S1010	1	98.277	-0.023	0.000	0.41		82.2	OK
4.001	S1011	1	98.173	0.903	0.000	0.47		73.3	SURCHARGED
1.005	S1012	1	98.055	1.525	0.000	2.24		462.0	FLOOD RISK
5.000	S1013	1	97.909	0.897	0.000	0.30		54.7	FLOOD RISK
1.006	S1014	1	97.865	1.375	0.000	0.80		589.5	FLOOD RISK
1.007	S1015	1	97.452	1.703	18.022	2.10		613.7	FLOOD
1.008	S1016	1	97.378	1.973	0.000	2.24		671.2	SURCHARGED
1.009	S1017	1	97.142	1.517	0.000	1.48		617.8	SURCHARGED
1.010	S1019	1	96.786	1.371	0.000	2.25		618.7	SURCHARGED
1.011	S1020	1	96.560	1.185	0.000	1.76		616.6	SURCHARGED

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Summary Wizard of 15 minute 100 year Winter I+40% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)
1.012		S1021	1 96.316	1.024	0.000	1.32	
1.013		S1022	1 96.085	0.890	0.000	4.37	
6.000		S8143	1 97.146	0.046	0.000	0.68	
6.001		S8130	1 97.003	0.393	0.000	0.84	
6.002		S8158	1 96.936	0.507	0.000	1.34	
6.003		S8129	1 96.847	0.527	0.000	0.59	
7.000		S4004	1 96.823	0.755	0.000	0.84	
6.004		S4005	1 96.786	0.817	0.000	0.80	
6.005		S8122	1 96.572	0.978	0.000	1.75	
8.000		S8166	1 96.350	0.796	0.000	0.58	
6.006		S8123	1 96.329	0.669	0.000	0.91	
6.007		S8125	1 96.234	0.870	0.000	1.58	
6.008		S4020	1 95.941	0.741	0.000	1.21	
6.009	S4021 - Headwall	3	95.814	0.694	0.000	3.48	
1.014		S4022	7 95.711	0.516	0.000	3.52	
1.015	S4023 - Control Chamber	40	95.090	0.290	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
1.012		S1021 615.9	SURCHARGED
1.013		S1022 606.0	FLOOD RISK
6.000		S8143 142.0	SURCHARGED
6.001		S8130 202.3	SURCHARGED
6.002		S8158 196.9	SURCHARGED
6.003		S8129 196.9	SURCHARGED
7.000		S4004 83.8	SURCHARGED
6.004		S4005 254.2	SURCHARGED
6.005		S8122 248.5	SURCHARGED
8.000		S8166 50.1	SURCHARGED
6.006		S8123 347.7	SURCHARGED
6.007		S8125 392.2	SURCHARGED
6.008		S4020 419.5	SURCHARGED
6.009	S4021 - Headwall	405.9	FLOOD RISK
1.014		S4022 951.2	SURCHARGED
1.015	S4023 - Control Chamber	7.0	SURCHARGED

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Summary Wizard of 30 minute 100 year Winter I+40% 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 2
 Number of Online Controls 1 Number of Time/Area Diagrams 0
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.410
 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S1002	4	100.067	-0.128	0.000	0.39		26.1	OK
1.001	S1003	4	99.417	-0.173	0.000	0.37		64.9	OK
1.002	S1004	4	98.945	-0.135	0.000	0.58		82.9	OK
2.000	S1005	4	98.949	-0.110	0.000	0.60		72.8	OK
1.003	S1006	3	98.845	0.200	0.000	0.81		196.4	SURCHARGED
3.000	S1007	2	98.065	1.095	0.000	0.33		77.7	SURCHARGED
3.001	S1008	2	98.030	1.320	0.000	0.44		69.9	SURCHARGED
1.004	S1009	2	97.998	1.390	0.000	1.23		320.4	SURCHARGED
4.000	S1010	4	98.117	-0.183	0.000	0.32		64.1	OK
4.001	S1011	2	97.989	0.719	0.000	0.41		62.8	SURCHARGED
1.005	S1012	2	97.899	1.369	0.000	1.92		395.6	SURCHARGED
5.000	S1013	2	97.794	0.782	0.000	0.26		47.2	FLOOD RISK
1.006	S1014	2	97.757	1.267	0.000	0.66		484.4	SURCHARGED
1.007	S1015	2	97.442	1.693	7.201	1.78		519.2	FLOOD
1.008	S1016	2	97.355	1.950	0.000	2.01		602.7	SURCHARGED
1.009	S1017	2	97.105	1.480	0.000	1.42		590.4	SURCHARGED
1.010	S1019	2	96.727	1.312	0.000	2.15		589.7	SURCHARGED
1.011	S1020	2	96.521	1.146	0.000	1.72		602.7	SURCHARGED

