

Lees Roxburgh Limited		Page 0
The Genesis Centre Science Park South Birchwood WA3 7BH		
Date 01/01/001 00:00	Designed by david wood	
File SW NET 2 10.10.18.MDX	Checked by	
Elstree Computing Ltd		Network 2015.1

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for SW NET 2 10.10.18.SWS

Pipe Sizes SW NET 1 10.10.18 Manhole Sizes SW NET 1 10.10.18

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	0
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio R	0.400	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	5	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	0.75
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500
Volumetric Runoff Coeff.	0.750		

Designed with Level Soffits

Network Design Table for SW NET 2 10.10.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
1.000	50.146	2.388	21.0	0.111	5.00	0.0	0.600	o	225	
2.000	42.388	0.254	166.9	0.106	5.00	0.0	0.600	o	300	
2.001	13.035	0.078	167.1	0.075	0.00	0.0	0.600	o	300	
1.001	42.530	0.387	109.9	0.102	0.00	0.0	0.600	o	300	
1.002	50.415	2.017	25.0	0.096	0.00	0.0	0.600	o	300	
3.000	14.447	0.103	140.3	0.055	5.00	0.0	0.600	o	375	
3.001	27.829	0.199	140.0	0.029	0.00	0.0	0.600	o	375	
3.002	13.794	0.066	209.0	0.027	0.00	0.0	0.600	o	375	
1.003	42.235	0.201	210.1	0.128	0.00	0.0	0.600	o	375	

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)
1.000	5.00	5.29	69.337	0.111	0.0	0.0	0.0	2.87	114.0	1.5
2.000	5.00	5.58	65.997	0.106	0.0	0.0	0.0	1.21	85.8	1.4
2.001	5.00	5.76	65.743	0.181	0.0	0.0	0.0	1.21	85.8	2.5
1.001	5.00	6.23	65.665	0.394	0.0	0.0	0.0	1.50	106.0	5.3
1.002	5.00	6.50	65.278	0.490	0.0	0.0	0.0	3.16	223.2	6.6
3.000	5.00	5.16	62.420	0.055	0.0	0.0	0.0	1.53	168.8	0.7
3.001	5.00	5.46	62.317	0.084	0.0	0.0	0.0	1.53	168.9	1.1
3.002	5.00	5.64	62.118	0.111	0.0	0.0	0.0	1.25	138.0	1.5
1.003	5.00	7.06	62.052	0.729	0.0	0.0	0.0	1.25	137.6	9.9

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Network Design Table for SW NET 2 10.10.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Auto Design
5.002	12.784	0.160	79.9	0.000	0.00	0.0	0.600	o	300	
5.003	48.768	0.513	95.1	0.081	0.00	0.0	0.600	o	300	
6.000	16.892	0.289	58.4	0.084	5.00	0.0	0.600	o	300	
5.004	35.374	0.442	80.0	0.033	0.00	0.0	0.600	o	300	
5.005	26.460	0.398	66.5	0.076	0.00	0.0	0.600	o	300	
7.000	32.830	0.134	245.0	0.090	5.00	0.0	0.600	o	300	
7.001	31.079	0.127	244.7	0.124	0.00	0.0	0.600	o	300	
1.015	13.492	0.045	300.0	0.000	0.00	0.0	0.600	o	450	
1.016	48.733	0.122	400.0	0.000	0.00	0.0	0.600	\	-1	
1.017	72.085	0.180	400.0	0.000	0.00	0.0	0.600	\	-1	
1.018	34.648	0.091	380.7	0.000	0.00	0.0	0.600	\	-1	

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)
5.002	5.00	5.71	62.561	0.228	0.0	0.0	0.0	1.76	124.4	3.1
5.003	5.00	6.21	62.401	0.309	0.0	0.0	0.0	1.61	114.0	4.2
6.000	5.00	5.14	62.177	0.084	0.0	0.0	0.0	2.06	145.6	1.1
5.004	5.00	6.55	61.888	0.426	0.0	0.0	0.0	1.76	124.3	5.8
5.005	5.00	6.78	61.446	0.502	0.0	0.0	0.0	1.93	136.5	6.8
7.000	5.00	5.55	61.309	0.090	0.0	0.0	0.0	1.00	70.7	1.2
7.001	5.00	6.06	61.175	0.214	0.0	0.0	0.0	1.00	70.7	2.9
1.015	5.00	10.06	60.793	1.981	0.0	0.0	0.0	1.17	185.8	26.8
1.016	5.00	10.58	60.523	1.981	0.0	0.0	0.0	1.56	711.9	26.8
1.017	5.00	11.35	60.401	1.981	0.0	0.0	0.0	1.56	711.9	26.8
1.018	5.00	11.71	60.221	1.981	0.0	0.0	0.0	1.60	729.8	26.8

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Manhole Schedules for SW NET 2 10.10.18.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
18	70.762	1.425	Open Manhole	1500	1.000	69.337	225				
19	67.497	1.500	Open Manhole	1500	2.000	65.997	300				
20	68.345	2.602	Open Manhole	1500	2.001	65.743	300	2.000	65.743	300	
21	68.478	2.813	Open Manhole	1500	1.001	65.665	300	1.000	66.949	225	1209
								2.001	65.665	300	
22	66.779	1.501	Open Manhole	1500	1.002	65.278	300	1.001	65.278	300	
23	63.995	1.575	Open Manhole	1500	3.000	62.420	375				
24	64.184	1.867	Open Manhole	1500	3.001	62.317	375	3.000	62.317	375	
25	64.648	2.530	Open Manhole	1800	3.002	62.118	375	3.001	62.118	375	
26	64.762	2.710	Open Manhole	1800	1.003	62.052	375	1.002	63.261	300	1134
								3.002	62.052	375	
27	63.713	1.937	Open Manhole	1800	1.004	61.776	450	1.003	61.851	375	
28	66.471	1.425	Open Manhole	1500	4.000	65.046	225				
29	66.200	1.464	Open Manhole	1500	4.001	64.736	225	4.000	64.736	225	
30	65.250	1.453	Open Manhole	1500	4.002	63.797	225	4.001	63.797	225	
31	64.250	1.451	Open Manhole	1500	4.003	62.799	225	4.002	62.799	225	
32	64.105	1.493	Open Manhole	1500	4.004	62.612	225	4.003	62.612	225	
33	64.050	1.515	Open Manhole	1500	4.005	62.535	225	4.004	62.535	225	
34	64.002	2.406	Open Manhole	2100	1.005	61.596	525	1.004	61.677	450	6
								4.005	61.896	225	
35	63.961	2.466	Open Manhole	2100	1.006	61.495	600	1.005	61.570	525	
36	63.874	2.420	Open Manhole	2100	1.007	61.454	600	1.006	61.454	600	
37	63.784	2.356	Open Manhole	2100	1.008	61.428	600	1.007	61.428	600	
38	63.650	2.254	Open Manhole	2100	1.009	61.396	600	1.008	61.396	600	
39	63.525	2.162	Open Manhole	2100	1.010	61.363	600	1.009	61.363	600	
40	63.250	1.985	Open Manhole	2100	1.011	61.265	600	1.010	61.265	600	
41	63.000	1.821	Open Manhole	2100	1.012	61.179	600	1.011	61.179	600	
42	63.000	2.034	Open Manhole	2100	1.013	60.966	600	1.012	60.966	600	
43	63.000	2.173	Open Manhole	2100	1.014	60.827	600	1.013	60.827	600	
44	65.374	1.425	Open Manhole	1500	5.000	63.949	225				
45	64.262	1.431	Open Manhole	1500	5.001	62.831	225	5.000	62.831	225	
46	64.074	1.513	Open Manhole	1500	5.002	62.561	300	5.001	62.636	225	
47	63.907	1.506	Open Manhole	1500	5.003	62.401	300	5.002	62.401	300	
48	63.677	1.500	Open Manhole	1500	6.000	62.177	300				
49	63.403	1.515	Open Manhole	1500	5.004	61.888	300	5.003	61.888	300	
								6.000	61.888	300	
50	63.449	2.003	Open Manhole	1500	5.005	61.446	300	5.004	61.446	300	
51	63.900	2.591	Open Manhole	1800	7.000	61.309	300				

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Manhole Schedules for SW NET 2 10.10.18.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
52	63.578	2.403	Open Manhole	2100	7.001	61.175	300	7.000	61.175	300	
53	63.264	2.471	Open Manhole	2400	1.015	60.793	450	1.014	60.793	600	
								5.005	61.048	300	105
								7.001	61.048	300	105
54	62.500	1.977	Open Manhole		1.016	60.523	-1	1.015	60.748	450	
55	61.800	1.399	Junction		1.017	60.401	-1	1.016	60.401	-1	
56	61.700	1.479	Junction	0	1.018	60.221	-1	1.017	60.221	-1	
57	0.000		Open Manhole	0		OUTFALL		1.018	60.130	-1	

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PIPELINE SCHEDULES for SW NET 2 10.10.18.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	225	18	70.762	69.337	1.200	Open Manhole	1500
2.000	o	300	19	67.497	65.997	1.200	Open Manhole	1500
2.001	o	300	20	68.345	65.743	2.302	Open Manhole	1500
1.001	o	300	21	68.478	65.665	2.513	Open Manhole	1500
1.002	o	300	22	66.779	65.278	1.201	Open Manhole	1500
3.000	o	375	23	63.995	62.420	1.200	Open Manhole	1500
3.001	o	375	24	64.184	62.317	1.492	Open Manhole	1500
3.002	o	375	25	64.648	62.118	2.155	Open Manhole	1800
1.003	o	375	26	64.762	62.052	2.335	Open Manhole	1800
1.004	o	450	27	63.713	61.776	1.487	Open Manhole	1800
4.000	o	225	28	66.471	65.046	1.200	Open Manhole	1500
4.001	o	225	29	66.200	64.736	1.239	Open Manhole	1500
4.002	o	225	30	65.250	63.797	1.228	Open Manhole	1500
4.003	o	225	31	64.250	62.799	1.226	Open Manhole	1500
4.004	o	225	32	64.105	62.612	1.268	Open Manhole	1500
4.005	o	225	33	64.050	62.535	1.290	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	50.146	21.0	21	68.478	66.949	1.304	Open Manhole	1500
2.000	42.388	166.9	20	68.345	65.743	2.302	Open Manhole	1500
2.001	13.035	167.1	21	68.478	65.665	2.513	Open Manhole	1500
1.001	42.530	109.9	22	66.779	65.278	1.201	Open Manhole	1500
1.002	50.415	25.0	26	64.762	63.261	1.201	Open Manhole	1800
3.000	14.447	140.3	24	64.184	62.317	1.492	Open Manhole	1500
3.001	27.829	140.0	25	64.648	62.118	2.155	Open Manhole	1800
3.002	13.794	209.0	26	64.762	62.052	2.335	Open Manhole	1800
1.003	42.235	210.1	27	63.713	61.851	1.487	Open Manhole	1800
1.004	29.703	300.0	34	64.002	61.677	1.875	Open Manhole	2100
4.000	21.673	69.9	29	66.200	64.736	1.239	Open Manhole	1500
4.001	26.279	28.0	30	65.250	63.797	1.228	Open Manhole	1500
4.002	30.931	31.0	31	64.250	62.799	1.226	Open Manhole	1500
4.003	30.785	164.6	32	64.105	62.612	1.268	Open Manhole	1500
4.004	12.632	164.1	33	64.050	62.535	1.290	Open Manhole	1500
4.005	15.586	24.4	34	64.002	61.896	1.881	Open Manhole	2100

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PIPELINE SCHEDULES for SW NET 2 10.10.18.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.005	o	525	34	64.002	61.596	1.881	Open Manhole	2100
1.006	o	600	35	63.961	61.495	1.866	Open Manhole	2100
1.007	o	600	36	63.874	61.454	1.820	Open Manhole	2100
1.008	o	600	37	63.784	61.428	1.756	Open Manhole	2100
1.009	o	600	38	63.650	61.396	1.654	Open Manhole	2100
1.010	o	600	39	63.525	61.363	1.562	Open Manhole	2100
1.011	o	600	40	63.250	61.265	1.385	Open Manhole	2100
1.012	o	600	41	63.000	61.179	1.221	Open Manhole	2100
1.013	o	600	42	63.000	60.966	1.434	Open Manhole	2100
1.014	o	600	43	63.000	60.827	1.573	Open Manhole	2100
5.000	o	225	44	65.374	63.949	1.200	Open Manhole	1500
5.001	o	225	45	64.262	62.831	1.206	Open Manhole	1500
5.002	o	300	46	64.074	62.561	1.213	Open Manhole	1500
5.003	o	300	47	63.907	62.401	1.206	Open Manhole	1500
6.000	o	300	48	63.677	62.177	1.200	Open Manhole	1500
5.004	o	300	49	63.403	61.888	1.215	Open Manhole	1500
5.005	o	300	50	63.449	61.446	1.703	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.005	10.330	400.0	35	63.961	61.570	1.866	Open Manhole	2100
1.006	16.598	400.0	36	63.874	61.454	1.820	Open Manhole	2100
1.007	10.091	400.0	37	63.784	61.428	1.756	Open Manhole	2100
1.008	13.102	400.0	38	63.650	61.396	1.654	Open Manhole	2100
1.009	13.059	400.0	39	63.525	61.363	1.562	Open Manhole	2100
1.010	39.153	399.5	40	63.250	61.265	1.385	Open Manhole	2100
1.011	34.451	400.6	41	63.000	61.179	1.221	Open Manhole	2100
1.012	24.505	115.0	42	63.000	60.966	1.434	Open Manhole	2100
1.013	16.035	115.4	43	63.000	60.827	1.573	Open Manhole	2100
1.014	13.583	400.0	53	63.264	60.793	1.871	Open Manhole	2400
5.000	53.654	48.0	45	64.262	62.831	1.206	Open Manhole	1500
5.001	11.712	60.1	46	64.074	62.636	1.213	Open Manhole	1500
5.002	12.784	79.9	47	63.907	62.401	1.206	Open Manhole	1500
5.003	48.768	95.1	49	63.403	61.888	1.215	Open Manhole	1500
6.000	16.892	58.4	49	63.403	61.888	1.215	Open Manhole	1500
5.004	35.374	80.0	50	63.449	61.446	1.703	Open Manhole	1500
5.005	26.460	66.5	53	63.264	61.048	1.916	Open Manhole	2400

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PIPELINE SCHEDULES for SW NET 2 10.10.18.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.000	o	300	51	63.900	61.309	2.291	Open Manhole	1800
7.001	o	300	52	63.578	61.175	2.103	Open Manhole	2100
1.015	o	450	53	63.264	60.793	2.021	Open Manhole	2400
1.016	\	-1	54	62.500	60.523	1.302	Open Manhole	10000
1.017	\	-1	55	61.800	60.401	0.724	Junction	
1.018	\	-1	56	61.700	60.221	0.804	Junction	

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.000	32.830	245.0	52	63.578	61.175	2.103	Open Manhole	2100
7.001	31.079	244.7	53	63.264	61.048	1.916	Open Manhole	2400
1.015	13.492	300.0	54	62.500	60.748	1.302	Open Manhole	10000
1.016	48.733	400.0	55	61.800	60.401	0.724	Junction	
1.017	72.085	400.0	56	61.700	60.221	0.804	Junction	
1.018	34.648	380.7	57	0.000	60.130		Open Manhole	0

Simulation Criteria for SW NET 2 10.10.18.SWS

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs 0 Number of Storage Structures 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	Profile Type	Summer
Return Period (years)	2	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.400		

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Online Controls for SW NET 2 10.10.18.SWS

Hydro-Brake Optimum® Manhole: 53, DS/PN: 1.015, Volume (m³): 18.2

Unit Reference	MD-SHE-0312-6640-2400-6640
Design Head (m)	2.400
Design Flow (l/s)	66.4
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Diameter (mm)	312
Invert Level (m)	60.793
Minimum Outlet Pipe Diameter (mm)	375
Suggested Manhole Diameter (mm)	Site Specific Design (Contact Hydro International)

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	2.400	65.6
Flush-Flo™	0.709	65.3
Kick-Flo®	1.551	53.1
Mean Flow over Head Range	-	56.4

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	9.4	1.200	62.2	3.000	73.1	7.000	110.3
0.200	32.0	1.400	58.5	3.500	78.7	7.500	114.1
0.300	55.4	1.600	53.9	4.000	84.0	8.000	117.7
0.400	61.8	1.800	57.1	4.500	89.0	8.500	121.3
0.500	64.0	2.000	60.1	5.000	93.6	9.000	124.7
0.600	65.0	2.200	62.9	5.500	98.1	9.500	128.0
0.800	65.2	2.400	65.6	6.000	102.3		
1.000	64.1	2.600	68.2	6.500	106.4		

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Summary Wizard of 15 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Surcharged		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
1.010	39	38	61.616	-0.347	0.000	0.34		98.8	OK
1.011	40	40	61.511	-0.354	0.000	0.35		99.8	OK
1.012	41	42	61.367	-0.412	0.000	0.22		99.7	OK
1.013	42	54	61.139	-0.427	0.000	0.14		52.7	OK
1.014	43	54	61.109	-0.318	0.000	0.26		52.2	OK
5.000	44	20	64.012	-0.162	0.000	0.17		12.4	OK
5.001	45	24	62.932	-0.124	0.000	0.41		23.6	OK
5.002	46	24	62.660	-0.201	0.000	0.24		23.7	OK
5.003	47	24	62.511	-0.190	0.000	0.29		30.9	OK
6.000	48	22	62.232	-0.245	0.000	0.08		9.6	OK
5.004	49	27	62.016	-0.172	0.000	0.37		42.5	OK
5.005	50	35	61.579	-0.167	0.000	0.40		49.2	OK
7.000	51	38	61.389	-0.220	0.000	0.16		10.1	OK
7.001	52	41	61.294	-0.181	0.000	0.33		21.4	OK
1.015	53	54	61.111	-0.133	0.000	0.42		58.5	OK
1.016	54	54	60.632	-0.566	0.000	0.09		54.4	OK
1.017	55	54	60.502	-0.575	0.000	0.08		54.1	OK
1.018	56	54	60.319	-0.577	0.000	0.09		54.1	OK

