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Summary Wizard of 15 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
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	Scotland and Ireland Cv (Summer) 0.750		
M5-60 (mm)	14.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

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	1	5	134.967	0.191	0.000	1.07	25.3		SURCHARGED
1.001	2	5	133.475	-0.104	0.000	0.55	42.3		OK
1.002	3	5	132.462	-0.090	0.000	0.65	45.8		OK
2.000	44	5	132.253	-0.122	0.000	0.42	19.8		OK
1.003	4	5	132.112	-0.070	0.000	0.94	67.2		OK
3.000	46	5	134.406	-0.094	0.000	0.30	7.4		OK
3.001	47	5	133.868	-0.087	0.000	0.36	12.1		OK
3.002	48	5	133.259	-0.054	0.000	0.73	27.0		OK
1.004	5	5	131.906	-0.119	0.000	0.66	101.9		OK
1.005	6	6	131.227	-0.044	0.000	0.76	118.8		OK
4.000	50	5	134.390	-0.084	0.000	0.39	14.4		OK
4.001	51	5	132.669	-0.075	0.000	0.75	52.3		OK
4.002	52	6	131.589	-0.086	0.000	0.82	68.1		OK
4.003	53	6	131.478	0.073	0.000	1.29	79.5		SURCHARGED
4.004	54	6	131.389	0.062	0.000	0.85	98.8		SURCHARGED
1.006	7	6	130.974	0.136	0.000	0.83	198.1		SURCHARGED
1.007	8	6	130.832	0.325	0.000	1.32	199.5		SURCHARGED
1.008	9	6	130.704	0.266	0.000	1.33	207.2		SURCHARGED
1.009	10	6	130.558	0.203	0.000	1.42	212.9		SURCHARGED


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Summary Wizard of 15 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	5	129.463	-0.054	0.000	0.92		35.5	OK
21.006	130	5	126.405	-0.156	0.000	0.83		460.5	OK
28.000	159	6	124.313	-0.362	0.000	0.14		54.2	OK
28.001	160	6	124.286	-0.288	0.000	0.15		67.1	OK
21.007	131	6	124.273	0.087	0.000	1.16		487.1	SURCHARGED
21.008	132	6	124.165	0.098	0.000	1.06		471.4	SURCHARGED
21.009	133	6	124.035	0.123	0.000	0.96		449.2	SURCHARGED
29.000	162	5	133.370	-0.093	0.000	0.63		40.1	OK
29.001	163	5	132.412	-0.109	0.000	0.50		61.3	OK
29.002	164	5	129.319	0.058	0.000	1.18		67.2	SURCHARGED
30.000	168	5	131.289	-0.047	0.000	0.94		60.0	OK
30.001	169	5	129.913	-0.114	0.000	0.68		90.7	OK
29.003	165	5	129.052	-0.121	0.000	0.66		176.1	OK
31.000	171	5	128.297	-0.099	0.000	0.58		30.1	OK
31.001	172	5	127.694	-0.098	0.000	0.58		59.9	OK
29.004	166	5	125.447	0.141	0.000	1.51		247.2	SURCHARGED
21.010	134	6	123.858	0.217	0.000	2.07		606.1	SURCHARGED
21.011	135	7	123.729	0.106	0.000	1.39		605.1	SURCHARGED
21.012	136	7	123.623	0.054	0.000	1.16		596.2	SURCHARGED
1.036	37	21	123.431	0.000	0.000	1.52		1065.8	OK
1.037	38	29	123.124	-0.271	0.000	0.89		1047.1	OK
1.038	39	36	122.592	-0.630	0.000	0.07		83.3	OK
1.039	40	36	122.581	-0.475	0.000	0.05		44.5	OK
1.040	41	36	122.093	-0.914	0.000	0.04		44.5	OK

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Summary Wizard of 30 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
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	Scotland and Ireland Cv (Summer) 0.750		
M5-60 (mm)	14.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF


Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	7	134.749	-0.027	0.000	0.98		23.4	OK
1.001	2	7	133.466	-0.113	0.000	0.49		37.8	OK
1.002	3	7	132.450	-0.102	0.000	0.58		40.6	OK
2.000	44	7	132.241	-0.134	0.000	0.35		16.2	OK
1.003	4	7	132.087	-0.095	0.000	0.80		57.5	OK
3.000	46	7	134.400	-0.100	0.000	0.24		6.1	OK
3.001	47	7	133.861	-0.094	0.000	0.29		9.7	OK
3.002	48	7	133.245	-0.068	0.000	0.57		21.3	OK
1.004	5	7	131.886	-0.139	0.000	0.56		85.9	OK
1.005	6	7	131.148	-0.123	0.000	0.65		100.8	OK
4.000	50	7	134.382	-0.092	0.000	0.32		11.8	OK
4.001	51	7	132.647	-0.097	0.000	0.61		42.1	OK
4.002	52	7	131.555	-0.120	0.000	0.67		55.1	OK
4.003	53	7	131.406	0.001	0.000	1.06		65.3	SURCHARGED
4.004	54	7	131.222	-0.105	0.000	0.75		87.6	OK
1.006	7	7	130.821	-0.017	0.000	0.75		180.9	OK
1.007	8	7	130.696	0.189	0.000	1.21		183.5	SURCHARGED
1.008	9	7	130.593	0.155	0.000	1.22		189.9	SURCHARGED
1.009	10	7	130.470	0.115	0.000	1.31		196.1	SURCHARGED