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Summary Wizard of 30 minute 100 year Winter I+40% for Surface Network 4								
PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.012		S1021	2 96.279	0.987	0.000	1.29		
1.013		S1022	2 96.053	0.858	0.000	4.31		
6.000		S8143	4 96.932	-0.168	0.000	0.54		
6.001		S8130	2 96.847	0.237	0.000	0.68		
6.002		S8158	2 96.804	0.375	0.000	1.09		
6.003		S8129	2 96.728	0.408	0.000	0.53		
7.000		S4004	2 96.716	0.647	0.000	0.67		
6.004		S4005	2 96.679	0.710	0.000	0.74		
6.005		S8122	2 96.494	0.900	0.000	1.68		
8.000		S8166	2 96.292	0.738	0.000	0.47		
6.006		S8123	2 96.276	0.616	0.000	0.78		
6.007		S8125	2 96.192	0.828	0.000	1.36		
6.008		S4020	2 95.910	0.710	0.000	1.05		
6.009	S4021 - Headwall	5	95.790	0.670	0.000	3.09		
1.014		S4022	10 95.691	0.496	0.000	3.47		
1.015	S4023 - Control Chamber	25	95.234	0.434	0.000	0.12		
	PN	US/MH Name		Pipe Flow (l/s)	Status			
	1.012			S1021 600.7	SURCHARGED			
	1.013			S1022 597.9	FLOOD RISK			
	6.000			S8143 112.3	OK			
	6.001			S8130 163.7	SURCHARGED			
	6.002			S8158 159.8	SURCHARGED			
	6.003			S8129 175.6	SURCHARGED			
	7.000			S4004 67.1	SURCHARGED			
	6.004			S4005 233.7	SURCHARGED			
	6.005			S8122 238.6	SURCHARGED			
	8.000			S8166 41.0	SURCHARGED			
	6.006			S8123 297.5	SURCHARGED			
	6.007			S8125 338.5	SURCHARGED			
	6.008			S4020 364.0	SURCHARGED			
	6.009	S4021 - Headwall		360.6	FLOOD RISK			
	1.014			S4022 938.5	SURCHARGED			
	1.015	S4023 - Control Chamber		7.0	SURCHARGED			
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Summary Wizard of 60 minute 100 year Winter I+40% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
6.001	S8130	8	96.381	-0.229	0.000	0.47	
6.002	S8158	6	96.337	-0.092	0.000	0.79	
6.003	S8129	6	96.283	-0.037	0.000	0.40	
7.000	S4004	6	96.270	0.201	0.000	0.46	
6.004	S4005	6	96.240	0.271	0.000	0.62	
6.005	S8122	6	96.098	0.504	0.000	1.42	
8.000	S8166	6	95.944	0.390	0.000	0.32	
6.006	S8123	6	95.931	0.271	0.000	0.67	
6.007	S8125	6	95.866	0.502	0.000	1.16	
6.008	S4020	16	95.644	0.444	0.000	0.88	
6.009	S4021 - Headwall	18	95.598	0.478	0.000	2.62	
1.014	S4022	21	95.519	0.324	0.000	2.89	
1.015	S4023 - Control Chamber	19	95.376	0.576	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
6.001	S8130	112.1	OK
6.002	S8158	116.1	OK
6.003	S8129	132.2	OK
7.000	S4004	45.6	SURCHARGED
6.004	S4005	196.2	SURCHARGED
6.005	S8122	201.9	SURCHARGED
8.000	S8166	28.0	SURCHARGED
6.006	S8123	256.7	SURCHARGED
6.007	S8125	288.9	SURCHARGED
6.008	S4020	306.1	SURCHARGED
6.009	S4021 - Headwall	305.9	SURCHARGED
1.014	S4022	781.7	SURCHARGED
1.015	S4023 - Control Chamber	7.0	SURCHARGED