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Summary Wizard of 30 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water			Surcharged		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)		
1.000	18	24	69.386	-0.176	0.000	0.11	12.0	OK	
2.000	19	24	66.072	-0.225	0.000	0.14	11.2	OK	
2.001	20	25	65.847	-0.196	0.000	0.26	18.1	OK	
1.001	21	25	65.797	-0.168	0.000	0.40	39.3	OK	
1.002	22	25	65.375	-0.203	0.000	0.23	48.1	OK	
3.000	23	27	62.472	-0.323	0.000	0.05	5.9	OK	
3.001	24	28	62.375	-0.317	0.000	0.06	8.6	OK	
3.002	25	30	62.258	-0.235	0.000	0.10	10.8	OK	
1.003	26	31	62.252	-0.175	0.000	0.55	69.0	OK	
1.004	27	34	62.009	-0.218	0.000	0.50	80.1	OK	
4.000	28	24	65.072	-0.199	0.000	0.03	1.8	OK	
4.001	29	25	64.764	-0.197	0.000	0.04	3.5	OK	
4.002	30	25	63.848	-0.174	0.000	0.12	10.1	OK	
4.003	31	25	62.878	-0.146	0.000	0.26	10.0	OK	
4.004	32	25	62.718	-0.119	0.000	0.45	15.6	OK	
4.005	33	25	62.604	-0.156	0.000	0.20	19.0	OK	
1.005	34	35	61.922	-0.199	0.000	0.70	97.8	OK	
1.006	35	35	61.804	-0.291	0.000	0.44	98.2	OK	
1.007	36	35	61.766	-0.288	0.000	0.52	97.9	OK	
1.008	37	35	61.735	-0.293	0.000	0.49	98.2	OK	
1.009	38	35	61.697	-0.299	0.000	0.50	100.8	OK	

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Summary Wizard of 30 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Flooded		Pipe	
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.010	39	37	61.618	-0.345	0.000	0.34		99.6	OK
1.011	40	39	61.513	-0.352	0.000	0.36		101.9	OK
1.012	41	41	61.369	-0.410	0.000	0.22		102.0	OK
1.013	42	47	61.186	-0.380	0.000	0.14		52.0	OK
1.014	43	47	61.172	-0.255	0.000	0.26		53.2	OK
5.000	44	24	64.010	-0.164	0.000	0.16		11.8	OK
5.001	45	25	62.930	-0.126	0.000	0.40		22.8	OK
5.002	46	25	62.658	-0.203	0.000	0.23		22.6	OK
5.003	47	25	62.510	-0.191	0.000	0.28		30.1	OK
6.000	48	25	62.230	-0.247	0.000	0.07		9.1	OK
5.004	49	28	62.013	-0.175	0.000	0.36		41.5	OK
5.005	50	36	61.577	-0.169	0.000	0.39		48.1	OK
7.000	51	39	61.386	-0.223	0.000	0.15		9.5	OK
7.001	52	42	61.293	-0.182	0.000	0.32		20.8	OK
1.015	53	47	61.160	-0.083	0.000	0.44		60.8	OK
1.016	54	47	60.641	-0.558	0.000	0.10		60.4	OK
1.017	55	47	60.509	-0.567	0.000	0.09		60.4	OK
1.018	56	48	60.327	-0.569	0.000	0.10		60.3	OK

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Summary Wizard of 60 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet 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 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
1.000	18	30	69.381	-0.181	0.000	0.08	9.0	OK	
2.000	19	30	66.063	-0.234	0.000	0.11	8.6	OK	
2.001	20	31	65.836	-0.207	0.000	0.21	14.5	OK	
1.001	21	31	65.782	-0.183	0.000	0.32	31.6	OK	
1.002	22	31	65.365	-0.213	0.000	0.19	39.1	OK	
3.000	23	31	62.466	-0.329	0.000	0.04	4.5	OK	
3.001	24	32	62.369	-0.323	0.000	0.05	6.8	OK	
3.002	25	36	62.237	-0.257	0.000	0.08	8.7	OK	
1.003	26	36	62.230	-0.197	0.000	0.45	56.5	OK	
1.004	27	37	61.984	-0.242	0.000	0.43	67.9	OK	
4.000	28	30	65.070	-0.201	0.000	0.02	1.4	OK	
4.001	29	31	64.762	-0.199	0.000	0.03	2.8	OK	
4.002	30	31	63.843	-0.179	0.000	0.09	8.2	OK	
4.003	31	31	62.870	-0.154	0.000	0.22	8.3	OK	
4.004	32	32	62.707	-0.130	0.000	0.37	13.0	OK	
4.005	33	32	62.597	-0.163	0.000	0.17	15.9	OK	
1.005	34	38	61.891	-0.230	0.000	0.60	83.8	OK	
1.006	35	38	61.779	-0.316	0.000	0.38	84.7	OK	
1.007	36	38	61.743	-0.311	0.000	0.45	84.1	OK	
1.008	37	38	61.712	-0.317	0.000	0.42	84.2	OK	
1.009	38	39	61.674	-0.322	0.000	0.44	88.0	OK	

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Summary Wizard of 60 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Flooded		Pipe	
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.010	39	39	61.601	-0.362	0.000	0.30		87.6	OK
1.011	40	42	61.498	-0.367	0.000	0.32		90.5	OK
1.012	41	44	61.359	-0.420	0.000	0.20		91.0	OK
1.013	42	43	61.221	-0.345	0.000	0.13		49.5	OK
1.014	43	42	61.209	-0.219	0.000	0.25		50.5	OK
5.000	44	30	64.002	-0.172	0.000	0.12		8.9	OK
5.001	45	31	62.919	-0.137	0.000	0.32		18.2	OK
5.002	46	31	62.648	-0.213	0.000	0.18		18.3	OK
5.003	47	31	62.498	-0.203	0.000	0.23		24.6	OK
6.000	48	30	62.223	-0.254	0.000	0.06		6.9	OK
5.004	49	33	61.999	-0.189	0.000	0.30		33.8	OK
5.005	50	38	61.563	-0.183	0.000	0.32		39.6	OK
7.000	51	42	61.377	-0.232	0.000	0.11		7.3	OK
7.001	52	44	61.279	-0.196	0.000	0.26		17.0	OK
1.015	53	42	61.197	-0.046	0.000	0.44		61.8	OK
1.016	54	43	60.642	-0.556	0.000	0.11		61.6	OK
1.017	55	42	60.510	-0.566	0.000	0.09		61.6	OK
1.018	56	42	60.328	-0.568	0.000	0.10		61.5	OK

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Summary Wizard of 120 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								Status
1.000	18	39	69.372	-0.190	0.000	0.06		6.4 OK
2.000	19	39	66.052	-0.245	0.000	0.08		6.1 OK
2.001	20	39	65.820	-0.223	0.000	0.15		10.4 OK
1.001	21	39	65.763	-0.202	0.000	0.23		22.6 OK
1.002	22	39	65.351	-0.227	0.000	0.13		28.0 OK
3.000	23	39	62.460	-0.335	0.000	0.03		3.2 OK
3.001	24	39	62.361	-0.331	0.000	0.03		4.9 OK
3.002	25	40	62.211	-0.282	0.000	0.06		6.3 OK
1.003	26	40	62.202	-0.225	0.000	0.33		41.2 OK
1.004	27	41	61.952	-0.275	0.000	0.31		49.6 OK
4.000	28	39	65.065	-0.206	0.000	0.02		1.0 OK
4.001	29	39	64.759	-0.202	0.000	0.02		2.0 OK
4.002	30	39	63.836	-0.186	0.000	0.07		6.1 OK
4.003	31	39	62.859	-0.165	0.000	0.16		6.0 OK
4.004	32	39	62.692	-0.145	0.000	0.27		9.4 OK
4.005	33	39	62.588	-0.172	0.000	0.12		11.6 OK
1.005	34	41	61.843	-0.278	0.000	0.43		60.0 OK
1.006	35	41	61.736	-0.359	0.000	0.27		61.7 OK
1.007	36	41	61.698	-0.355	0.000	0.33		62.6 OK
1.008	37	42	61.667	-0.361	0.000	0.31		63.4 OK
1.009	38	42	61.629	-0.367	0.000	0.33		66.2 OK

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Summary Wizard of 120 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged			Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)			Flow (l/s)	
1.010	39	44	61.567	-0.396	0.000	0.23		66.1	OK
1.011	40	44	61.467	-0.399	0.000	0.24		68.5	OK
1.012	41	46	61.334	-0.445	0.000	0.15		67.8	OK
1.013	42	45	61.208	-0.358	0.000	0.13		48.5	OK
1.014	43	45	61.191	-0.236	0.000	0.24		49.6	OK
5.000	44	39	63.994	-0.180	0.000	0.09		6.4	OK
5.001	45	39	62.904	-0.152	0.000	0.23		13.2	OK
5.002	46	39	62.633	-0.228	0.000	0.13		13.1	OK
5.003	47	39	62.483	-0.218	0.000	0.16		17.6	OK
6.000	48	39	62.215	-0.262	0.000	0.04		4.9	OK
5.004	49	39	61.982	-0.206	0.000	0.21		24.3	OK
5.005	50	41	61.545	-0.201	0.000	0.23		28.5	OK
7.000	51	44	61.366	-0.243	0.000	0.08		5.2	OK
7.001	52	46	61.264	-0.211	0.000	0.19		12.2	OK
1.015	53	45	61.177	-0.066	0.000	0.44		61.4	OK
1.016	54	45	60.642	-0.556	0.000	0.11		61.3	OK
1.017	55	45	60.510	-0.566	0.000	0.09		61.3	OK
1.018	56	45	60.328	-0.568	0.000	0.10		61.2	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								Status
1.000	18	44	69.369	-0.193	0.000	0.05	5.4	OK
2.000	19	44	66.046	-0.251	0.000	0.06	5.1	OK
2.001	20	44	65.813	-0.230	0.000	0.12	8.6	OK
1.001	21	44	65.754	-0.211	0.000	0.19	18.5	OK
1.002	22	44	65.344	-0.234	0.000	0.11	22.9	OK
3.000	23	44	62.458	-0.337	0.000	0.02	2.6	OK
3.001	24	44	62.358	-0.334	0.000	0.03	4.0	OK
3.002	25	44	62.197	-0.296	0.000	0.05	5.2	OK
1.003	26	44	62.186	-0.241	0.000	0.27	34.3	OK
1.004	27	44	61.932	-0.294	0.000	0.26	41.6	OK
4.000	28	44	65.062	-0.209	0.000	0.01	0.8	OK
4.001	29	44	64.756	-0.205	0.000	0.02	1.6	OK
4.002	30	44	63.832	-0.190	0.000	0.06	4.9	OK
4.003	31	44	62.853	-0.171	0.000	0.13	4.9	OK
4.004	32	44	62.684	-0.153	0.000	0.22	7.7	OK
4.005	33	44	62.583	-0.177	0.000	0.10	9.5	OK
1.005	34	45	61.815	-0.306	0.000	0.37	51.2	OK
1.006	35	45	61.712	-0.383	0.000	0.23	51.9	OK
1.007	36	45	61.675	-0.378	0.000	0.28	51.7	OK
1.008	37	45	61.645	-0.383	0.000	0.26	52.2	OK
1.009	38	46	61.608	-0.388	0.000	0.27	54.8	OK

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Summary Wizard of 180 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
1.010	39	46	61.549	-0.414	0.000	0.19	55.0	OK
1.011	40	46	61.448	-0.417	0.000	0.20	57.7	OK
1.012	41	48	61.320	-0.459	0.000	0.12	57.4	OK
1.013	42	48	61.177	-0.389	0.000	0.12	46.3	OK
1.014	43	48	61.161	-0.266	0.000	0.23	47.2	OK
5.000	44	44	63.989	-0.185	0.000	0.07	5.3	OK
5.001	45	44	62.897	-0.159	0.000	0.19	10.8	OK
5.002	46	44	62.627	-0.234	0.000	0.11	10.7	OK
5.003	47	44	62.475	-0.226	0.000	0.13	14.5	OK
6.000	48	44	62.212	-0.265	0.000	0.03	4.1	OK
5.004	49	44	61.973	-0.215	0.000	0.17	20.0	OK
5.005	50	44	61.536	-0.210	0.000	0.19	23.6	OK
7.000	51	45	61.360	-0.249	0.000	0.07	4.3	OK
7.001	52	48	61.255	-0.220	0.000	0.16	10.0	OK
1.015	53	49	61.150	-0.093	0.000	0.43	60.4	OK
1.016	54	48	60.640	-0.558	0.000	0.10	60.4	OK
1.017	55	48	60.509	-0.567	0.000	0.09	60.3	OK
1.018	56	47	60.327	-0.569	0.000	0.10	60.4	OK

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Summary Wizard of 240 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
1.000	18	50	69.366	-0.196	0.000	0.04	4.5	OK	
2.000	19	50	66.042	-0.255	0.000	0.05	4.3	OK	
2.001	20	50	65.808	-0.235	0.000	0.10	7.3	OK	
1.001	21	50	65.745	-0.220	0.000	0.16	15.9	OK	
1.002	22	50	65.340	-0.238	0.000	0.09	19.8	OK	
3.000	23	50	62.452	-0.343	0.000	0.02	2.2	OK	
3.001	24	50	62.356	-0.336	0.000	0.02	3.4	OK	
3.002	25	50	62.188	-0.305	0.000	0.04	4.5	OK	
1.003	26	50	62.175	-0.252	0.000	0.23	29.2	OK	
1.004	27	50	61.920	-0.306	0.000	0.22	35.3	OK	
4.000	28	50	65.059	-0.212	0.000	0.01	0.7	OK	
4.001	29	50	64.753	-0.208	0.000	0.02	1.4	OK	
4.002	30	50	63.829	-0.193	0.000	0.05	4.3	OK	
4.003	31	50	62.849	-0.175	0.000	0.11	4.2	OK	
4.004	32	50	62.679	-0.158	0.000	0.19	6.7	OK	
4.005	33	50	62.580	-0.180	0.000	0.09	8.2	OK	
1.005	34	50	61.798	-0.323	0.000	0.31	43.1	OK	
1.006	35	50	61.695	-0.400	0.000	0.20	44.1	OK	
1.007	36	50	61.658	-0.396	0.000	0.24	44.6	OK	
1.008	37	50	61.628	-0.401	0.000	0.22	45.1	OK	
1.009	38	50	61.591	-0.405	0.000	0.23	47.2	OK	

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Summary Wizard of 240 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
1.010	39	50	61.535	-0.428	0.000	0.16	47.3	OK
1.011	40	50	61.434	-0.431	0.000	0.17	49.6	OK
1.012	41	50	61.310	-0.469	0.000	0.11	49.4	OK
1.013	42	51	61.150	-0.416	0.000	0.11	42.3	OK
1.014	43	51	61.135	-0.292	0.000	0.21	42.8	OK
5.000	44	50	63.985	-0.189	0.000	0.06	4.5	OK
5.001	45	50	62.891	-0.165	0.000	0.16	9.2	OK
5.002	46	50	62.622	-0.239	0.000	0.09	9.2	OK
5.003	47	50	62.469	-0.232	0.000	0.12	12.4	OK
6.000	48	50	62.210	-0.267	0.000	0.03	3.4	OK
5.004	49	50	61.965	-0.223	0.000	0.15	17.1	OK
5.005	50	50	61.528	-0.218	0.000	0.16	20.2	OK
7.000	51	50	61.355	-0.254	0.000	0.06	3.6	OK
7.001	52	50	61.248	-0.227	0.000	0.13	8.6	OK
1.015	53	51	61.125	-0.118	0.000	0.43	59.4	OK
1.016	54	50	60.639	-0.559	0.000	0.10	59.4	OK
1.017	55	50	60.508	-0.569	0.000	0.09	59.4	OK
1.018	56	50	60.326	-0.570	0.000	0.10	59.4	OK

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Summary Wizard of 360 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
1.010	39	54	61.513	-0.450	0.000	0.13	36.8	OK
1.011	40	55	61.412	-0.453	0.000	0.14	39.0	OK
1.012	41	55	61.295	-0.484	0.000	0.08	39.0	OK
1.013	42	56	61.113	-0.453	0.000	0.10	35.6	OK
1.014	43	56	61.088	-0.339	0.000	0.18	35.9	OK
5.000	44	54	63.980	-0.194	0.000	0.05	3.5	OK
5.001	45	54	62.884	-0.172	0.000	0.12	7.1	OK
5.002	46	54	62.613	-0.248	0.000	0.07	7.1	OK
5.003	47	54	62.462	-0.239	0.000	0.09	9.7	OK
6.000	48	54	62.207	-0.270	0.000	0.02	2.6	OK
5.004	49	54	61.956	-0.232	0.000	0.12	13.3	OK
5.005	50	54	61.517	-0.229	0.000	0.13	15.7	OK
7.000	51	54	61.349	-0.260	0.000	0.04	2.8	OK
7.001	52	54	61.239	-0.236	0.000	0.10	6.7	OK
1.015	53	56	61.079	-0.164	0.000	0.38	52.5	OK
1.016	54	56	60.630	-0.568	0.000	0.09	52.2	OK
1.017	55	56	60.499	-0.577	0.000	0.08	52.3	OK
1.018	56	56	60.317	-0.579	0.000	0.09	52.4	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
1.000	18	57	69.361	-0.201	0.000	0.03	2.9	OK
2.000	19	57	66.033	-0.264	0.000	0.03	2.8	OK
2.001	20	57	65.794	-0.249	0.000	0.07	4.7	OK
1.001	21	57	65.729	-0.236	0.000	0.10	10.3	OK
1.002	22	57	65.326	-0.252	0.000	0.06	12.8	OK
3.000	23	57	62.440	-0.355	0.000	0.01	1.4	OK
3.001	24	57	62.343	-0.349	0.000	0.01	2.2	OK
3.002	25	57	62.168	-0.326	0.000	0.03	2.9	OK
1.003	26	57	62.149	-0.278	0.000	0.15	19.0	OK
1.004	27	57	61.889	-0.337	0.000	0.14	23.1	OK
4.000	28	57	65.054	-0.217	0.000	0.01	0.4	OK
4.001	29	57	64.747	-0.214	0.000	0.01	0.9	OK
4.002	30	57	63.823	-0.199	0.000	0.03	2.7	OK
4.003	31	57	62.839	-0.185	0.000	0.07	2.7	OK
4.004	32	57	62.664	-0.173	0.000	0.12	4.3	OK
4.005	33	57	62.569	-0.191	0.000	0.06	5.3	OK
1.005	34	57	61.756	-0.365	0.000	0.20	28.4	OK
1.006	35	57	61.654	-0.442	0.000	0.13	28.9	OK
1.007	36	57	61.617	-0.437	0.000	0.16	29.1	OK
1.008	37	57	61.588	-0.441	0.000	0.14	29.2	OK
1.009	38	57	61.551	-0.444	0.000	0.15	30.4	OK

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Summary Wizard of 480 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
1.010	39	57	61.500	-0.463	0.000	0.11	30.6	OK
1.011	40	57	61.400	-0.465	0.000	0.11	32.4	OK
1.012	41	57	61.283	-0.496	0.000	0.07	32.6	OK
1.013	42	58	61.093	-0.473	0.000	0.08	30.8	OK
1.014	43	58	61.059	-0.368	0.000	0.15	30.9	OK
5.000	44	57	63.978	-0.196	0.000	0.04	2.9	OK
5.001	45	57	62.879	-0.177	0.000	0.10	5.9	OK
5.002	46	57	62.608	-0.253	0.000	0.06	5.9	OK
5.003	47	57	62.455	-0.246	0.000	0.08	8.1	OK
6.000	48	57	62.202	-0.275	0.000	0.02	2.2	OK
5.004	49	57	61.950	-0.238	0.000	0.10	11.1	OK
5.005	50	57	61.511	-0.235	0.000	0.11	13.1	OK
7.000	51	57	61.346	-0.263	0.000	0.04	2.3	OK
7.001	52	57	61.234	-0.241	0.000	0.09	5.6	OK
1.015	53	58	61.049	-0.194	0.000	0.33	45.8	OK
1.016	54	58	60.620	-0.578	0.000	0.08	45.9	OK
1.017	55	58	60.491	-0.586	0.000	0.07	45.8	OK
1.018	56	58	60.310	-0.586	0.000	0.08	45.8	OK

Summary Wizard of 600 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
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	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

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe			Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
1.000	18	60	69.360	-0.202	0.000	0.02		2.5	OK
2.000	19	60	66.031	-0.266	0.000	0.03		2.4	OK
2.001	20	60	65.790	-0.253	0.000	0.06		4.1	OK
1.001	21	60	65.725	-0.240	0.000	0.09		8.9	OK
1.002	22	60	65.322	-0.256	0.000	0.05		11.1	OK
3.000	23	60	62.438	-0.357	0.000	0.01		1.2	OK
3.001	24	60	62.340	-0.352	0.000	0.01		1.9	OK
3.002	25	60	62.163	-0.330	0.000	0.02		2.5	OK
1.003	26	60	62.142	-0.285	0.000	0.13		16.5	OK
1.004	27	60	61.881	-0.345	0.000	0.13		20.0	OK
4.000	28	60	65.053	-0.218	0.000	0.01		0.4	OK
4.001	29	60	64.745	-0.216	0.000	0.01		0.8	OK
4.002	30	60	63.821	-0.201	0.000	0.03		2.4	OK
4.003	31	60	62.835	-0.189	0.000	0.06		2.4	OK
4.004	32	60	62.661	-0.176	0.000	0.11		3.7	OK
4.005	33	60	62.567	-0.193	0.000	0.05		4.6	OK
1.005	34	60	61.744	-0.377	0.000	0.18		24.6	OK
1.006	35	60	61.642	-0.453	0.000	0.11		25.1	OK
1.007	36	60	61.605	-0.449	0.000	0.13		25.2	OK
1.008	37	60	61.576	-0.452	0.000	0.13		25.3	OK
1.009	38	60	61.540	-0.456	0.000	0.13		26.5	OK

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Summary Wizard of 600 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Flooded		Pipe	
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.010	39	60	61.492	-0.471	0.000	0.09		26.5	OK
1.011	40	60	61.391	-0.474	0.000	0.10		28.0	OK
1.012	41	60	61.275	-0.504	0.000	0.06		28.2	OK
1.013	42	60	61.080	-0.486	0.000	0.07		27.1	OK
1.014	43	60	61.039	-0.388	0.000	0.13		27.2	OK
5.000	44	60	63.976	-0.198	0.000	0.03		2.5	OK
5.001	45	60	62.876	-0.180	0.000	0.09		5.1	OK
5.002	46	60	62.604	-0.257	0.000	0.05		5.1	OK
5.003	47	60	62.451	-0.250	0.000	0.07		7.0	OK
6.000	48	60	62.199	-0.278	0.000	0.02		1.9	OK
5.004	49	60	61.946	-0.242	0.000	0.08		9.6	OK
5.005	50	60	61.507	-0.239	0.000	0.09		11.3	OK
7.000	51	60	61.344	-0.265	0.000	0.03		2.0	OK
7.001	52	60	61.229	-0.246	0.000	0.07		4.8	OK
1.015	53	60	61.028	-0.215	0.000	0.29		40.6	OK
1.016	54	60	60.613	-0.585	0.000	0.07		40.5	OK
1.017	55	60	60.484	-0.592	0.000	0.06		40.7	OK
1.018	56	60	60.304	-0.592	0.000	0.07		40.7	OK

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Summary Wizard of 720 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Flooded		Pipe	
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.010	39	61	61.485	-0.478	0.000	0.08		23.6	OK
1.011	40	61	61.385	-0.480	0.000	0.09		24.9	OK
1.012	41	61	61.269	-0.510	0.000	0.05		25.0	OK
1.013	42	61	61.070	-0.496	0.000	0.06		24.2	OK
1.014	43	61	61.025	-0.403	0.000	0.12		24.4	OK
5.000	44	61	63.975	-0.199	0.000	0.03		2.2	OK
5.001	45	61	62.873	-0.183	0.000	0.08		4.6	OK
5.002	46	61	62.602	-0.259	0.000	0.05		4.6	OK
5.003	47	61	62.447	-0.254	0.000	0.06		6.2	OK
6.000	48	61	62.196	-0.281	0.000	0.01		1.7	OK
5.004	49	61	61.942	-0.246	0.000	0.07		8.6	OK
5.005	50	61	61.503	-0.243	0.000	0.08		10.1	OK
7.000	51	61	61.342	-0.267	0.000	0.03		1.8	OK
7.001	52	61	61.225	-0.250	0.000	0.07		4.3	OK
1.015	53	62	61.013	-0.230	0.000	0.27		37.0	OK
1.016	54	62	60.607	-0.591	0.000	0.06		36.8	OK
1.017	55	62	60.479	-0.598	0.000	0.05		36.7	OK
1.018	56	62	60.300	-0.596	0.000	0.06		36.7	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status	
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)		Flow (l/s)
1.000	18	64	69.355	-0.207	0.000	0.02		1.9	OK
2.000	19	64	66.027	-0.270	0.000	0.02		1.8	OK
2.001	20	64	65.783	-0.260	0.000	0.04		3.0	OK
1.001	21	64	65.715	-0.250	0.000	0.07		6.6	OK
1.002	22	64	65.316	-0.262	0.000	0.04		8.2	OK
3.000	23	64	62.433	-0.362	0.000	0.01		0.9	OK
3.001	24	64	62.334	-0.358	0.000	0.01		1.4	OK
3.002	25	64	62.157	-0.337	0.000	0.02		1.9	OK
1.003	26	64	62.130	-0.297	0.000	0.10		12.2	OK
1.004	27	64	61.868	-0.358	0.000	0.09		14.8	OK
4.000	28	64	65.051	-0.220	0.000	0.01		0.3	OK
4.001	29	64	64.743	-0.218	0.000	0.01		0.6	OK
4.002	30	64	63.818	-0.204	0.000	0.02		1.8	OK
4.003	31	64	62.830	-0.194	0.000	0.05		1.8	OK
4.004	32	64	62.654	-0.183	0.000	0.08		2.8	OK
4.005	33	64	62.563	-0.197	0.000	0.04		3.4	OK
1.005	34	64	61.721	-0.400	0.000	0.13		18.2	OK
1.006	35	64	61.622	-0.473	0.000	0.08		18.5	OK
1.007	36	64	61.585	-0.469	0.000	0.10		18.7	OK
1.008	37	64	61.557	-0.472	0.000	0.09		18.8	OK
1.009	38	64	61.521	-0.475	0.000	0.10		19.7	OK

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Summary Wizard of 960 minute 1 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
1.010	39	64	61.473	-0.490	0.000	0.07	19.7	OK
1.011	40	64	61.373	-0.492	0.000	0.07	20.8	OK
1.012	41	64	61.261	-0.518	0.000	0.04	20.8	OK
1.013	42	64	61.057	-0.509	0.000	0.06	20.7	OK
1.014	43	64	61.004	-0.423	0.000	0.10	20.6	OK
5.000	44	64	63.973	-0.201	0.000	0.03	1.8	OK
5.001	45	64	62.869	-0.187	0.000	0.07	3.8	OK
5.002	46	64	62.599	-0.262	0.000	0.04	3.8	OK
5.003	47	64	62.443	-0.258	0.000	0.05	5.2	OK
6.000	48	64	62.193	-0.284	0.000	0.01	1.4	OK
5.004	49	64	61.936	-0.252	0.000	0.06	7.1	OK
5.005	50	64	61.497	-0.249	0.000	0.07	8.4	OK
7.000	51	64	61.340	-0.269	0.000	0.02	1.5	OK
7.001	52	64	61.220	-0.255	0.000	0.06	3.6	OK
1.015	53	64	60.992	-0.251	0.000	0.23	31.5	OK
1.016	54	64	60.598	-0.600	0.000	0.05	31.5	OK
1.017	55	64	60.471	-0.606	0.000	0.05	31.5	OK
1.018	56	64	60.294	-0.602	0.000	0.05	31.4	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet 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 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

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	18	8	69.419	-0.143	0.000	0.28		30.9	OK
2.000	19	8	66.124	-0.173	0.000	0.36		29.2	OK
2.001	20	8	66.050	0.007	0.000	0.59		41.6	SURCHARGED
1.001	21	8	65.973	0.008	0.000	1.01		99.6	SURCHARGED
1.002	22	8	65.448	-0.130	0.000	0.60		126.1	OK
3.000	23	15	62.706	-0.089	0.000	0.11		14.1	OK
3.001	24	15	62.694	0.002	0.000	0.14		20.3	SURCHARGED
3.002	25	15	62.671	0.178	0.000	0.33		35.5	SURCHARGED
1.003	26	15	62.662	0.235	0.000	1.30		163.2	SURCHARGED
1.004	27	19	62.301	0.075	0.000	1.19		190.1	SURCHARGED
4.000	28	8	65.090	-0.181	0.000	0.08		4.7	OK
4.001	29	7	64.786	-0.175	0.000	0.11		10.3	OK
4.002	30	7	63.891	-0.131	0.000	0.37		32.3	OK
4.003	31	7	63.025	0.001	0.000	0.81		30.6	SURCHARGED
4.004	32	7	62.898	0.061	0.000	1.36		47.5	SURCHARGED
4.005	33	11	62.664	-0.096	0.000	0.62		57.5	OK
1.005	34	19	62.168	0.047	0.000	1.73		241.3	SURCHARGED
1.006	35	21	62.110	0.014	0.000	1.06		238.0	SURCHARGED
1.007	36	22	62.065	0.012	0.000	1.29		240.6	SURCHARGED
1.008	37	23	62.033	0.004	0.000	1.20		241.7	SURCHARGED
1.009	38	28	61.996	0.000	0.000	1.17		236.7	OK

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Summary Wizard of 15 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	33	61.786	-0.177	0.000	0.79	229.2		OK
1.011	40	33	61.676	-0.189	0.000	0.79	226.1		OK
1.012	41	34	61.551	-0.228	0.000	0.49	227.6		OK
1.013	42	34	61.510	-0.056	0.000	0.25	94.7		OK
1.014	43	33	61.506	0.079	0.000	0.42	85.6		SURCHARGED
5.000	44	8	64.052	-0.122	0.000	0.42	30.3		OK
5.001	45	8	63.115	0.059	0.000	1.13	64.9		SURCHARGED
5.002	46	11	62.738	-0.123	0.000	0.65	65.1		OK
5.003	47	11	62.610	-0.091	0.000	0.80	86.2		OK
6.000	48	15	62.266	-0.211	0.000	0.19	23.5		OK
5.004	49	16	62.228	0.040	0.000	0.92	104.8		SURCHARGED
5.005	50	20	61.874	0.128	0.000	0.94	115.7		SURCHARGED
7.000	51	29	61.640	0.031	0.000	0.35	22.7		SURCHARGED
7.001	52	32	61.614	0.139	0.000	0.74	47.8		SURCHARGED
1.015	53	33	61.524	0.281	0.000	0.47	65.2		SURCHARGED
1.016	54	34	60.647	-0.551	0.000	0.11	65.1		OK
1.017	55	34	60.515	-0.562	0.000	0.09	65.1		OK
1.018	56	34	60.332	-0.564	0.000	0.11	65.0		OK

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Summary Wizard of 30 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	30	61.826	-0.137	0.000	0.81	237.1		OK
1.011	40	30	61.764	-0.101	0.000	0.84	238.3		OK
1.012	41	30	61.703	-0.076	0.000	0.49	227.3		OK
1.013	42	29	61.632	0.066	0.000	0.18	65.9		SURCHARGED
1.014	43	28	61.624	0.197	0.000	0.31	62.9		SURCHARGED
5.000	44	9	64.048	-0.126	0.000	0.40	28.9		OK
5.001	45	9	63.070	0.014	0.000	1.03	59.0		SURCHARGED
5.002	46	12	62.729	-0.132	0.000	0.59	59.3		OK
5.003	47	12	62.597	-0.104	0.000	0.74	79.4		OK
6.000	48	16	62.262	-0.215	0.000	0.18	22.3		OK
5.004	49	17	62.193	0.005	0.000	0.90	103.5		SURCHARGED
5.005	50	22	61.857	0.111	0.000	0.93	113.4		SURCHARGED
7.000	51	30	61.634	0.025	0.000	0.33	21.1		SURCHARGED
7.001	52	30	61.621	0.146	0.000	0.67	43.2		SURCHARGED
1.015	53	28	61.620	0.377	0.000	0.47	65.2		SURCHARGED
1.016	54	27	60.647	-0.551	0.000	0.11	65.2		OK
1.017	55	28	60.515	-0.562	0.000	0.10	65.2		OK
1.018	56	28	60.333	-0.564	0.000	0.11	65.2		OK

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Summary Wizard of 60 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	24	61.963	0.000	0.000	0.69	201.2		OK
1.011	40	26	61.865	0.000	0.000	0.72	204.9		OK
1.012	41	26	61.802	0.023	0.000	0.41	188.6		SURCHARGED
1.013	42	26	61.676	0.110	0.000	0.18	66.3		SURCHARGED
1.014	43	26	61.665	0.238	0.000	0.31	62.3		SURCHARGED
5.000	44	12	64.035	-0.139	0.000	0.30	21.6		OK
5.001	45	12	62.989	-0.067	0.000	0.80	45.6		OK
5.002	46	14	62.707	-0.154	0.000	0.45	45.1		OK
5.003	47	15	62.570	-0.131	0.000	0.58	62.0		OK
6.000	48	18	62.251	-0.226	0.000	0.14	16.8		OK
5.004	49	21	62.085	-0.103	0.000	0.75	85.7		OK
5.005	50	27	61.719	-0.027	0.000	0.79	97.1		OK
7.000	51	24	61.675	0.066	0.000	0.25	16.2		SURCHARGED
7.001	52	24	61.669	0.194	0.000	0.49	31.7		SURCHARGED
1.015	53	25	61.663	0.420	0.000	0.47	65.2		SURCHARGED
1.016	54	24	60.647	-0.551	0.000	0.11	65.2		OK
1.017	55	23	60.515	-0.562	0.000	0.10	65.2		OK
1.018	56	24	60.333	-0.563	0.000	0.11	65.2		OK

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Summary Wizard of 120 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	25	61.963	0.000	0.000	0.51		149.0	OK
1.011	40	23	61.865	0.000	0.000	0.53		150.4	OK
1.012	41	24	61.830	0.051	0.000	0.30		138.0	SURCHARGED
1.013	42	25	61.677	0.111	0.000	0.17		63.4	SURCHARGED
1.014	43	24	61.669	0.242	0.000	0.31		62.2	SURCHARGED
5.000	44	18	64.018	-0.156	0.000	0.21		14.9	OK
5.001	45	18	62.949	-0.107	0.000	0.54		31.0	OK
5.002	46	18	62.675	-0.186	0.000	0.31		31.0	OK
5.003	47	19	62.531	-0.170	0.000	0.39		41.9	OK
6.000	48	20	62.238	-0.239	0.000	0.09		11.5	OK
5.004	49	23	62.040	-0.148	0.000	0.50		57.7	OK
5.005	50	28	61.689	-0.057	0.000	0.55		68.0	OK
7.000	51	27	61.672	0.063	0.000	0.17		11.0	SURCHARGED
7.001	52	26	61.665	0.190	0.000	0.38		24.5	SURCHARGED
1.015	53	23	61.667	0.424	0.000	0.47		65.2	SURCHARGED
1.016	54	25	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	26	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	25	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow / Overflow	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap. (l/s)	(l/s)	Status
1.000	18	23	69.387	-0.175	0.000	0.11	12.2	OK
2.000	19	23	66.073	-0.224	0.000	0.14	11.6	OK
2.001	20	21	65.852	-0.191	0.000	0.28	19.7	OK
1.001	21	21	65.804	-0.161	0.000	0.43	42.8	OK
1.002	22	21	65.381	-0.197	0.000	0.25	53.2	OK
3.000	23	26	62.473	-0.322	0.000	0.05	6.0	OK
3.001	24	25	62.378	-0.314	0.000	0.06	9.2	OK
3.002	25	26	62.277	-0.216	0.000	0.11	12.0	OK
1.003	26	26	62.271	-0.157	0.000	0.62	78.3	OK
1.004	27	30	62.138	-0.089	0.000	0.59	94.8	OK
4.000	28	23	65.073	-0.198	0.000	0.03	1.9	OK
4.001	29	22	64.766	-0.195	0.000	0.04	3.8	OK
4.002	30	21	63.851	-0.171	0.000	0.13	11.5	OK
4.003	31	21	62.884	-0.140	0.000	0.30	11.5	OK
4.004	32	21	62.728	-0.109	0.000	0.52	18.1	OK
4.005	33	21	62.610	-0.150	0.000	0.24	22.1	OK
1.005	34	30	62.093	-0.028	0.000	0.84	117.3	OK
1.006	35	30	62.061	-0.034	0.000	0.53	119.2	OK
1.007	36	30	62.025	-0.029	0.000	0.64	119.3	OK
1.008	37	30	62.003	-0.025	0.000	0.59	119.2	OK
1.009	38	30	61.971	-0.025	0.000	0.62	124.4	OK