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Summary Wizard of 360 minute 100 year Winter I+40% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)
6.001		S8130 30	96.265	-0.345	0.000	0.12	
6.002		S8158 30	96.120	-0.310	0.000	0.21	
6.003		S8129 29	95.970	-0.350	0.000	0.11	
7.000		S4004 34	95.782	-0.287	0.000	0.13	
6.004		S4005 21	95.717	-0.252	0.000	0.19	
6.005		S8122 15	95.714	0.120	0.000	0.44	
8.000		S8166 13	95.711	0.158	0.000	0.09	
6.006		S8123 13	95.711	0.051	0.000	0.20	
6.007		S8125 13	95.710	0.346	0.000	0.34	
6.008		S4020 11	95.708	0.508	0.000	0.25	
6.009	S4021 - Headwall	11	95.707	0.587	0.000	0.76	
1.014	S4022	8	95.707	0.512	0.000	0.86	
1.015	S4023 - Control Chamber	7	95.707	0.907	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
6.001		S8130 29.8	OK
6.002		S8158 31.2	OK
6.003		S8129 37.8	OK
7.000		S4004 12.6	OK
6.004		S4005 60.9	OK
6.005		S8122 62.7	SURCHARGED
8.000		S8166 7.7	SURCHARGED
6.006		S8123 78.4	SURCHARGED
6.007		S8125 85.8	SURCHARGED
6.008		S4020 88.4	SURCHARGED
6.009	S4021 - Headwall	88.2	SURCHARGED
1.014	S4022	231.3	SURCHARGED
1.015	S4023 - Control Chamber	7.0	SURCHARGED

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Summary Wizard of 600 minute 100 year Winter I+40% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
6.001	S8130	39	96.246	-0.364	0.000	0.08	
6.002	S8158	39	96.092	-0.338	0.000	0.14	
6.003	S8129	39	95.951	-0.369	0.000	0.08	
7.000	S4004	30	95.787	-0.281	0.000	0.08	
6.004	S4005	14	95.786	-0.183	0.000	0.13	
6.005	S8122	11	95.785	0.191	0.000	0.29	
8.000	S8166	10	95.783	0.230	0.000	0.06	
6.006	S8123	10	95.783	0.123	0.000	0.14	
6.007	S8125	10	95.782	0.418	0.000	0.23	
6.008	S4020	8	95.781	0.581	0.000	0.17	
6.009	S4021 - Headwall	6	95.781	0.661	0.000	0.50	
1.014	S4022	4	95.781	0.586	0.000	0.56	
1.015	S4023 - Control Chamber	4	95.780	0.980	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
6.001	S8130	19.9	OK
6.002	S8158	20.8	OK
6.003	S8129	25.2	OK
7.000	S4004	8.4	OK
6.004	S4005	40.6	OK
6.005	S8122	41.7	SURCHARGED
8.000	S8166	5.1	SURCHARGED
6.006	S8123	52.0	SURCHARGED
6.007	S8125	56.6	SURCHARGED
6.008	S4020	58.9	SURCHARGED
6.009	S4021 - Headwall	58.8	FLOOD RISK
1.014	S4022	150.4	SURCHARGED
1.015	S4023 - Control Chamber	7.0	FLOOD RISK