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Summary Wizard of 180 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	27	61.934	-0.029	0.000	0.43		124.5	OK
1.011	40	27	61.849	-0.016	0.000	0.44		125.4	OK
1.012	41	27	61.752	-0.027	0.000	0.25		116.3	OK
1.013	42	27	61.650	0.084	0.000	0.16		61.4	SURCHARGED
1.014	43	27	61.632	0.205	0.000	0.30		60.7	SURCHARGED
5.000	44	23	64.011	-0.163	0.000	0.17		12.1	OK
5.001	45	22	62.935	-0.121	0.000	0.44		25.0	OK
5.002	46	21	62.663	-0.198	0.000	0.25		24.9	OK
5.003	47	21	62.517	-0.184	0.000	0.31		33.6	OK
6.000	48	24	62.231	-0.246	0.000	0.07		9.2	OK
5.004	49	24	62.022	-0.166	0.000	0.40		46.1	OK
5.005	50	30	61.649	-0.097	0.000	0.44		54.1	OK
7.000	51	28	61.642	0.033	0.000	0.15		9.4	SURCHARGED
7.001	52	28	61.637	0.162	0.000	0.31		19.8	SURCHARGED
1.015	53	27	61.626	0.383	0.000	0.47		65.2	SURCHARGED
1.016	54	23	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	22	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	21	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 240 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		(l/s)	Flow (l/s)	
1.000	18	28	69.383	-0.179	0.000	0.09	10.0	OK	
2.000	19	28	66.066	-0.231	0.000	0.12	9.6	OK	
2.001	20	28	65.841	-0.202	0.000	0.23	16.3	OK	
1.001	21	28	65.789	-0.176	0.000	0.36	35.5	OK	
1.002	22	28	65.371	-0.207	0.000	0.21	44.2	OK	
3.000	23	30	62.468	-0.327	0.000	0.04	5.0	OK	
3.001	24	30	62.371	-0.321	0.000	0.05	7.6	OK	
3.002	25	35	62.251	-0.242	0.000	0.09	10.0	OK	
1.003	26	35	62.245	-0.182	0.000	0.52	65.6	OK	
1.004	27	35	62.008	-0.218	0.000	0.50	79.4	OK	
4.000	28	28	65.071	-0.200	0.000	0.03	1.5	OK	
4.001	29	28	64.763	-0.198	0.000	0.03	3.2	OK	
4.002	30	28	63.846	-0.176	0.000	0.11	9.5	OK	
4.003	31	28	62.875	-0.149	0.000	0.25	9.5	OK	
4.004	32	27	62.715	-0.122	0.000	0.43	15.0	OK	
4.005	33	27	62.603	-0.157	0.000	0.20	18.5	OK	
1.005	34	34	61.922	-0.199	0.000	0.70	97.2	OK	
1.006	35	33	61.878	-0.217	0.000	0.44	98.4	OK	
1.007	36	33	61.860	-0.193	0.000	0.53	98.7	OK	
1.008	37	33	61.850	-0.179	0.000	0.50	100.2	OK	
1.009	38	33	61.834	-0.161	0.000	0.52	105.1	OK	

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Summary Wizard of 240 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	32	61.818	-0.146	0.000	0.36		105.1	OK
1.011	40	31	61.758	-0.107	0.000	0.38		107.4	OK
1.012	41	31	61.694	-0.085	0.000	0.22		100.4	OK
1.013	42	31	61.619	0.053	0.000	0.17		61.7	SURCHARGED
1.014	43	31	61.602	0.175	0.000	0.29		58.1	SURCHARGED
5.000	44	28	64.004	-0.170	0.000	0.14		9.9	OK
5.001	45	28	62.924	-0.132	0.000	0.36		20.6	OK
5.002	46	28	62.653	-0.208	0.000	0.21		20.6	OK
5.003	47	28	62.505	-0.196	0.000	0.26		27.9	OK
6.000	48	29	62.225	-0.252	0.000	0.06		7.6	OK
5.004	49	31	62.008	-0.180	0.000	0.34		38.4	OK
5.005	50	33	61.626	-0.120	0.000	0.37		45.3	OK
7.000	51	33	61.618	0.009	0.000	0.12		7.7	SURCHARGED
7.001	52	33	61.611	0.136	0.000	0.26		16.5	SURCHARGED
1.015	53	31	61.595	0.352	0.000	0.47		65.2	SURCHARGED
1.016	54	16	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	16	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	9	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								Status
1.000	18	36	69.376	-0.186	0.000	0.07	7.6	OK
2.000	19	36	66.057	-0.240	0.000	0.09	7.2	OK
2.001	20	35	65.827	-0.216	0.000	0.18	12.3	OK
1.001	21	35	65.771	-0.194	0.000	0.27	26.8	OK
1.002	22	35	65.357	-0.221	0.000	0.16	33.4	OK
3.000	23	36	62.462	-0.333	0.000	0.03	3.7	OK
3.001	24	35	62.364	-0.328	0.000	0.04	5.7	OK
3.002	25	37	62.223	-0.270	0.000	0.07	7.6	OK
1.003	26	37	62.215	-0.212	0.000	0.40	49.7	OK
1.004	27	38	61.967	-0.259	0.000	0.38	60.3	OK
4.000	28	36	65.068	-0.203	0.000	0.02	1.2	OK
4.001	29	35	64.760	-0.201	0.000	0.03	2.4	OK
4.002	30	35	63.840	-0.182	0.000	0.08	7.2	OK
4.003	31	35	62.865	-0.159	0.000	0.19	7.2	OK
4.004	32	35	62.700	-0.137	0.000	0.32	11.3	OK
4.005	33	35	62.593	-0.167	0.000	0.15	13.9	OK
1.005	34	39	61.869	-0.252	0.000	0.53	74.2	OK
1.006	35	39	61.763	-0.332	0.000	0.34	75.5	OK
1.007	36	39	61.726	-0.327	0.000	0.41	76.0	OK
1.008	37	39	61.696	-0.333	0.000	0.38	76.3	OK
1.009	38	38	61.674	-0.322	0.000	0.40	79.8	OK

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Summary Wizard of 360 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	34	61.665	-0.298	0.000	0.27		79.4	OK
1.011	40	34	61.628	-0.237	0.000	0.29		82.7	OK
1.012	41	33	61.589	-0.190	0.000	0.17		80.3	OK
1.013	42	33	61.537	-0.029	0.000	0.15		54.7	OK
1.014	43	34	61.473	0.046	0.000	0.27		55.1	SURCHARGED
5.000	44	36	63.997	-0.177	0.000	0.10		7.5	OK
5.001	45	35	62.910	-0.146	0.000	0.27		15.5	OK
5.002	46	35	62.639	-0.222	0.000	0.16		15.5	OK
5.003	47	35	62.491	-0.210	0.000	0.20		21.1	OK
6.000	48	36	62.218	-0.259	0.000	0.05		5.7	OK
5.004	49	35	61.990	-0.198	0.000	0.25		29.0	OK
5.005	50	39	61.553	-0.193	0.000	0.28		34.2	OK
7.000	51	34	61.486	-0.123	0.000	0.09		6.0	OK
7.001	52	34	61.481	0.006	0.000	0.21		13.5	SURCHARGED
1.015	53	34	61.468	0.224	0.000	0.47		65.2	SURCHARGED
1.016	54	22	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	21	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	20	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet 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 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	
1.000	18	41	69.371	-0.191	0.000	0.06	6.2	OK
2.000	19	41	66.050	-0.247	0.000	0.07	5.9	OK
2.001	20	41	65.818	-0.225	0.000	0.14	10.1	OK
1.001	21	41	65.760	-0.205	0.000	0.22	21.9	OK
1.002	22	41	65.349	-0.229	0.000	0.13	27.2	OK
3.000	23	41	62.459	-0.336	0.000	0.02	3.1	OK
3.001	24	41	62.360	-0.332	0.000	0.03	4.7	OK
3.002	25	42	62.207	-0.286	0.000	0.06	6.2	OK
1.003	26	42	62.198	-0.229	0.000	0.32	40.5	OK
1.004	27	42	61.947	-0.280	0.000	0.31	49.2	OK
4.000	28	41	65.064	-0.207	0.000	0.02	0.9	OK
4.001	29	41	64.759	-0.202	0.000	0.02	1.9	OK
4.002	30	41	63.835	-0.187	0.000	0.07	5.8	OK
4.003	31	41	62.858	-0.166	0.000	0.15	5.8	OK
4.004	32	41	62.690	-0.147	0.000	0.26	9.2	OK
4.005	33	41	62.587	-0.173	0.000	0.12	11.3	OK
1.005	34	42	61.837	-0.284	0.000	0.43	60.5	OK
1.006	35	42	61.735	-0.361	0.000	0.27	61.6	OK
1.007	36	42	61.698	-0.356	0.000	0.33	62.1	OK
1.008	37	41	61.668	-0.361	0.000	0.31	62.5	OK
1.009	38	41	61.631	-0.365	0.000	0.32	65.4	OK

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Summary Wizard of 480 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	43	61.569	-0.395	0.000	0.22		65.4	OK
1.011	40	41	61.509	-0.356	0.000	0.24		69.1	OK
1.012	41	37	61.480	-0.299	0.000	0.15		67.7	OK
1.013	42	37	61.443	-0.123	0.000	0.14		50.7	OK
1.014	43	37	61.409	-0.018	0.000	0.25		51.5	OK
5.000	44	41	63.993	-0.181	0.000	0.08		6.1	OK
5.001	45	41	62.902	-0.154	0.000	0.22		12.7	OK
5.002	46	41	62.631	-0.230	0.000	0.13		12.7	OK
5.003	47	41	62.481	-0.220	0.000	0.16		17.2	OK
6.000	48	41	62.214	-0.263	0.000	0.04		4.7	OK
5.004	49	41	61.980	-0.208	0.000	0.21		23.7	OK
5.005	50	42	61.542	-0.204	0.000	0.23		27.9	OK
7.000	51	41	61.380	-0.229	0.000	0.08		5.0	OK
7.001	52	37	61.370	-0.105	0.000	0.18		11.6	OK
1.015	53	37	61.360	0.117	0.000	0.47		64.7	SURCHARGED
1.016	54	36	60.646	-0.552	0.000	0.11		64.7	OK
1.017	55	36	60.514	-0.562	0.000	0.09		64.7	OK
1.018	56	36	60.332	-0.564	0.000	0.11		64.7	OK

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Summary Wizard of 600 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
1.000	18	45	69.369	-0.193	0.000	0.05	5.3	OK	
2.000	19	45	66.046	-0.251	0.000	0.06	5.0	OK	
2.001	20	45	65.812	-0.231	0.000	0.12	8.6	OK	
1.001	21	45	65.753	-0.212	0.000	0.19	18.7	OK	
1.002	22	45	65.344	-0.234	0.000	0.11	23.2	OK	
3.000	23	45	62.457	-0.338	0.000	0.02	2.6	OK	
3.001	24	45	62.358	-0.334	0.000	0.03	4.0	OK	
3.002	25	45	62.197	-0.296	0.000	0.05	5.3	OK	
1.003	26	45	62.185	-0.242	0.000	0.27	34.5	OK	
1.004	27	45	61.932	-0.294	0.000	0.26	41.9	OK	
4.000	28	45	65.061	-0.210	0.000	0.01	0.8	OK	
4.001	29	45	64.755	-0.206	0.000	0.02	1.7	OK	
4.002	30	45	63.831	-0.191	0.000	0.06	5.0	OK	
4.003	31	45	62.853	-0.171	0.000	0.13	5.0	OK	
4.004	32	45	62.684	-0.153	0.000	0.23	7.9	OK	
4.005	33	45	62.583	-0.177	0.000	0.10	9.7	OK	
1.005	34	44	61.817	-0.304	0.000	0.37	51.6	OK	
1.006	35	44	61.714	-0.382	0.000	0.23	52.6	OK	
1.007	36	44	61.677	-0.376	0.000	0.28	53.0	OK	
1.008	37	44	61.647	-0.381	0.000	0.26	53.4	OK	
1.009	38	45	61.610	-0.386	0.000	0.28	56.0	OK	

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Summary Wizard of 600 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	45	61.552	-0.411	0.000	0.19		56.3	OK
1.011	40	45	61.451	-0.414	0.000	0.21		59.8	OK
1.012	41	38	61.380	-0.399	0.000	0.13		59.4	OK
1.013	42	38	61.355	-0.211	0.000	0.13		47.6	OK
1.014	43	38	61.328	-0.099	0.000	0.24		48.6	OK
5.000	44	45	63.989	-0.185	0.000	0.07		5.2	OK
5.001	45	45	62.897	-0.159	0.000	0.19		10.8	OK
5.002	46	45	62.626	-0.235	0.000	0.11		10.8	OK
5.003	47	45	62.474	-0.227	0.000	0.14		14.6	OK
6.000	48	45	62.212	-0.265	0.000	0.03		4.0	OK
5.004	49	45	61.972	-0.216	0.000	0.18		20.2	OK
5.005	50	45	61.535	-0.211	0.000	0.19		23.8	OK
7.000	51	46	61.359	-0.250	0.000	0.07		4.3	OK
7.001	52	38	61.312	-0.163	0.000	0.15		9.9	OK
1.015	53	38	61.303	0.060	0.000	0.46		64.1	SURCHARGED
1.016	54	38	60.645	-0.553	0.000	0.11		64.1	OK
1.017	55	38	60.513	-0.563	0.000	0.09		64.1	OK
1.018	56	38	60.331	-0.565	0.000	0.11		64.1	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)			
1.000	18	47	69.367	-0.195	0.000	0.04	4.6	OK
2.000	19	47	66.042	-0.255	0.000	0.06	4.4	OK
2.001	20	47	65.808	-0.235	0.000	0.11	7.5	OK
1.001	21	47	65.746	-0.219	0.000	0.17	16.4	OK
1.002	22	47	65.340	-0.238	0.000	0.10	20.4	OK
3.000	23	47	62.452	-0.343	0.000	0.02	2.3	OK
3.001	24	47	62.356	-0.336	0.000	0.02	3.5	OK
3.002	25	47	62.189	-0.304	0.000	0.04	4.6	OK
1.003	26	47	62.176	-0.251	0.000	0.24	30.3	OK
1.004	27	47	61.922	-0.304	0.000	0.23	36.8	OK
4.000	28	47	65.059	-0.212	0.000	0.01	0.7	OK
4.001	29	47	64.753	-0.208	0.000	0.02	1.5	OK
4.002	30	47	63.829	-0.193	0.000	0.05	4.4	OK
4.003	31	47	62.850	-0.174	0.000	0.12	4.4	OK
4.004	32	47	62.680	-0.157	0.000	0.20	6.9	OK
4.005	33	47	62.580	-0.180	0.000	0.09	8.5	OK
1.005	34	47	61.801	-0.320	0.000	0.33	45.3	OK
1.006	35	47	61.699	-0.396	0.000	0.20	46.2	OK
1.007	36	47	61.662	-0.391	0.000	0.25	46.5	OK
1.008	37	48	61.632	-0.396	0.000	0.23	46.9	OK
1.009	38	48	61.596	-0.400	0.000	0.24	49.2	OK

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Summary Wizard of 720 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)		
1.010	39	48	61.540	-0.424	0.000	0.17		49.4	OK
1.011	40	49	61.438	-0.427	0.000	0.18		52.5	OK
1.012	41	47	61.320	-0.459	0.000	0.11		52.5	OK
1.013	42	40	61.278	-0.288	0.000	0.12		44.8	OK
1.014	43	40	61.255	-0.172	0.000	0.22		45.5	OK
5.000	44	47	63.986	-0.188	0.000	0.06		4.6	OK
5.001	45	47	62.892	-0.164	0.000	0.17		9.5	OK
5.002	46	47	62.623	-0.238	0.000	0.09		9.5	OK
5.003	47	47	62.470	-0.231	0.000	0.12		12.8	OK
6.000	48	47	62.210	-0.267	0.000	0.03		3.5	OK
5.004	49	47	61.966	-0.222	0.000	0.15		17.7	OK
5.005	50	47	61.529	-0.217	0.000	0.17		20.9	OK
7.000	51	48	61.355	-0.254	0.000	0.06		3.7	OK
7.001	52	47	61.263	-0.212	0.000	0.14		8.9	OK
1.015	53	40	61.238	-0.005	0.000	0.45		63.0	OK
1.016	54	40	60.644	-0.554	0.000	0.11		62.9	OK
1.017	55	40	60.512	-0.564	0.000	0.09		62.9	OK
1.018	56	40	60.330	-0.566	0.000	0.11		62.9	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe		
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow	
								Status	
1.000	18	53	69.364	-0.198	0.000	0.03		3.8	OK
2.000	19	53	66.038	-0.259	0.000	0.04		3.6	OK
2.001	20	53	65.803	-0.240	0.000	0.09		6.1	OK
1.001	21	53	65.738	-0.227	0.000	0.13		13.3	OK
1.002	22	53	65.334	-0.244	0.000	0.08		16.6	OK
3.000	23	53	62.446	-0.349	0.000	0.01		1.9	OK
3.001	24	53	62.351	-0.341	0.000	0.02		2.8	OK
3.002	25	53	62.179	-0.314	0.000	0.04		3.8	OK
1.003	26	53	62.164	-0.263	0.000	0.20		24.7	OK
1.004	27	53	61.907	-0.319	0.000	0.19		29.9	OK
4.000	28	53	65.057	-0.214	0.000	0.01		0.6	OK
4.001	29	53	64.750	-0.211	0.000	0.01		1.2	OK
4.002	30	53	63.826	-0.196	0.000	0.04		3.6	OK
4.003	31	53	62.845	-0.179	0.000	0.09		3.6	OK
4.004	32	53	62.672	-0.165	0.000	0.16		5.6	OK
4.005	33	53	62.575	-0.185	0.000	0.07		6.9	OK
1.005	34	53	61.779	-0.342	0.000	0.26		36.8	OK
1.006	35	53	61.679	-0.417	0.000	0.17		37.5	OK
1.007	36	53	61.642	-0.412	0.000	0.20		37.8	OK
1.008	37	53	61.613	-0.416	0.000	0.19		38.1	OK
1.009	38	53	61.576	-0.419	0.000	0.20		40.0	OK

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Summary Wizard of 960 minute 30 year Summer I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
1.010	39	53	61.520	-0.443	0.000	0.14	40.2	OK
1.011	40	53	61.419	-0.446	0.000	0.15	42.8	OK
1.012	41	53	61.301	-0.478	0.000	0.09	42.8	OK
1.013	42	49	61.176	-0.390	0.000	0.11	39.9	OK
1.014	43	49	61.158	-0.269	0.000	0.20	40.5	OK
5.000	44	53	63.982	-0.192	0.000	0.05	3.7	OK
5.001	45	53	62.886	-0.170	0.000	0.13	7.7	OK
5.002	46	53	62.616	-0.245	0.000	0.08	7.7	OK
5.003	47	53	62.463	-0.238	0.000	0.10	10.5	OK
6.000	48	53	62.208	-0.269	0.000	0.02	2.8	OK
5.004	49	53	61.958	-0.230	0.000	0.13	14.4	OK
5.005	50	53	61.520	-0.226	0.000	0.14	17.0	OK
7.000	51	53	61.351	-0.258	0.000	0.05	3.0	OK
7.001	52	53	61.242	-0.233	0.000	0.11	7.2	OK
1.015	53	48	61.157	-0.086	0.000	0.43	59.5	OK
1.016	54	49	60.640	-0.558	0.000	0.10	59.5	OK
1.017	55	49	60.508	-0.568	0.000	0.09	59.6	OK
1.018	56	49	60.326	-0.570	0.000	0.10	59.6	OK

Summary Wizard of 15 minute 100 year Summer I+30% for SW NET 2 10.10.18.SWS

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet 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		

Synthetic Rainfall Details

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

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Summary Wizard of 15 minute 100 year Summer I+30% for SW NET 2 10.10.18.SWS

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)	
1.010	39	19	62.031	0.068	0.000	1.21	352.1	SURCHARGED	
1.011	40	19	62.003	0.138	0.000	1.25	357.6	SURCHARGED	
1.012	41	19	61.991	0.212	0.000	0.72	331.3	SURCHARGED	
1.013	42	19	61.857	0.291	0.000	0.20	73.0	SURCHARGED	
1.014	43	18	61.872	0.445	0.000	0.36	73.5	SURCHARGED	
5.000	44	2	64.209	0.035	0.000	0.69	49.8	SURCHARGED	
5.001	45	3	63.831	0.775	0.000	1.58	90.7	SURCHARGED	
5.002	46	3	63.487	0.626	0.000	0.78	78.6	SURCHARGED	
5.003	47	3	63.349	0.648	0.000	0.95	101.9	SURCHARGED	
6.000	48	3	63.008	0.531	0.000	0.27	33.9	SURCHARGED	
5.004	49	6	62.913	0.725	0.000	1.20	137.8	SURCHARGED	
5.005	50	13	62.308	0.562	0.000	1.26	154.8	SURCHARGED	
7.000	51	17	61.972	0.363	0.000	0.57	37.1	SURCHARGED	
7.001	52	18	61.914	0.439	0.000	1.32	84.9	SURCHARGED	
1.015	53	18	61.865	0.622	0.000	0.47	65.2	SURCHARGED	
1.016	54	28	60.647	-0.551	0.000	0.11	65.2	OK	
1.017	55	27	60.515	-0.562	0.000	0.10	65.2	OK	
1.018	56	27	60.333	-0.564	0.000	0.11	65.2	OK	

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Summary Wizard of 30 minute 100 year Summer I+30% for SW NET 2 10.10.18.SWS

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)	
1.010	39	13	62.289	0.326	0.000	1.22	355.5	SURCHARGED	
1.011	40	13	62.279	0.414	0.000	1.27	361.4	SURCHARGED	
1.012	41	13	62.270	0.491	0.000	0.74	340.6	SURCHARGED	
1.013	42	13	62.125	0.559	0.000	0.16	61.3	SURCHARGED	
1.014	43	12	62.139	0.712	0.000	0.30	61.8	SURCHARGED	
5.000	44	3	64.175	0.001	0.000	0.67	48.5	SURCHARGED	
5.001	45	2	63.833	0.777	0.000	1.52	87.0	SURCHARGED	
5.002	46	2	63.496	0.635	0.000	0.76	75.8	SURCHARGED	
5.003	47	2	63.365	0.664	0.000	0.91	97.8	SURCHARGED	
6.000	48	4	62.996	0.519	0.000	0.25	31.4	SURCHARGED	
5.004	49	4	62.930	0.742	0.000	1.18	135.4	SURCHARGED	
5.005	50	12	62.328	0.582	0.000	1.27	155.4	SURCHARGED	
7.000	51	12	62.142	0.533	0.000	0.56	36.4	SURCHARGED	
7.001	52	12	62.146	0.671	0.000	1.33	85.7	SURCHARGED	
1.015	53	12	62.149	0.906	0.000	0.47	65.2	SURCHARGED	
1.016	54	32	60.647	-0.551	0.000	0.11	65.1	OK	
1.017	55	33	60.515	-0.562	0.000	0.09	65.1	OK	
1.018	56	33	60.332	-0.564	0.000	0.11	65.0	OK	

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Summary Wizard of 60 minute 100 year Summer I+30% for SW NET 2 10.10.18.SWS

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)	
1.010	39	9	62.506	0.543	0.000	1.08	313.0	SURCHARGED	
1.011	40	9	62.496	0.631	0.000	1.11	316.5	SURCHARGED	
1.012	41	9	62.486	0.707	0.000	0.68	313.4	SURCHARGED	
1.013	42	9	62.332	0.766	0.000	0.16	61.5	SURCHARGED	
1.014	43	4	62.508	1.081	0.000	0.30	62.0	SURCHARGED	
5.000	44	5	64.066	-0.108	0.000	0.51	36.9	OK	
5.001	45	5	63.401	0.345	0.000	1.28	73.6	SURCHARGED	
5.002	46	6	63.171	0.310	0.000	0.68	67.7	SURCHARGED	
5.003	47	6	63.058	0.357	0.000	0.82	88.0	SURCHARGED	
6.000	48	6	62.900	0.423	0.000	0.19	23.9	SURCHARGED	
5.004	49	3	62.949	0.761	0.000	0.98	112.3	SURCHARGED	
5.005	50	3	62.779	1.033	0.000	1.08	132.2	SURCHARGED	
7.000	51	4	62.547	0.938	0.000	0.44	28.2	SURCHARGED	
7.001	52	5	62.491	1.016	0.000	1.04	66.8	SURCHARGED	
1.015	53	3	62.609	1.366	0.000	0.47	65.2	SURCHARGED	
1.016	54	13	60.647	-0.551	0.000	0.11	65.2	OK	
1.017	55	15	60.515	-0.562	0.000	0.10	65.2	OK	
1.018	56	22	60.333	-0.563	0.000	0.11	65.2	OK	

Summary Wizard of 120 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

Simulation Criteria

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

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded			Pipe	Status
			Level	Depth	Volume	Flow /	Overflow	Flow	
			(m)	(m)	(m³)	Cap.	(l/s)	(l/s)	
1.000	18	11	69.411	-0.151	0.000	0.24		25.8	OK
2.000	19	11	66.111	-0.186	0.000	0.31		24.5	OK
2.001	20	11	65.928	-0.115	0.000	0.60		41.8	OK
1.001	21	11	65.893	-0.072	0.000	0.92		91.1	OK
1.002	22	11	65.436	-0.142	0.000	0.54		113.3	OK
3.000	23	10	62.796	0.001	0.000	0.09		10.9	SURCHARGED
3.001	24	10	62.790	0.098	0.000	0.11		16.7	SURCHARGED
3.002	25	11	62.775	0.282	0.000	0.20		22.0	SURCHARGED
1.003	26	11	62.765	0.337	0.000	1.24		156.2	SURCHARGED
1.004	27	10	62.699	0.473	0.000	1.17		186.6	SURCHARGED
4.000	28	11	65.085	-0.186	0.000	0.07		4.0	OK
4.001	29	11	64.781	-0.180	0.000	0.09		8.1	OK
4.002	30	11	63.878	-0.144	0.000	0.28		24.5	OK
4.003	31	11	62.931	-0.093	0.000	0.65		24.5	OK
4.004	32	11	62.845	0.008	0.000	1.11		38.7	SURCHARGED
4.005	33	14	62.649	-0.111	0.000	0.51		47.6	OK
1.005	34	9	62.602	0.481	0.000	1.65		229.2	SURCHARGED
1.006	35	5	62.595	0.500	0.000	1.02		230.5	SURCHARGED
1.007	36	5	62.589	0.535	0.000	1.22		228.8	SURCHARGED
1.008	37	5	62.584	0.555	0.000	1.11		224.2	SURCHARGED

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Summary Wizard of 120 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

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)	
1.009	38	5	62.578	0.582	0.000	1.15	232.0	SURCHARGED	
1.010	39	5	62.571	0.608	0.000	0.80	233.1	SURCHARGED	
1.011	40	5	62.562	0.697	0.000	0.86	245.7	SURCHARGED	
1.012	41	5	62.552	0.773	0.000	0.53	242.9	SURCHARGED	
1.013	42	5	62.415	0.849	0.000	0.17	64.6	SURCHARGED	
1.014	43	7	62.402	0.975	0.000	0.31	63.1	SURCHARGED	
5.000	44	11	64.041	-0.133	0.000	0.35	25.5	OK	
5.001	45	11	63.002	-0.054	0.000	0.93	53.0	OK	
5.002	46	8	62.877	0.016	0.000	0.53	52.6	SURCHARGED	
5.003	47	9	62.728	0.027	0.000	0.65	69.2	SURCHARGED	
6.000	48	9	62.620	0.143	0.000	0.15	18.3	SURCHARGED	
5.004	49	9	62.635	0.447	0.000	0.73	83.4	SURCHARGED	
5.005	50	8	62.465	0.719	0.000	0.75	91.8	SURCHARGED	
7.000	51	6	62.408	0.799	0.000	0.24	15.6	SURCHARGED	
7.001	52	6	62.413	0.938	0.000	0.60	38.9	SURCHARGED	
1.015	53	7	62.398	1.155	0.000	0.47	65.2	SURCHARGED	
1.016	54	10	60.647	-0.551	0.000	0.11	65.2	OK	
1.017	55	8	60.515	-0.562	0.000	0.10	65.2	OK	
1.018	56	14	60.333	-0.563	0.000	0.11	65.2	OK	

Summary Wizard of 180 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

Simulation Criteria

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

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
1.000	18	13	69.403	-0.159	0.000	0.19	20.8	OK
2.000	19	13	66.098	-0.199	0.000	0.25	19.7	OK
2.001	20	13	65.897	-0.146	0.000	0.48	33.5	OK
1.001	21	13	65.860	-0.105	0.000	0.74	72.8	OK
1.002	22	13	65.417	-0.161	0.000	0.43	90.4	OK
3.000	23	11	62.784	-0.011	0.000	0.08	10.0	OK
3.001	24	11	62.782	0.090	0.000	0.09	13.9	SURCHARGED
3.002	25	10	62.779	0.286	0.000	0.16	17.4	SURCHARGED
1.003	26	10	62.777	0.350	0.000	1.01	127.2	SURCHARGED
1.004	27	11	62.677	0.451	0.000	0.96	152.5	SURCHARGED
4.000	28	13	65.080	-0.191	0.000	0.06	3.2	OK
4.001	29	13	64.776	-0.185	0.000	0.07	6.5	OK
4.002	30	13	63.869	-0.153	0.000	0.22	19.6	OK
4.003	31	13	62.915	-0.109	0.000	0.52	19.5	OK
4.004	32	15	62.778	-0.059	0.000	0.88	30.7	OK
4.005	33	16	62.635	-0.125	0.000	0.40	37.7	OK
1.005	34	10	62.582	0.461	0.000	1.35	188.1	SURCHARGED
1.006	35	7	62.575	0.480	0.000	0.83	186.2	SURCHARGED
1.007	36	6	62.568	0.514	0.000	0.99	186.2	SURCHARGED
1.008	37	6	62.563	0.534	0.000	0.92	186.2	SURCHARGED

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Summary Wizard of 180 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

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)	
1.009	38	6	62.557	0.561	0.000	0.96		193.3	SURCHARGED
1.010	39	6	62.550	0.587	0.000	0.65		189.0	SURCHARGED
1.011	40	6	62.540	0.675	0.000	0.68		193.3	SURCHARGED
1.012	41	6	62.530	0.751	0.000	0.41		191.3	SURCHARGED
1.013	42	6	62.389	0.823	0.000	0.17		64.3	SURCHARGED
1.014	43	6	62.416	0.989	0.000	0.31		63.0	SURCHARGED
5.000	44	13	64.031	-0.143	0.000	0.28		20.5	OK
5.001	45	14	62.977	-0.079	0.000	0.74		42.5	OK
5.002	46	15	62.698	-0.163	0.000	0.42		42.3	OK
5.003	47	13	62.587	-0.114	0.000	0.53		57.1	OK
6.000	48	11	62.515	0.038	0.000	0.13		15.7	SURCHARGED
5.004	49	11	62.462	0.274	0.000	0.62		71.3	SURCHARGED
5.005	50	5	62.642	0.896	0.000	0.65		79.7	SURCHARGED
7.000	51	7	62.391	0.782	0.000	0.22		14.1	SURCHARGED
7.001	52	7	62.411	0.936	0.000	0.52		33.6	SURCHARGED
1.015	53	6	62.412	1.169	0.000	0.47		65.2	SURCHARGED
1.016	54	9	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	12	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	10	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 240 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

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
1.009	38	8	62.517	0.521	0.000	0.80		161.6	SURCHARGED
1.010	39	8	62.510	0.547	0.000	0.56		162.6	SURCHARGED
1.011	40	8	62.501	0.636	0.000	0.60		172.0	SURCHARGED
1.012	41	8	62.491	0.712	0.000	0.37		170.3	SURCHARGED
1.013	42	8	62.347	0.781	0.000	0.17		63.7	SURCHARGED
1.014	43	8	62.335	0.908	0.000	0.31		62.6	SURCHARGED
5.000	44	16	64.022	-0.152	0.000	0.23		16.8	OK
5.001	45	16	62.958	-0.098	0.000	0.61		34.8	OK
5.002	46	17	62.683	-0.178	0.000	0.35		34.8	OK
5.003	47	18	62.540	-0.161	0.000	0.44		47.1	OK
6.000	48	12	62.448	-0.029	0.000	0.10		12.8	OK
5.004	49	12	62.429	0.241	0.000	0.54		61.3	SURCHARGED
5.005	50	10	62.345	0.599	0.000	0.55		67.7	SURCHARGED
7.000	51	8	62.341	0.732	0.000	0.19		12.3	SURCHARGED
7.001	52	9	62.338	0.863	0.000	0.42		27.3	SURCHARGED
1.015	53	9	62.331	1.088	0.000	0.47		65.2	SURCHARGED
1.016	54	12	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	11	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	15	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 360 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		(l/s)	Flow (l/s)	
1.009	38	11	62.413	0.417	0.000	0.60		120.8	SURCHARGED
1.010	39	11	62.407	0.444	0.000	0.42		122.5	SURCHARGED
1.011	40	11	62.397	0.532	0.000	0.45		128.8	SURCHARGED
1.012	41	11	62.388	0.609	0.000	0.28		127.3	SURCHARGED
1.013	42	11	62.237	0.671	0.000	0.17		63.2	SURCHARGED
1.014	43	11	62.205	0.778	0.000	0.31		62.2	SURCHARGED
5.000	44	21	64.012	-0.162	0.000	0.17		12.6	OK
5.001	45	19	62.937	-0.119	0.000	0.46		26.1	OK
5.002	46	19	62.664	-0.197	0.000	0.26		26.1	OK
5.003	47	20	62.519	-0.182	0.000	0.33		35.3	OK
6.000	48	23	62.232	-0.245	0.000	0.08		9.6	OK
5.004	49	15	62.229	0.041	0.000	0.42		48.3	SURCHARGED
5.005	50	14	62.235	0.489	0.000	0.44		53.6	SURCHARGED
7.000	51	11	62.209	0.600	0.000	0.14		9.0	SURCHARGED
7.001	52	11	62.206	0.731	0.000	0.33		21.4	SURCHARGED
1.015	53	11	62.199	0.956	0.000	0.47		65.2	SURCHARGED
1.016	54	3	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	2	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	4	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 480 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

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)	
1.009	38	14	62.290	0.294	0.000	0.49		99.5	SURCHARGED
1.010	39	14	62.283	0.320	0.000	0.33		97.5	SURCHARGED
1.011	40	14	62.274	0.409	0.000	0.35		100.6	SURCHARGED
1.012	41	14	62.264	0.485	0.000	0.21		97.6	SURCHARGED
1.013	42	14	62.118	0.552	0.000	0.16		59.6	SURCHARGED
1.014	43	14	62.061	0.634	0.000	0.28		56.9	SURCHARGED
5.000	44	27	64.005	-0.169	0.000	0.14		10.2	OK
5.001	45	27	62.925	-0.131	0.000	0.37		21.1	OK
5.002	46	27	62.654	-0.207	0.000	0.21		21.1	OK
5.003	47	27	62.506	-0.195	0.000	0.27		28.6	OK
6.000	48	28	62.226	-0.251	0.000	0.06		7.8	OK
5.004	49	19	62.132	-0.056	0.000	0.34		39.5	OK
5.005	50	16	62.101	0.355	0.000	0.37		45.0	SURCHARGED
7.000	51	14	62.104	0.495	0.000	0.12		7.8	SURCHARGED
7.001	52	14	62.094	0.619	0.000	0.28		18.1	SURCHARGED
1.015	53	14	62.054	0.811	0.000	0.47		65.2	SURCHARGED
1.016	54	6	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	10	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	6	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 600 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

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)	
1.009	38	16	62.170	0.175	0.000	0.42		85.4	SURCHARGED
1.010	39	15	62.164	0.201	0.000	0.29		84.1	SURCHARGED
1.011	40	15	62.153	0.288	0.000	0.30		84.4	SURCHARGED
1.012	41	15	62.143	0.364	0.000	0.17		78.9	SURCHARGED
1.013	42	15	61.992	0.426	0.000	0.16		58.9	SURCHARGED
1.014	43	15	61.982	0.555	0.000	0.28		57.6	SURCHARGED
5.000	44	32	64.000	-0.174	0.000	0.12		8.7	OK
5.001	45	32	62.917	-0.139	0.000	0.31		17.9	OK
5.002	46	32	62.646	-0.215	0.000	0.18		17.9	OK
5.003	47	32	62.497	-0.204	0.000	0.23		24.3	OK
6.000	48	32	62.221	-0.256	0.000	0.05		6.6	OK
5.004	49	29	62.013	-0.175	0.000	0.29		33.5	OK
5.005	50	17	61.994	0.248	0.000	0.31		38.5	SURCHARGED
7.000	51	16	61.990	0.381	0.000	0.10		6.3	SURCHARGED
7.001	52	16	61.985	0.510	0.000	0.23		15.1	SURCHARGED
1.015	53	16	61.977	0.734	0.000	0.47		65.2	SURCHARGED
1.016	54	1	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	7	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	13	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 720 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