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Summary Wizard of 720 minute 100 year Winter I+40% 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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
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			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	
1.000	S1002	42	99.998	-0.197	0.000	0.04	2.6	OK
1.001	S1003	42	99.327	-0.263	0.000	0.04	6.5	OK
1.002	S1004	42	98.826	-0.254	0.000	0.06	8.3	OK
2.000	S1005	42	98.806	-0.253	0.000	0.06	7.3	OK
1.003	S1006	42	98.402	-0.243	0.000	0.08	19.8	OK
3.000	S1007	42	96.576	-0.394	0.000	0.04	8.8	OK
3.001	S1008	42	96.328	-0.382	0.000	0.05	8.8	OK
1.004	S1009	42	96.190	-0.418	0.000	0.14	37.4	OK
4.000	S1010	42	98.035	-0.265	0.000	0.03	6.4	OK
4.001	S1011	42	97.009	-0.261	0.000	0.04	6.4	OK
1.005	S1012	42	96.126	-0.404	0.000	0.23	48.3	OK
5.000	S1013	42	96.678	-0.334	0.000	0.03	5.0	OK
1.006	S1014	42	96.006	-0.484	0.000	0.08	62.2	OK
1.007	S1015	14	95.812	0.063	0.000	0.23	67.2	SURCHARGED
1.008	S1016	13	95.811	0.406	0.000	0.27	79.6	SURCHARGED
1.009	S1017	11	95.809	0.184	0.000	0.20	82.3	SURCHARGED
1.010	S1019	9	95.808	0.393	0.000	0.29	79.9	SURCHARGED
1.011	S1020	9	95.807	0.432	0.000	0.24	82.1	SURCHARGED
1.012	S1021	9	95.806	0.514	0.000	0.17	80.9	SURCHARGED
1.013	S1022	8	95.805	0.610	0.000	0.58	80.3	SURCHARGED
6.000	S8143	42	96.781	-0.319	0.000	0.05	11.3	OK

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Summary Wizard of 960 minute 100 year Winter I+40% 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
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			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	
1.000	S1002	47	99.996	-0.199	0.000	0.03	2.1	OK
1.001	S1003	47	99.324	-0.266	0.000	0.03	5.2	OK
1.002	S1004	47	98.821	-0.259	0.000	0.05	6.6	OK
2.000	S1005	47	98.801	-0.258	0.000	0.05	5.8	OK
1.003	S1006	47	98.395	-0.250	0.000	0.07	15.8	OK
3.000	S1007	47	96.570	-0.400	0.000	0.03	7.0	OK
3.001	S1008	47	96.320	-0.390	0.000	0.04	7.0	OK
1.004	S1009	47	96.168	-0.440	0.000	0.11	29.7	OK
4.000	S1010	47	98.032	-0.268	0.000	0.03	5.1	OK
4.001	S1011	47	97.005	-0.265	0.000	0.03	5.1	OK
1.005	S1012	47	96.104	-0.426	0.000	0.19	38.3	OK
5.000	S1013	47	96.675	-0.337	0.000	0.02	3.9	OK
1.006	S1014	47	95.991	-0.499	0.000	0.07	49.4	OK
1.007	S1015	12	95.840	0.091	0.000	0.18	53.3	SURCHARGED
1.008	S1016	11	95.839	0.434	0.000	0.21	63.0	SURCHARGED
1.009	S1017	10	95.837	0.212	0.000	0.16	65.1	SURCHARGED
1.010	S1019	8	95.837	0.422	0.000	0.23	62.9	SURCHARGED
1.011	S1020	8	95.836	0.461	0.000	0.18	64.6	SURCHARGED
1.012	S1021	8	95.835	0.543	0.000	0.14	64.2	SURCHARGED
1.013	S1022	6	95.834	0.639	0.000	0.46	64.1	SURCHARGED
6.000	S8143	47	96.775	-0.325	0.000	0.04	9.0	OK