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)	
1.009	38	19	62.046	0.050	0.000	0.38		76.3	SURCHARGED
1.010	39	18	62.038	0.075	0.000	0.26		75.3	SURCHARGED
1.011	40	18	62.028	0.163	0.000	0.27		77.1	SURCHARGED
1.012	41	18	62.017	0.238	0.000	0.16		72.8	SURCHARGED
1.013	42	18	61.869	0.303	0.000	0.15		57.4	SURCHARGED
1.014	43	19	61.849	0.422	0.000	0.28		56.6	SURCHARGED
5.000	44	34	63.997	-0.177	0.000	0.10		7.6	OK
5.001	45	34	62.911	-0.145	0.000	0.27		15.7	OK
5.002	46	34	62.640	-0.221	0.000	0.16		15.7	OK
5.003	47	34	62.491	-0.210	0.000	0.20		21.3	OK
6.000	48	34	62.218	-0.259	0.000	0.05		5.8	OK
5.004	49	34	61.991	-0.197	0.000	0.26		29.3	OK
5.005	50	21	61.869	0.123	0.000	0.28		33.8	SURCHARGED
7.000	51	19	61.860	0.251	0.000	0.09		5.6	SURCHARGED
7.001	52	19	61.853	0.378	0.000	0.20		12.8	SURCHARGED
1.015	53	19	61.848	0.605	0.000	0.47		65.2	SURCHARGED
1.016	54	2	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	1	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	2	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 960 minute 100 year Summer I+30% for SW NET 2
10.10.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of 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	0.300
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
1.000	18	40	69.371	-0.191	0.000	0.06	6.2	OK
2.000	19	40	66.050	-0.247	0.000	0.07	5.9	OK
2.001	20	40	65.818	-0.225	0.000	0.14	10.1	OK
1.001	21	40	65.760	-0.205	0.000	0.22	21.9	OK
1.002	22	40	65.349	-0.229	0.000	0.13	27.2	OK
3.000	23	40	62.459	-0.336	0.000	0.02	3.1	OK
3.001	24	40	62.360	-0.332	0.000	0.03	4.7	OK
3.002	25	41	62.207	-0.286	0.000	0.06	6.2	OK
1.003	26	41	62.198	-0.229	0.000	0.32	40.5	OK
1.004	27	31	62.116	-0.110	0.000	0.31	49.2	OK
4.000	28	40	65.064	-0.207	0.000	0.02	0.9	OK
4.001	29	40	64.759	-0.202	0.000	0.02	1.9	OK
4.002	30	40	63.835	-0.187	0.000	0.07	5.8	OK
4.003	31	40	62.858	-0.166	0.000	0.15	5.8	OK
4.004	32	40	62.690	-0.147	0.000	0.26	9.2	OK
4.005	33	40	62.587	-0.173	0.000	0.12	11.3	OK
1.005	34	31	62.041	-0.080	0.000	0.43	60.5	OK
1.006	35	31	62.018	-0.077	0.000	0.27	61.6	OK
1.007	36	31	61.985	-0.069	0.000	0.33	61.9	OK
1.008	37	31	61.965	-0.063	0.000	0.31	62.2	OK

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Summary Wizard of 960 minute 100 year Summer I+30% for SW NET 2
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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)	Status
1.009	38	31	61.937	-0.059	0.000	0.32		65.0	OK
1.010	39	28	61.907	-0.056	0.000	0.22		64.8	OK
1.011	40	28	61.824	-0.041	0.000	0.23		66.3	OK
1.012	41	28	61.740	-0.039	0.000	0.14		63.5	OK
1.013	42	28	61.638	0.072	0.000	0.14		53.7	SURCHARGED
1.014	43	30	61.607	0.180	0.000	0.26		53.7	SURCHARGED
5.000	44	40	63.993	-0.181	0.000	0.08		6.1	OK
5.001	45	40	62.902	-0.154	0.000	0.22		12.7	OK
5.002	46	40	62.631	-0.230	0.000	0.13		12.7	OK
5.003	47	40	62.481	-0.220	0.000	0.16		17.2	OK
6.000	48	40	62.214	-0.263	0.000	0.04		4.7	OK
5.004	49	40	61.980	-0.208	0.000	0.21		23.7	OK
5.005	50	32	61.627	-0.119	0.000	0.23		27.9	OK
7.000	51	31	61.625	0.016	0.000	0.08		4.9	SURCHARGED
7.001	52	31	61.615	0.140	0.000	0.17		10.8	SURCHARGED
1.015	53	30	61.600	0.357	0.000	0.47		65.2	SURCHARGED
1.016	54	19	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	18	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	16	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 15 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet 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 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
1.000	18	19	69.389	-0.173	0.000	0.12	13.2	OK	
2.000	19	19	66.077	-0.220	0.000	0.16	12.5	OK	
2.001	20	22	65.852	-0.191	0.000	0.29	20.0	OK	
1.001	21	22	65.804	-0.161	0.000	0.43	42.8	OK	
1.002	22	23	65.379	-0.199	0.000	0.25	51.9	OK	
3.000	23	24	62.475	-0.320	0.000	0.05	6.6	OK	
3.001	24	24	62.379	-0.313	0.000	0.06	9.5	OK	
3.002	25	28	62.269	-0.224	0.000	0.11	11.8	OK	
1.003	26	28	62.263	-0.164	0.000	0.59	74.8	OK	
1.004	27	32	62.022	-0.204	0.000	0.54	86.6	OK	
4.000	28	19	65.074	-0.197	0.000	0.04	2.0	OK	
4.001	29	21	64.766	-0.195	0.000	0.04	3.8	OK	
4.002	30	23	63.850	-0.172	0.000	0.12	10.9	OK	
4.003	31	23	62.882	-0.142	0.000	0.29	10.9	OK	
4.004	32	23	62.723	-0.114	0.000	0.48	16.7	OK	
4.005	33	23	62.607	-0.153	0.000	0.22	20.4	OK	
1.005	34	32	61.938	-0.183	0.000	0.75	104.8	OK	
1.006	35	34	61.817	-0.278	0.000	0.47	105.7	OK	
1.007	36	34	61.780	-0.274	0.000	0.56	105.3	OK	
1.008	37	34	61.748	-0.280	0.000	0.52	105.0	OK	
1.009	38	34	61.709	-0.286	0.000	0.54	108.4	OK	

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Summary Wizard of 15 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
1.010	39	35	61.628	-0.336	0.000	0.37	106.9	OK
1.011	40	37	61.522	-0.343	0.000	0.38	108.5	OK
1.012	41	39	61.375	-0.404	0.000	0.23	108.3	OK
1.013	42	50	61.162	-0.404	0.000	0.15	57.8	OK
1.014	43	50	61.140	-0.287	0.000	0.28	56.6	OK
5.000	44	19	64.014	-0.160	0.000	0.18	13.0	OK
5.001	45	21	62.936	-0.120	0.000	0.44	25.0	OK
5.002	46	22	62.663	-0.198	0.000	0.25	25.0	OK
5.003	47	23	62.515	-0.186	0.000	0.30	32.5	OK
6.000	48	21	62.234	-0.243	0.000	0.08	10.0	OK
5.004	49	26	62.019	-0.169	0.000	0.39	45.1	OK
5.005	50	34	61.584	-0.162	0.000	0.43	52.4	OK
7.000	51	37	61.391	-0.218	0.000	0.16	10.6	OK
7.001	52	40	61.298	-0.177	0.000	0.35	22.5	OK
1.015	53	50	61.128	-0.115	0.000	0.43	59.6	OK
1.016	54	53	60.639	-0.560	0.000	0.10	58.9	OK
1.017	55	52	60.507	-0.569	0.000	0.09	58.8	OK
1.018	56	52	60.325	-0.571	0.000	0.10	58.7	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow / Overflow	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap. (l/s)	(l/s)	Status
1.000	18	26	69.384	-0.178	0.000	0.10	10.8	OK
2.000	19	26	66.068	-0.229	0.000	0.13	10.2	OK
2.001	20	26	65.843	-0.200	0.000	0.24	16.9	OK
1.001	21	26	65.792	-0.173	0.000	0.37	36.8	OK
1.002	22	27	65.372	-0.206	0.000	0.22	45.3	OK
3.000	23	29	62.470	-0.325	0.000	0.04	5.4	OK
3.001	24	29	62.373	-0.319	0.000	0.05	7.9	OK
3.002	25	34	62.252	-0.241	0.000	0.10	10.2	OK
1.003	26	34	62.247	-0.180	0.000	0.53	66.2	OK
1.004	27	36	62.004	-0.222	0.000	0.49	78.0	OK
4.000	28	26	65.071	-0.200	0.000	0.03	1.7	OK
4.001	29	26	64.763	-0.198	0.000	0.04	3.3	OK
4.002	30	27	63.846	-0.176	0.000	0.11	9.6	OK
4.003	31	27	62.876	-0.148	0.000	0.25	9.6	OK
4.004	32	28	62.715	-0.122	0.000	0.43	15.0	OK
4.005	33	28	62.603	-0.157	0.000	0.20	18.3	OK
1.005	34	37	61.917	-0.204	0.000	0.69	95.7	OK
1.006	35	37	61.802	-0.294	0.000	0.43	96.2	OK
1.007	36	37	61.765	-0.289	0.000	0.52	96.6	OK
1.008	37	37	61.733	-0.295	0.000	0.48	96.7	OK
1.009	38	37	61.695	-0.300	0.000	0.50	100.2	OK

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Summary Wizard of 30 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Flooded		Pipe	
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.010	39	36	61.618	-0.345	0.000	0.34		99.4	OK
1.011	40	38	61.514	-0.351	0.000	0.36		102.6	OK
1.012	41	40	61.370	-0.409	0.000	0.22		102.8	OK
1.013	42	42	61.222	-0.344	0.000	0.15		54.4	OK
1.014	43	43	61.206	-0.221	0.000	0.27		56.0	OK
5.000	44	26	64.006	-0.168	0.000	0.15		10.7	OK
5.001	45	26	62.926	-0.130	0.000	0.37		21.2	OK
5.002	46	26	62.655	-0.206	0.000	0.21		21.3	OK
5.003	47	26	62.506	-0.195	0.000	0.27		28.5	OK
6.000	48	27	62.227	-0.250	0.000	0.07		8.2	OK
5.004	49	30	62.009	-0.179	0.000	0.34		39.1	OK
5.005	50	37	61.573	-0.173	0.000	0.37		45.7	OK
7.000	51	40	61.382	-0.227	0.000	0.13		8.7	OK
7.001	52	43	61.288	-0.187	0.000	0.31		19.7	OK
1.015	53	43	61.192	-0.051	0.000	0.44		61.8	OK
1.016	54	42	60.642	-0.556	0.000	0.11		61.6	OK
1.017	55	43	60.510	-0.566	0.000	0.09		61.5	OK
1.018	56	43	60.328	-0.568	0.000	0.10		61.5	OK

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Summary Wizard of 60 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Flooded		Pipe	
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.010	39	42	61.586	-0.377	0.000	0.27		77.5	OK
1.011	40	43	61.484	-0.381	0.000	0.29		81.4	OK
1.012	41	45	61.348	-0.431	0.000	0.18		81.6	OK
1.013	42	41	61.246	-0.320	0.000	0.14		50.9	OK
1.014	43	41	61.227	-0.200	0.000	0.26		52.5	OK
5.000	44	35	63.997	-0.177	0.000	0.10		7.5	OK
5.001	45	36	62.910	-0.146	0.000	0.27		15.4	OK
5.002	46	36	62.639	-0.222	0.000	0.15		15.4	OK
5.003	47	37	62.490	-0.211	0.000	0.19		20.8	OK
6.000	48	35	62.218	-0.259	0.000	0.05		5.7	OK
5.004	49	37	61.989	-0.199	0.000	0.25		28.7	OK
5.005	50	40	61.553	-0.193	0.000	0.27		33.7	OK
7.000	51	43	61.371	-0.238	0.000	0.09		6.1	OK
7.001	52	45	61.271	-0.204	0.000	0.22		14.4	OK
1.015	53	41	61.215	-0.028	0.000	0.45		62.3	OK
1.016	54	41	60.643	-0.555	0.000	0.11		62.2	OK
1.017	55	41	60.511	-0.565	0.000	0.09		62.2	OK
1.018	56	41	60.329	-0.567	0.000	0.10		62.2	OK

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Summary Wizard of 120 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged			Flow / Cap.	Overflow (l/s)	Pipe	
			Level (m)	Depth (m)	Volume (m ³)			Flow (l/s)	Status
1.010	39	47	61.547	-0.416	0.000	0.18		53.7	OK
1.011	40	47	61.447	-0.418	0.000	0.20		56.7	OK
1.012	41	49	61.319	-0.460	0.000	0.12		56.5	OK
1.013	42	46	61.202	-0.364	0.000	0.13		47.3	OK
1.014	43	46	61.184	-0.243	0.000	0.24		48.5	OK
5.000	44	46	63.988	-0.186	0.000	0.07		5.0	OK
5.001	45	46	62.896	-0.160	0.000	0.18		10.4	OK
5.002	46	46	62.625	-0.236	0.000	0.10		10.4	OK
5.003	47	46	62.473	-0.228	0.000	0.13		14.1	OK
6.000	48	46	62.211	-0.266	0.000	0.03		3.8	OK
5.004	49	46	61.971	-0.217	0.000	0.17		19.4	OK
5.005	50	46	61.534	-0.212	0.000	0.19		22.8	OK
7.000	51	47	61.358	-0.251	0.000	0.06		4.1	OK
7.001	52	49	61.253	-0.222	0.000	0.15		9.8	OK
1.015	53	46	61.172	-0.072	0.000	0.44		61.2	OK
1.016	54	46	60.642	-0.557	0.000	0.11		61.1	OK
1.017	55	46	60.510	-0.566	0.000	0.09		61.1	OK
1.018	56	46	60.328	-0.568	0.000	0.10		61.1	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of 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	0.300
Region England and Wales	Cv (Summer)		0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

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

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
1.000	18	51	69.365	-0.197	0.000	0.04	4.0	OK
2.000	19	51	66.039	-0.258	0.000	0.05	3.8	OK
2.001	20	51	65.804	-0.239	0.000	0.09	6.5	OK
1.001	21	51	65.740	-0.225	0.000	0.14	14.2	OK
1.002	22	51	65.336	-0.242	0.000	0.08	17.6	OK
3.000	23	51	62.448	-0.347	0.000	0.02	2.0	OK
3.001	24	51	62.353	-0.339	0.000	0.02	3.0	OK
3.002	25	51	62.182	-0.311	0.000	0.04	4.0	OK
1.003	26	51	62.168	-0.259	0.000	0.21	26.2	OK
1.004	27	51	61.912	-0.314	0.000	0.20	31.9	OK
4.000	28	51	65.058	-0.213	0.000	0.01	0.6	OK
4.001	29	51	64.751	-0.210	0.000	0.01	1.3	OK
4.002	30	51	63.827	-0.195	0.000	0.04	3.8	OK
4.003	31	51	62.846	-0.178	0.000	0.10	3.8	OK
4.004	32	51	62.674	-0.163	0.000	0.17	6.0	OK
4.005	33	51	62.577	-0.183	0.000	0.08	7.3	OK
1.005	34	51	61.785	-0.336	0.000	0.28	39.2	OK
1.006	35	51	61.684	-0.411	0.000	0.18	39.9	OK
1.007	36	51	61.648	-0.406	0.000	0.21	40.1	OK
1.008	37	51	61.618	-0.410	0.000	0.20	40.5	OK
1.009	38	51	61.581	-0.414	0.000	0.21	42.4	OK

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Summary Wizard of 180 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
1.010	39	51	61.525	-0.438	0.000	0.15	42.6	OK
1.011	40	51	61.424	-0.441	0.000	0.16	45.1	OK
1.012	41	51	61.304	-0.475	0.000	0.10	45.2	OK
1.013	42	52	61.147	-0.419	0.000	0.11	41.7	OK
1.014	43	52	61.132	-0.295	0.000	0.21	42.3	OK
5.000	44	51	63.983	-0.191	0.000	0.05	4.0	OK
5.001	45	51	62.888	-0.168	0.000	0.14	8.2	OK
5.002	46	51	62.618	-0.243	0.000	0.08	8.2	OK
5.003	47	51	62.465	-0.236	0.000	0.10	11.1	OK
6.000	48	51	62.209	-0.268	0.000	0.02	3.0	OK
5.004	49	51	61.961	-0.227	0.000	0.13	15.3	OK
5.005	50	51	61.522	-0.224	0.000	0.15	18.1	OK
7.000	51	51	61.352	-0.257	0.000	0.05	3.3	OK
7.001	52	51	61.244	-0.231	0.000	0.12	7.7	OK
1.015	53	52	61.121	-0.122	0.000	0.43	59.3	OK
1.016	54	51	60.639	-0.559	0.000	0.10	59.3	OK
1.017	55	51	60.508	-0.569	0.000	0.09	59.3	OK
1.018	56	51	60.326	-0.570	0.000	0.10	59.3	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet 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 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		(l/s)	Flow (l/s)	
1.000	18	56	69.363	-0.199	0.000	0.03		3.4	OK
2.000	19	56	66.035	-0.262	0.000	0.04		3.2	OK
2.001	20	56	65.799	-0.244	0.000	0.08		5.5	OK
1.001	21	56	65.734	-0.231	0.000	0.12		11.9	OK
1.002	22	56	65.330	-0.248	0.000	0.07		14.8	OK
3.000	23	56	62.444	-0.351	0.000	0.01		1.7	OK
3.001	24	56	62.348	-0.344	0.000	0.02		2.5	OK
3.002	25	56	62.174	-0.320	0.000	0.03		3.4	OK
1.003	26	56	62.157	-0.270	0.000	0.18		22.0	OK
1.004	27	56	61.899	-0.327	0.000	0.17		26.7	OK
4.000	28	56	65.056	-0.215	0.000	0.01		0.5	OK
4.001	29	56	64.748	-0.213	0.000	0.01		1.1	OK
4.002	30	56	63.825	-0.197	0.000	0.04		3.2	OK
4.003	31	56	62.843	-0.181	0.000	0.08		3.2	OK
4.004	32	56	62.669	-0.168	0.000	0.14		5.0	OK
4.005	33	56	62.573	-0.187	0.000	0.07		6.2	OK
1.005	34	56	61.768	-0.353	0.000	0.24		32.9	OK
1.006	35	56	61.667	-0.428	0.000	0.15		33.5	OK
1.007	36	56	61.631	-0.423	0.000	0.18		33.8	OK
1.008	37	56	61.601	-0.427	0.000	0.17		34.0	OK
1.009	38	56	61.565	-0.431	0.000	0.18		35.7	OK

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Summary Wizard of 240 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	
1.010	39	56	61.511	-0.452	0.000	0.12	35.8	OK
1.011	40	56	61.410	-0.455	0.000	0.13	38.0	OK
1.012	41	56	61.294	-0.486	0.000	0.08	38.1	OK
1.013	42	55	61.119	-0.447	0.000	0.10	36.1	OK
1.014	43	55	61.096	-0.331	0.000	0.18	36.4	OK
5.000	44	56	63.980	-0.194	0.000	0.05	3.3	OK
5.001	45	56	62.883	-0.173	0.000	0.12	6.9	OK
5.002	46	56	62.612	-0.249	0.000	0.07	6.9	OK
5.003	47	56	62.461	-0.240	0.000	0.09	9.3	OK
6.000	48	56	62.206	-0.271	0.000	0.02	2.5	OK
5.004	49	56	61.955	-0.233	0.000	0.11	12.9	OK
5.005	50	56	61.516	-0.230	0.000	0.12	15.2	OK
7.000	51	56	61.348	-0.261	0.000	0.04	2.7	OK
7.001	52	56	61.238	-0.237	0.000	0.10	6.5	OK
1.015	53	55	61.087	-0.156	0.000	0.39	54.2	OK
1.016	54	55	60.632	-0.566	0.000	0.09	54.1	OK
1.017	55	55	60.501	-0.575	0.000	0.08	54.1	OK
1.018	56	55	60.319	-0.577	0.000	0.09	54.1	OK

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Summary Wizard of 360 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Flooded		Pipe	
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.010	39	59	61.494	-0.470	0.000	0.10		27.7	OK
1.011	40	59	61.393	-0.472	0.000	0.10		29.4	OK
1.012	41	59	61.277	-0.502	0.000	0.06		29.4	OK
1.013	42	59	61.088	-0.478	0.000	0.08		28.8	OK
1.014	43	59	61.050	-0.377	0.000	0.14		28.9	OK
5.000	44	59	63.976	-0.198	0.000	0.04		2.6	OK
5.001	45	59	62.877	-0.179	0.000	0.09		5.3	OK
5.002	46	59	62.605	-0.256	0.000	0.05		5.3	OK
5.003	47	59	62.452	-0.249	0.000	0.07		7.2	OK
6.000	48	59	62.199	-0.278	0.000	0.02		2.0	OK
5.004	49	59	61.947	-0.241	0.000	0.09		9.9	OK
5.005	50	59	61.508	-0.238	0.000	0.10		11.7	OK
7.000	51	59	61.344	-0.265	0.000	0.03		2.1	OK
7.001	52	59	61.230	-0.245	0.000	0.08		5.0	OK
1.015	53	59	61.040	-0.203	0.000	0.32		43.9	OK
1.016	54	59	60.617	-0.581	0.000	0.08		43.9	OK
1.017	55	59	60.488	-0.588	0.000	0.06		43.8	OK
1.018	56	59	60.308	-0.588	0.000	0.07		43.9	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								Status
1.000	18	62	69.358	-0.204	0.000	0.02	2.2	OK
2.000	19	62	66.029	-0.268	0.000	0.03	2.1	OK
2.001	20	62	65.786	-0.257	0.000	0.05	3.5	OK
1.001	21	62	65.720	-0.245	0.000	0.08	7.6	OK
1.002	22	62	65.319	-0.259	0.000	0.05	9.5	OK
3.000	23	62	62.435	-0.360	0.000	0.01	1.1	OK
3.001	24	62	62.337	-0.355	0.000	0.01	1.6	OK
3.002	25	62	62.159	-0.334	0.000	0.02	2.2	OK
1.003	26	62	62.136	-0.292	0.000	0.11	14.1	OK
1.004	27	62	61.874	-0.352	0.000	0.11	17.2	OK
4.000	28	62	65.052	-0.219	0.000	0.01	0.3	OK
4.001	29	62	64.744	-0.217	0.000	0.01	0.7	OK
4.002	30	62	63.820	-0.202	0.000	0.02	2.0	OK
4.003	31	62	62.832	-0.192	0.000	0.05	2.0	OK
4.004	32	62	62.658	-0.179	0.000	0.09	3.2	OK
4.005	33	62	62.565	-0.195	0.000	0.04	4.0	OK
1.005	34	62	61.732	-0.389	0.000	0.15	21.1	OK
1.006	35	62	61.631	-0.464	0.000	0.10	21.5	OK
1.007	36	62	61.594	-0.459	0.000	0.12	21.7	OK
1.008	37	62	61.566	-0.463	0.000	0.11	21.8	OK
1.009	38	62	61.530	-0.466	0.000	0.11	22.9	OK

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Summary Wizard of 480 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Overflow Flow (l/s)	
1.010	39	62	61.483	-0.480	0.000	0.08	23.0	OK
1.011	40	62	61.383	-0.482	0.000	0.09	24.5	OK
1.012	41	62	61.267	-0.512	0.000	0.05	24.5	OK
1.013	42	62	61.070	-0.496	0.000	0.07	24.3	OK
1.014	43	62	61.024	-0.403	0.000	0.12	24.4	OK
5.000	44	62	63.974	-0.200	0.000	0.03	2.1	OK
5.001	45	62	62.872	-0.184	0.000	0.08	4.4	OK
5.002	46	62	62.601	-0.260	0.000	0.04	4.4	OK
5.003	47	62	62.446	-0.255	0.000	0.06	6.0	OK
6.000	48	62	62.196	-0.281	0.000	0.01	1.6	OK
5.004	49	62	61.941	-0.247	0.000	0.07	8.3	OK
5.005	50	62	61.502	-0.244	0.000	0.08	9.7	OK
7.000	51	62	61.342	-0.267	0.000	0.03	1.7	OK
7.001	52	62	61.224	-0.251	0.000	0.06	4.2	OK
1.015	53	61	61.013	-0.230	0.000	0.27	37.1	OK
1.016	54	61	60.607	-0.591	0.000	0.06	37.1	OK
1.017	55	61	60.479	-0.597	0.000	0.05	37.1	OK
1.018	56	61	60.300	-0.596	0.000	0.06	37.1	OK

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Summary Wizard of 600 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

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	18	63	69.355	-0.207	0.000	0.02	1.9	OK	
2.000	19	63	66.027	-0.270	0.000	0.02	1.8	OK	
2.001	20	63	65.783	-0.260	0.000	0.04	3.0	OK	
1.001	21	63	65.715	-0.250	0.000	0.07	6.6	OK	
1.002	22	63	65.316	-0.262	0.000	0.04	8.2	OK	
3.000	23	63	62.433	-0.362	0.000	0.01	0.9	OK	
3.001	24	63	62.334	-0.358	0.000	0.01	1.4	OK	
3.002	25	63	62.157	-0.336	0.000	0.02	1.9	OK	
1.003	26	63	62.130	-0.297	0.000	0.10	12.3	OK	
1.004	27	63	61.868	-0.358	0.000	0.09	14.9	OK	
4.000	28	63	65.051	-0.220	0.000	0.01	0.3	OK	
4.001	29	63	64.743	-0.218	0.000	0.01	0.6	OK	
4.002	30	63	63.818	-0.204	0.000	0.02	1.8	OK	
4.003	31	63	62.830	-0.194	0.000	0.05	1.8	OK	
4.004	32	63	62.654	-0.183	0.000	0.08	2.8	OK	
4.005	33	63	62.563	-0.197	0.000	0.04	3.4	OK	
1.005	34	63	61.722	-0.399	0.000	0.13	18.3	OK	
1.006	35	63	61.622	-0.473	0.000	0.08	18.7	OK	
1.007	36	63	61.585	-0.468	0.000	0.10	18.8	OK	
1.008	37	63	61.557	-0.471	0.000	0.09	18.9	OK	
1.009	38	63	61.521	-0.474	0.000	0.10	19.8	OK	

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Summary Wizard of 600 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Pipe		Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap. (l/s)	Overflow Flow (l/s)	
1.010	39	63	61.473	-0.490	0.000	0.07	20.0	OK
1.011	40	63	61.373	-0.492	0.000	0.07	21.2	OK
1.012	41	63	61.261	-0.518	0.000	0.05	21.2	OK
1.013	42	63	61.059	-0.507	0.000	0.06	21.1	OK
1.014	43	63	61.007	-0.420	0.000	0.10	21.1	OK
5.000	44	63	63.973	-0.201	0.000	0.03	1.8	OK
5.001	45	63	62.869	-0.187	0.000	0.07	3.8	OK
5.002	46	63	62.599	-0.262	0.000	0.04	3.8	OK
5.003	47	63	62.443	-0.258	0.000	0.05	5.2	OK
6.000	48	63	62.193	-0.284	0.000	0.01	1.4	OK
5.004	49	63	61.936	-0.252	0.000	0.06	7.2	OK
5.005	50	63	61.497	-0.249	0.000	0.07	8.4	OK
7.000	51	63	61.340	-0.269	0.000	0.02	1.5	OK
7.001	52	63	61.220	-0.255	0.000	0.06	3.6	OK
1.015	53	63	60.995	-0.248	0.000	0.23	32.5	OK
1.016	54	63	60.600	-0.598	0.000	0.06	32.5	OK
1.017	55	63	60.472	-0.604	0.000	0.05	32.5	OK
1.018	56	63	60.295	-0.601	0.000	0.05	32.5	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status	
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)		Flow (l/s)
1.000	18	65	69.353	-0.209	0.000	0.02		1.7	OK
2.000	19	65	66.025	-0.272	0.000	0.02		1.6	OK
2.001	20	65	65.781	-0.262	0.000	0.04		2.7	OK
1.001	21	65	65.712	-0.253	0.000	0.06		5.9	OK
1.002	22	65	65.314	-0.264	0.000	0.03		7.3	OK
3.000	23	65	62.432	-0.363	0.000	0.01		0.8	OK
3.001	24	65	62.332	-0.360	0.000	0.01		1.3	OK
3.002	25	65	62.154	-0.339	0.000	0.02		1.7	OK
1.003	26	65	62.126	-0.301	0.000	0.09		10.9	OK
1.004	27	65	61.862	-0.364	0.000	0.08		13.2	OK
4.000	28	65	65.051	-0.220	0.000	0.00		0.3	OK
4.001	29	65	64.742	-0.219	0.000	0.01		0.5	OK
4.002	30	65	63.816	-0.206	0.000	0.02		1.6	OK
4.003	31	65	62.828	-0.196	0.000	0.04		1.6	OK
4.004	32	65	62.651	-0.186	0.000	0.07		2.5	OK
4.005	33	65	62.561	-0.199	0.000	0.03		3.0	OK
1.005	34	65	61.715	-0.406	0.000	0.12		16.3	OK
1.006	35	65	61.616	-0.479	0.000	0.07		16.6	OK
1.007	36	65	61.579	-0.475	0.000	0.09		16.7	OK
1.008	37	65	61.551	-0.478	0.000	0.08		16.8	OK
1.009	38	65	61.515	-0.481	0.000	0.09		17.7	OK

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Summary Wizard of 720 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Flooded		Pipe	
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	Status
1.010	39	65	61.466	-0.497	0.000	0.06		17.7	OK
1.011	40	65	61.366	-0.499	0.000	0.07		18.9	OK
1.012	41	65	61.257	-0.523	0.000	0.04		18.9	OK
1.013	42	65	61.052	-0.514	0.000	0.05		18.8	OK
1.014	43	65	60.995	-0.432	0.000	0.09		18.8	OK
5.000	44	65	63.972	-0.202	0.000	0.02		1.6	OK
5.001	45	65	62.866	-0.190	0.000	0.06		3.4	OK
5.002	46	65	62.597	-0.264	0.000	0.03		3.4	OK
5.003	47	65	62.441	-0.260	0.000	0.04		4.6	OK
6.000	48	65	62.191	-0.286	0.000	0.01		1.3	OK
5.004	49	65	61.933	-0.255	0.000	0.06		6.4	OK
5.005	50	65	61.494	-0.252	0.000	0.06		7.5	OK
7.000	51	65	61.338	-0.271	0.000	0.02		1.3	OK
7.001	52	65	61.218	-0.257	0.000	0.05		3.2	OK
1.015	53	65	60.982	-0.261	0.000	0.21		29.1	OK
1.016	54	65	60.595	-0.604	0.000	0.05		29.1	OK
1.017	55	65	60.467	-0.610	0.000	0.04		29.1	OK
1.018	56	65	60.291	-0.605	0.000	0.05		29.1	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								Status
1.000	18	66	69.350	-0.212	0.000	0.01	1.4	OK
2.000	19	66	66.020	-0.277	0.000	0.02	1.3	OK
2.001	20	66	65.778	-0.265	0.000	0.03	2.3	OK
1.001	21	66	65.708	-0.257	0.000	0.05	4.9	OK
1.002	22	66	65.311	-0.267	0.000	0.03	6.1	OK
3.000	23	66	62.430	-0.365	0.000	0.01	0.7	OK
3.001	24	66	62.330	-0.362	0.000	0.01	1.0	OK
3.002	25	66	62.147	-0.346	0.000	0.01	1.4	OK
1.003	26	66	62.118	-0.309	0.000	0.07	9.1	OK
1.004	27	66	61.853	-0.373	0.000	0.07	11.0	OK
4.000	28	66	65.050	-0.221	0.000	0.00	0.2	OK
4.001	29	66	64.741	-0.220	0.000	0.00	0.4	OK
4.002	30	66	63.813	-0.209	0.000	0.01	1.3	OK
4.003	31	66	62.826	-0.198	0.000	0.03	1.3	OK
4.004	32	66	62.647	-0.190	0.000	0.06	2.1	OK
4.005	33	66	62.560	-0.200	0.000	0.03	2.5	OK
1.005	34	66	61.705	-0.416	0.000	0.10	13.5	OK
1.006	35	66	61.603	-0.492	0.000	0.06	13.8	OK
1.007	36	66	61.566	-0.487	0.000	0.07	13.9	OK
1.008	37	66	61.538	-0.491	0.000	0.07	14.0	OK
1.009	38	66	61.502	-0.494	0.000	0.07	14.7	OK

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Summary Wizard of 960 minute 1 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)		
1.010	39	66	61.456	-0.507	0.000	0.05		14.7	OK
1.011	40	66	61.357	-0.508	0.000	0.05		15.7	OK
1.012	41	66	61.250	-0.529	0.000	0.03		15.6	OK
1.013	42	66	61.044	-0.522	0.000	0.04		15.6	OK
1.014	43	66	60.975	-0.452	0.000	0.08		15.6	OK
5.000	44	66	63.969	-0.205	0.000	0.02		1.4	OK
5.001	45	66	62.863	-0.193	0.000	0.05		2.8	OK
5.002	46	66	62.594	-0.267	0.000	0.03		2.8	OK
5.003	47	66	62.438	-0.263	0.000	0.04		3.8	OK
6.000	48	66	62.189	-0.288	0.000	0.01		1.0	OK
5.004	49	66	61.929	-0.259	0.000	0.05		5.3	OK
5.005	50	66	61.489	-0.257	0.000	0.05		6.2	OK
7.000	51	66	61.334	-0.275	0.000	0.02		1.1	OK
7.001	52	66	61.214	-0.261	0.000	0.04		2.7	OK
1.015	53	66	60.962	-0.281	0.000	0.17		24.1	OK
1.016	54	66	60.584	-0.614	0.000	0.04		24.1	OK
1.017	55	66	60.456	-0.621	0.000	0.04		24.1	OK
1.018	56	66	60.283	-0.613	0.000	0.04		24.1	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

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	18	6	69.421	-0.141	0.000	0.30		32.3	OK
2.000	19	7	66.130	-0.167	0.000	0.38		30.3	OK
2.001	20	7	66.074	0.031	0.000	0.65		45.8	SURCHARGED
1.001	21	7	65.986	0.021	0.000	1.03		101.5	SURCHARGED
1.002	22	7	65.449	-0.129	0.000	0.61		128.2	OK
3.000	23	12	62.763	-0.032	0.000	0.11		14.0	OK
3.001	24	12	62.745	0.053	0.000	0.15		21.7	SURCHARGED
3.002	25	14	62.733	0.240	0.000	0.35		37.8	SURCHARGED
1.003	26	14	62.716	0.289	0.000	1.35		169.2	SURCHARGED
1.004	27	17	62.360	0.134	0.000	1.23		196.2	SURCHARGED
4.000	28	6	65.091	-0.180	0.000	0.09		5.0	OK
4.001	29	6	64.787	-0.174	0.000	0.12		10.6	OK
4.002	30	6	63.892	-0.130	0.000	0.37		32.5	OK
4.003	31	6	63.030	0.006	0.000	0.82		31.0	SURCHARGED
4.004	32	6	62.900	0.063	0.000	1.38		48.1	SURCHARGED
4.005	33	10	62.665	-0.095	0.000	0.63		58.4	OK
1.005	34	17	62.208	0.087	0.000	1.78		248.1	SURCHARGED
1.006	35	19	62.121	0.026	0.000	1.12		251.5	SURCHARGED
1.007	36	19	62.074	0.021	0.000	1.35		252.9	SURCHARGED
1.008	37	20	62.038	0.009	0.000	1.26		253.9	SURCHARGED
1.009	38	26	61.996	0.000	0.000	1.28		258.4	OK

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Summary Wizard of 15 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	31	61.818	-0.145	0.000	0.86	251.3		OK
1.011	40	32	61.707	-0.158	0.000	0.88	251.2		OK
1.012	41	32	61.620	-0.159	0.000	0.54	250.8		OK
1.013	42	32	61.570	0.004	0.000	0.22	80.7		SURCHARGED
1.014	43	32	61.551	0.124	0.000	0.35	71.9		SURCHARGED
5.000	44	6	64.055	-0.119	0.000	0.44	31.7		OK
5.001	45	7	63.125	0.069	0.000	1.16	66.6		SURCHARGED
5.002	46	10	62.740	-0.121	0.000	0.66	66.6		OK
5.003	47	10	62.612	-0.089	0.000	0.82	87.8		OK
6.000	48	14	62.306	-0.171	0.000	0.20	24.6		OK
5.004	49	14	62.287	0.099	0.000	0.92	105.5		SURCHARGED
5.005	50	19	61.923	0.177	0.000	0.95	116.8		SURCHARGED
7.000	51	25	61.672	0.063	0.000	0.34	21.9		SURCHARGED
7.001	52	27	61.644	0.169	0.000	0.73	46.9		SURCHARGED
1.015	53	32	61.556	0.312	0.000	0.47	65.2		SURCHARGED
1.016	54	26	60.647	-0.551	0.000	0.11	65.2		OK
1.017	55	25	60.515	-0.562	0.000	0.10	65.2		OK
1.018	56	26	60.333	-0.564	0.000	0.11	65.2		OK