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Summary Wizard of 960 minute 100 year Winter I+40% for Surface Network 4

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)
6.001	S8130	47	96.229	-0.381	0.000	0.06	
6.002	S8158	47	96.073	-0.356	0.000	0.10	
6.003	S8129	47	95.935	-0.385	0.000	0.05	
7.000	S4004	14	95.837	-0.232	0.000	0.06	
6.004	S4005	11	95.837	-0.132	0.000	0.09	
6.005	S8122	8	95.836	0.242	0.000	0.20	
8.000	S8166	8	95.835	0.281	0.000	0.04	
6.006	S8123	8	95.835	0.175	0.000	0.09	
6.007	S8125	8	95.834	0.470	0.000	0.16	
6.008	S4020	5	95.834	0.634	0.000	0.12	
6.009	S4021 - Headwall	2	95.833	0.713	0.000	0.34	
1.014	S4022	2	95.833	0.638	0.000	0.38	
1.015	S4023 - Control Chamber	2	95.833	1.033	0.000	0.12	

PN	US/MH Name	Pipe Flow (l/s)	Status
6.001	S8130	13.6	OK
6.002	S8158	14.3	OK
6.003	S8129	17.3	OK
7.000	S4004	5.8	OK
6.004	S4005	27.9	OK
6.005	S8122	28.6	SURCHARGED
8.000	S8166	3.5	SURCHARGED
6.006	S8123	35.5	SURCHARGED
6.007	S8125	38.8	SURCHARGED
6.008	S4020	40.4	SURCHARGED
6.009	S4021 - Headwall	40.3	FLOOD RISK
1.014	S4022	103.6	SURCHARGED
1.015	S4023 - Control Chamber	7.0	FLOOD RISK

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Summary Wizard of 1440 minute 100 year Winter I+40% 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	2
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.410
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			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	
1.000	S1002	57	99.993	-0.202	0.000	0.02	1.5	OK
1.001	S1003	57	99.320	-0.270	0.000	0.02	3.7	OK
1.002	S1004	57	98.815	-0.265	0.000	0.03	4.7	OK
2.000	S1005	57	98.795	-0.264	0.000	0.03	4.2	OK
1.003	S1006	57	98.387	-0.258	0.000	0.05	11.4	OK
3.000	S1007	57	96.565	-0.405	0.000	0.02	5.0	OK
3.001	S1008	57	96.312	-0.398	0.000	0.03	5.0	OK
1.004	S1009	57	96.142	-0.466	0.000	0.08	21.4	OK
4.000	S1010	57	98.026	-0.274	0.000	0.02	3.7	OK
4.001	S1011	57	97.001	-0.269	0.000	0.02	3.7	OK
1.005	S1012	57	96.075	-0.455	0.000	0.13	27.6	OK
5.000	S1013	57	96.664	-0.348	0.000	0.02	2.8	OK
1.006	S1014	57	95.974	-0.516	0.000	0.05	35.6	OK
1.007	S1015	11	95.861	0.112	0.000	0.13	38.4	SURCHARGED
1.008	S1016	9	95.860	0.455	0.000	0.15	45.3	SURCHARGED
1.009	S1017	8	95.859	0.234	0.000	0.11	47.1	SURCHARGED
1.010	S1019	7	95.859	0.444	0.000	0.17	45.7	SURCHARGED
1.011	S1020	7	95.858	0.483	0.000	0.13	47.0	SURCHARGED
1.012	S1021	7	95.858	0.566	0.000	0.10	46.7	SURCHARGED
1.013	S1022	5	95.858	0.663	0.000	0.34	46.5	SURCHARGED
6.000	S8143	57	96.768	-0.332	0.000	0.03	6.5	OK

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