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Summary Wizard of 30 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	22	61.963	0.000	0.000	0.81		236.8	OK
1.011	40	24	61.865	0.000	0.000	0.85		242.7	OK
1.012	41	25	61.809	0.030	0.000	0.49		226.2	SURCHARGED
1.013	42	24	61.684	0.118	0.000	0.14		52.0	SURCHARGED
1.014	43	25	61.669	0.242	0.000	0.27		55.5	SURCHARGED
5.000	44	10	64.043	-0.131	0.000	0.36		26.2	OK
5.001	45	10	63.006	-0.050	0.000	0.96		54.8	OK
5.002	46	13	62.720	-0.141	0.000	0.55		54.8	OK
5.003	47	14	62.585	-0.116	0.000	0.69		73.6	OK
6.000	48	17	62.257	-0.220	0.000	0.16		20.1	OK
5.004	49	20	62.130	-0.058	0.000	0.87		99.1	OK
5.005	50	23	61.829	0.083	0.000	0.90		110.3	SURCHARGED
7.000	51	26	61.672	0.063	0.000	0.29		18.5	SURCHARGED
7.001	52	25	61.669	0.194	0.000	0.61		39.3	SURCHARGED
1.015	53	26	61.662	0.419	0.000	0.47		65.2	SURCHARGED
1.016	54	30	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	30	60.515	-0.562	0.000	0.09		65.2	OK
1.018	56	32	60.333	-0.564	0.000	0.11		65.1	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Overflow Cap.	Pipe Flow	Status
			(m)	(m)	(m³)		(l/s)	
1.000	18	15	69.399	-0.163	0.000	0.17	18.3	OK
2.000	19	15	66.092	-0.205	0.000	0.22	17.4	OK
2.001	20	15	65.884	-0.159	0.000	0.43	29.8	OK
1.001	21	15	65.844	-0.121	0.000	0.66	65.0	OK
1.002	22	15	65.407	-0.171	0.000	0.38	80.9	OK
3.000	23	22	62.486	-0.309	0.000	0.07	9.1	OK
3.001	24	22	62.424	-0.268	0.000	0.09	13.4	OK
3.002	25	22	62.404	-0.089	0.000	0.18	19.3	OK
1.003	26	22	62.386	-0.042	0.000	0.93	116.5	OK
1.004	27	27	62.208	-0.018	0.000	0.88	140.2	OK
4.000	28	15	65.078	-0.193	0.000	0.05	2.8	OK
4.001	29	15	64.773	-0.188	0.000	0.06	5.8	OK
4.002	30	15	63.865	-0.157	0.000	0.20	17.5	OK
4.003	31	15	62.907	-0.117	0.000	0.46	17.4	OK
4.004	32	16	62.765	-0.072	0.000	0.79	27.5	OK
4.005	33	17	62.629	-0.131	0.000	0.36	33.8	OK
1.005	34	26	62.121	0.000	0.000	1.24	172.7	OK
1.006	35	25	62.095	0.000	0.000	0.78	176.2	OK
1.007	36	27	62.054	0.000	0.000	0.95	177.3	OK
1.008	37	28	62.028	0.000	0.000	0.88	177.6	OK
1.009	38	23	61.996	0.000	0.000	0.92	184.5	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	21	61.966	0.003	0.000	0.63		183.0	SURCHARGED
1.011	40	20	61.947	0.082	0.000	0.63		180.9	SURCHARGED
1.012	41	20	61.937	0.158	0.000	0.35		164.1	SURCHARGED
1.013	42	20	61.786	0.220	0.000	0.17		64.2	SURCHARGED
1.014	43	20	61.807	0.380	0.000	0.31		62.4	SURCHARGED
5.000	44	15	64.025	-0.149	0.000	0.25		18.1	OK
5.001	45	15	62.966	-0.090	0.000	0.66		37.6	OK
5.002	46	16	62.689	-0.172	0.000	0.37		37.6	OK
5.003	47	16	62.548	-0.153	0.000	0.48		51.1	OK
6.000	48	19	62.244	-0.233	0.000	0.11		13.9	OK
5.004	49	22	62.059	-0.129	0.000	0.62		70.5	OK
5.005	50	24	61.822	0.076	0.000	0.67		82.3	SURCHARGED
7.000	51	20	61.802	0.193	0.000	0.21		13.4	SURCHARGED
7.001	52	20	61.775	0.300	0.000	0.45		29.0	SURCHARGED
1.015	53	20	61.815	0.571	0.000	0.47		65.2	SURCHARGED
1.016	54	29	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	29	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	29	60.333	-0.564	0.000	0.11		65.2	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow / Overflow	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap. (l/s)	(l/s)	Status
1.000	18	25	69.386	-0.176	0.000	0.11	11.9	OK
2.000	19	25	66.072	-0.225	0.000	0.14	11.4	OK
2.001	20	23	65.850	-0.193	0.000	0.28	19.4	OK
1.001	21	23	65.802	-0.163	0.000	0.43	42.2	OK
1.002	22	22	65.379	-0.199	0.000	0.25	52.5	OK
3.000	23	28	62.472	-0.323	0.000	0.05	5.9	OK
3.001	24	27	62.377	-0.315	0.000	0.06	9.0	OK
3.002	25	27	62.273	-0.220	0.000	0.11	11.9	OK
1.003	26	27	62.267	-0.160	0.000	0.62	78.1	OK
1.004	27	24	62.211	-0.016	0.000	0.59	94.5	OK
4.000	28	25	65.072	-0.199	0.000	0.03	1.8	OK
4.001	29	23	64.765	-0.196	0.000	0.04	3.8	OK
4.002	30	22	63.850	-0.172	0.000	0.13	11.3	OK
4.003	31	22	62.883	-0.141	0.000	0.30	11.3	OK
4.004	32	22	62.726	-0.111	0.000	0.51	17.8	OK
4.005	33	22	62.609	-0.151	0.000	0.23	21.9	OK
1.005	34	23	62.121	0.000	0.000	0.83	115.9	OK
1.006	35	26	62.095	0.000	0.000	0.52	117.6	OK
1.007	36	25	62.054	0.000	0.000	0.63	117.8	OK
1.008	37	24	62.028	0.000	0.000	0.59	118.7	OK
1.009	38	20	62.001	0.005	0.000	0.61	123.9	SURCHARGED

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Summary Wizard of 120 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	20	61.988	0.025	0.000	0.42		123.2	SURCHARGED
1.011	40	21	61.935	0.070	0.000	0.43		122.8	SURCHARGED
1.012	41	21	61.924	0.145	0.000	0.25		113.5	SURCHARGED
1.013	42	21	61.777	0.211	0.000	0.17		62.6	SURCHARGED
1.014	43	21	61.755	0.328	0.000	0.30		61.8	SURCHARGED
5.000	44	25	64.010	-0.164	0.000	0.16		11.8	OK
5.001	45	23	62.934	-0.122	0.000	0.43		24.5	OK
5.002	46	23	62.661	-0.200	0.000	0.24		24.5	OK
5.003	47	22	62.515	-0.186	0.000	0.31		33.1	OK
6.000	48	26	62.230	-0.247	0.000	0.07		9.0	OK
5.004	49	25	62.020	-0.168	0.000	0.40		45.7	OK
5.005	50	25	61.777	0.031	0.000	0.44		53.8	SURCHARGED
7.000	51	21	61.766	0.157	0.000	0.14		8.8	SURCHARGED
7.001	52	21	61.737	0.262	0.000	0.29		18.6	SURCHARGED
1.015	53	21	61.750	0.507	0.000	0.47		65.2	SURCHARGED
1.016	54	18	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	19	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	17	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	26	61.963	0.000	0.000	0.33		95.9	OK
1.011	40	25	61.865	0.000	0.000	0.34		97.7	OK
1.012	41	23	61.839	0.060	0.000	0.20		91.5	SURCHARGED
1.013	42	23	61.686	0.120	0.000	0.17		62.7	SURCHARGED
1.014	43	23	61.672	0.245	0.000	0.30		61.2	SURCHARGED
5.000	44	31	64.002	-0.172	0.000	0.13		9.1	OK
5.001	45	30	62.920	-0.136	0.000	0.33		18.8	OK
5.002	46	30	62.649	-0.212	0.000	0.19		18.8	OK
5.003	47	30	62.500	-0.201	0.000	0.24		25.4	OK
6.000	48	31	62.222	-0.255	0.000	0.06		6.9	OK
5.004	49	32	62.002	-0.186	0.000	0.31		35.0	OK
5.005	50	29	61.680	-0.066	0.000	0.34		41.2	OK
7.000	51	23	61.676	0.067	0.000	0.11		7.0	SURCHARGED
7.001	52	23	61.674	0.199	0.000	0.23		14.8	SURCHARGED
1.015	53	24	61.665	0.422	0.000	0.47		65.2	SURCHARGED
1.016	54	20	60.647	-0.551	0.000	0.11		65.2	OK
1.017	55	24	60.515	-0.562	0.000	0.10		65.2	OK
1.018	56	23	60.333	-0.563	0.000	0.11		65.2	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow / Overflow	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Status
1.000	18	37	69.375	-0.187	0.000	0.07	7.5	OK
2.000	19	37	66.057	-0.240	0.000	0.09	7.1	OK
2.001	20	37	65.827	-0.216	0.000	0.17	12.2	OK
1.001	21	37	65.770	-0.195	0.000	0.27	26.6	OK
1.002	22	36	65.357	-0.221	0.000	0.16	33.0	OK
3.000	23	37	62.462	-0.333	0.000	0.03	3.7	OK
3.001	24	37	62.364	-0.328	0.000	0.04	5.7	OK
3.002	25	38	62.222	-0.271	0.000	0.07	7.5	OK
1.003	26	38	62.215	-0.213	0.000	0.39	49.1	OK
1.004	27	39	61.966	-0.260	0.000	0.37	59.6	OK
4.000	28	37	65.068	-0.203	0.000	0.02	1.1	OK
4.001	29	37	64.760	-0.201	0.000	0.03	2.4	OK
4.002	30	36	63.839	-0.183	0.000	0.08	7.1	OK
4.003	31	36	62.865	-0.159	0.000	0.19	7.1	OK
4.004	32	36	62.699	-0.138	0.000	0.32	11.2	OK
4.005	33	36	62.592	-0.168	0.000	0.15	13.8	OK
1.005	34	33	61.929	-0.192	0.000	0.53	73.3	OK
1.006	35	32	61.919	-0.176	0.000	0.33	74.6	OK
1.007	36	32	61.897	-0.156	0.000	0.40	75.1	OK
1.008	37	32	61.885	-0.144	0.000	0.38	75.7	OK
1.009	38	32	61.867	-0.129	0.000	0.39	79.4	OK

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Summary Wizard of 240 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	29	61.847	-0.116	0.000	0.27	79.5		OK
1.011	40	29	61.779	-0.086	0.000	0.29	81.7		OK
1.012	41	29	61.709	-0.070	0.000	0.17	77.5		OK
1.013	42	30	61.630	0.064	0.000	0.17	62.4		SURCHARGED
1.014	43	29	61.619	0.192	0.000	0.28	57.3		SURCHARGED
5.000	44	37	63.997	-0.177	0.000	0.10	7.4		OK
5.001	45	37	62.910	-0.146	0.000	0.27	15.4		OK
5.002	46	37	62.639	-0.222	0.000	0.15	15.4		OK
5.003	47	36	62.490	-0.211	0.000	0.19	20.8		OK
6.000	48	37	62.218	-0.259	0.000	0.05	5.7		OK
5.004	49	36	61.990	-0.198	0.000	0.25	28.7		OK
5.005	50	31	61.634	-0.112	0.000	0.28	33.8		OK
7.000	51	32	61.625	0.016	0.000	0.09	5.8		SURCHARGED
7.001	52	29	61.621	0.146	0.000	0.19	12.5		SURCHARGED
1.015	53	29	61.613	0.370	0.000	0.47	65.2		SURCHARGED
1.016	54	15	60.647	-0.551	0.000	0.11	65.2		OK
1.017	55	5	60.515	-0.562	0.000	0.10	65.2		OK
1.018	56	7	60.333	-0.563	0.000	0.11	65.2		OK

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Summary Wizard of 360 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

			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	18	43	69.370	-0.192	0.000	0.05	5.6	OK
2.000	19	43	66.047	-0.250	0.000	0.07	5.4	OK
2.001	20	43	65.815	-0.228	0.000	0.13	9.2	OK
1.001	21	43	65.756	-0.209	0.000	0.20	20.0	OK
1.002	22	43	65.346	-0.232	0.000	0.12	24.9	OK
3.000	23	43	62.458	-0.337	0.000	0.02	2.8	OK
3.001	24	43	62.359	-0.333	0.000	0.03	4.3	OK
3.002	25	43	62.201	-0.292	0.000	0.05	5.6	OK
1.003	26	43	62.191	-0.237	0.000	0.29	37.0	OK
1.004	27	43	61.938	-0.288	0.000	0.28	44.9	OK
4.000	28	43	65.062	-0.209	0.000	0.02	0.9	OK
4.001	29	43	64.757	-0.204	0.000	0.02	1.8	OK
4.002	30	43	63.833	-0.189	0.000	0.06	5.3	OK
4.003	31	43	62.855	-0.169	0.000	0.14	5.3	OK
4.004	32	43	62.687	-0.150	0.000	0.24	8.4	OK
4.005	33	43	62.585	-0.175	0.000	0.11	10.3	OK
1.005	34	43	61.825	-0.296	0.000	0.40	55.2	OK
1.006	35	43	61.722	-0.373	0.000	0.25	56.3	OK
1.007	36	43	61.686	-0.368	0.000	0.30	56.7	OK
1.008	37	43	61.656	-0.373	0.000	0.28	57.1	OK
1.009	38	44	61.619	-0.377	0.000	0.30	59.8	OK

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Summary Wizard of 360 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	41	61.595	-0.368	0.000	0.21	60.0		OK
1.011	40	36	61.564	-0.301	0.000	0.22	63.2		OK
1.012	41	36	61.531	-0.248	0.000	0.13	62.1		OK
1.013	42	36	61.488	-0.078	0.000	0.14	53.2		OK
1.014	43	35	61.441	0.014	0.000	0.26	53.5		SURCHARGED
5.000	44	43	63.990	-0.184	0.000	0.08	5.6		OK
5.001	45	43	62.899	-0.157	0.000	0.20	11.6		OK
5.002	46	43	62.628	-0.233	0.000	0.12	11.6		OK
5.003	47	43	62.477	-0.224	0.000	0.15	15.7		OK
6.000	48	43	62.213	-0.264	0.000	0.03	4.3		OK
5.004	49	43	61.976	-0.212	0.000	0.19	21.6		OK
5.005	50	43	61.538	-0.208	0.000	0.21	25.5		OK
7.000	51	35	61.449	-0.160	0.000	0.07	4.5		OK
7.001	52	35	61.446	-0.029	0.000	0.16	10.3		OK
1.015	53	35	61.434	0.191	0.000	0.47	65.2		SURCHARGED
1.016	54	33	60.647	-0.551	0.000	0.11	65.2		OK
1.017	55	32	60.515	-0.562	0.000	0.09	65.2		OK
1.018	56	31	60.333	-0.564	0.000	0.11	65.2		OK

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Summary Wizard of 480 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of 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 0.300
 Region England and Wales Cv (Summer) 0.750
 M5-60 (mm) 19.000 Cv (Winter) 0.840

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

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

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
1.000	18	49	69.366	-0.196	0.000	0.04	4.6	OK	
2.000	19	49	66.042	-0.255	0.000	0.05	4.4	OK	
2.001	20	49	65.808	-0.235	0.000	0.11	7.5	OK	
1.001	21	49	65.746	-0.219	0.000	0.16	16.3	OK	
1.002	22	49	65.340	-0.238	0.000	0.10	20.3	OK	
3.000	23	49	62.452	-0.343	0.000	0.02	2.3	OK	
3.001	24	49	62.356	-0.336	0.000	0.02	3.5	OK	
3.002	25	49	62.189	-0.304	0.000	0.04	4.6	OK	
1.003	26	49	62.176	-0.251	0.000	0.24	30.1	OK	
1.004	27	49	61.922	-0.305	0.000	0.23	36.6	OK	
4.000	28	49	65.059	-0.212	0.000	0.01	0.7	OK	
4.001	29	49	64.753	-0.208	0.000	0.02	1.4	OK	
4.002	30	49	63.829	-0.193	0.000	0.05	4.3	OK	
4.003	31	49	62.849	-0.175	0.000	0.11	4.3	OK	
4.004	32	49	62.679	-0.158	0.000	0.20	6.9	OK	
4.005	33	49	62.580	-0.180	0.000	0.09	8.4	OK	
1.005	34	49	61.801	-0.320	0.000	0.32	45.0	OK	
1.006	35	49	61.698	-0.397	0.000	0.20	45.9	OK	
1.007	36	49	61.662	-0.392	0.000	0.25	46.3	OK	
1.008	37	49	61.632	-0.397	0.000	0.23	46.6	OK	
1.009	38	49	61.595	-0.401	0.000	0.24	48.9	OK	

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Summary Wizard of 480 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

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)	
1.010	39	49	61.539	-0.424	0.000	0.17	49.1	OK	
1.011	40	48	61.440	-0.425	0.000	0.18	52.2	OK	
1.012	41	43	61.363	-0.416	0.000	0.11	51.8	OK	
1.013	42	39	61.341	-0.226	0.000	0.13	46.8	OK	
1.014	43	39	61.314	-0.113	0.000	0.23	47.8	OK	
5.000	44	49	63.985	-0.189	0.000	0.06	4.5	OK	
5.001	45	49	62.892	-0.164	0.000	0.16	9.4	OK	
5.002	46	49	62.623	-0.238	0.000	0.09	9.4	OK	
5.003	47	49	62.469	-0.232	0.000	0.12	12.8	OK	
6.000	48	49	62.210	-0.267	0.000	0.03	3.5	OK	
5.004	49	49	61.966	-0.222	0.000	0.15	17.6	OK	
5.005	50	49	61.528	-0.218	0.000	0.17	20.8	OK	
7.000	51	49	61.355	-0.254	0.000	0.06	3.7	OK	
7.001	52	39	61.300	-0.175	0.000	0.14	8.8	OK	
1.015	53	39	61.291	0.048	0.000	0.46	63.9	SURCHARGED	
1.016	54	39	60.645	-0.553	0.000	0.11	63.9	OK	
1.017	55	39	60.513	-0.563	0.000	0.09	63.9	OK	
1.018	56	39	60.331	-0.565	0.000	0.11	63.9	OK	

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Summary Wizard of 600 minute 30 year Winter I+0% for SW NET 2 10.10.18.SWS

PN	US/MH Name	Storm Rank	Water			Surcharged		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
1.010	39	52	61.524	-0.439	0.000	0.14		41.8	OK
1.011	40	52	61.423	-0.442	0.000	0.16		44.4	OK
1.012	41	52	61.303	-0.476	0.000	0.10		44.4	OK
1.013	42	44	61.215	-0.351	0.000	0.11		42.2	OK
1.014	43	44	61.199	-0.228	0.000	0.21		42.7	OK
5.000	44	52	63.982	-0.192	0.000	0.05		3.9	OK
5.001	45	52	62.887	-0.169	0.000	0.14		8.0	OK
5.002	46	52	62.617	-0.244	0.000	0.08		8.0	OK
5.003	47	52	62.465	-0.236	0.000	0.10		10.9	OK
6.000	48	52	62.208	-0.269	0.000	0.02		3.0	OK
5.004	49	52	61.960	-0.228	0.000	0.13		15.0	OK
5.005	50	52	61.521	-0.225	0.000	0.14		17.7	OK
7.000	51	52	61.351	-0.258	0.000	0.05		3.2	OK
7.001	52	52	61.243	-0.232	0.000	0.12		7.5	OK
1.015	53	44	61.189	-0.054	0.000	0.44		61.5	OK
1.016	54	44	60.642	-0.556	0.000	0.11		61.5	OK
1.017	55	44	60.510	-0.566	0.000	0.09		61.5	OK
1.018	56	44	60.328	-0.568	0.000	0.10		61.5	OK