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Summary Wizard of 30 minute 30 year Winter I+0% for SW1.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)	
5.000	56	7	131.432	0.032	0.000	1.09		18.2	SURCHARGED
5.001	57	7	131.116	-0.105	0.000	0.55		30.2	OK
1.010	11	7	130.352	0.063	0.000	1.13		238.8	SURCHARGED
1.011	12	7	130.048	0.008	0.000	1.02		235.7	SURCHARGED
1.012	13	8	129.947	0.000	0.000	1.09		238.8	OK
1.013	14	8	129.711	-0.167	0.000	0.65		244.1	OK
6.000	59	7	133.391	-0.054	0.000	0.73		12.2	OK
6.001	60	7	133.110	-0.112	0.000	0.50		27.8	OK
7.000	66	7	133.112	-0.088	0.000	0.36		6.1	OK
6.002	61	7	132.825	-0.093	0.000	0.64		41.0	OK
6.003	62	7	132.505	-0.063	0.000	0.86		54.2	OK
8.000	68	7	133.897	-0.081	0.000	0.44		17.1	OK
6.004	63	7	131.757	-0.058	0.000	0.90		72.5	OK
9.000	70	7	131.781	-0.137	0.000	0.32		15.8	OK
6.005	64	7	131.430	-0.135	0.000	0.58		112.8	OK
1.014	15	7	129.586	0.010	0.000	1.02		315.5	SURCHARGED
1.015	16	7	129.511	0.013	0.000	0.90		323.0	SURCHARGED
1.016	17	7	129.327	0.072	0.000	1.11		318.0	SURCHARGED
1.017	18	7	129.259	0.059	0.000	1.07		317.4	SURCHARGED
1.018	19	7	129.184	0.049	0.000	1.32		318.2	SURCHARGED
10.000	72	7	131.841	-0.079	0.000	0.45		8.2	OK
10.001	73	7	131.622	-0.078	0.000	0.47		8.2	OK
1.019	20	7	129.132	0.026	0.000	1.47		321.9	SURCHARGED
1.020	21	7	129.083	0.000	0.000	1.03		324.6	OK
1.021	22	7	128.931	-0.064	0.000	1.00		318.7	OK
11.000	75	7	134.247	-0.131	0.000	0.37		21.1	OK
11.001	76	7	133.718	-0.124	0.000	0.41		25.9	OK
11.002	77	7	133.490	-0.068	0.000	0.83		29.9	OK
11.003	78	7	133.363	-0.077	0.000	0.76		42.2	OK
11.004	79	7	133.096	0.056	0.000	0.88		49.0	SURCHARGED
11.005	80	7	132.903	0.112	0.000	1.12		63.7	SURCHARGED
1.022	23	7	128.698	-0.204	0.000	0.83		359.5	OK
1.023	24	7	128.561	-0.232	0.000	0.75		360.0	OK
12.000	82	7	134.243	-0.065	0.000	0.61		18.6	OK
12.001	83	7	133.491	-0.118	0.000	0.46		42.1	OK
12.002	84	7	131.228	0.031	0.000	1.29		43.5	SURCHARGED
1.024	25	8	128.363	-0.217	0.000	0.79		374.9	OK
1.025	26	8	128.197	-0.190	0.000	0.86		375.1	OK
1.026	27	8	128.085	-0.193	0.000	0.85		375.0	OK
1.027	28	8	127.936	-0.228	0.000	0.76		375.7	OK
1.028	29	8	127.741	-0.141	0.000	0.98		374.8	OK
13.000	86	7	129.594	-0.051	0.000	0.76		15.3	OK
13.001	87	7	129.139	-0.055	0.000	0.72		17.4	OK
1.029	30	8	127.631	-0.193	0.000	0.86		378.2	OK
1.030	31	8	127.495	-0.210	0.000	0.81		378.5	OK
1.031	32	8	127.224	-0.312	0.000	0.56		378.2	OK
14.000	89	7	133.749	-0.088	0.000	0.66		25.7	OK
14.001	90	7	133.425	0.043	0.000	1.03		39.0	SURCHARGED
14.002	91	7	133.185	0.025	0.000	1.27		42.1	SURCHARGED

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Summary Wizard of 30 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Overflow		Pipe	Status
			Level (m)	Depth (m)	Volume (m ³)	Cap.	(l/s)	Flow (l/s)	
27.000	157	7	129.438	-0.079	0.000	0.75		28.9	OK
21.006	130	7	126.360	-0.201	0.000	0.70		387.2	OK
28.000	159	8	124.219	-0.456	0.000	0.12		45.9	OK
28.001	160	8	124.197	-0.377	0.000	0.13		57.2	OK
21.007	131	8	124.179	-0.007	0.000	1.00		418.2	OK
21.008	132	8	124.059	-0.008	0.000	0.94		417.7	OK
21.009	133	8	123.926	0.014	0.000	0.89		416.7	SURCHARGED
29.000	162	7	133.353	-0.110	0.000	0.52		33.1	OK
29.001	163	7	132.397	-0.124	0.000	0.42		50.8	OK
29.002	164	7	129.212	-0.049	0.000	0.96		54.9	OK
30.000	168	7	131.263	-0.073	0.000	0.77		49.5	OK
30.001	169	7	129.890	-0.137	0.000	0.56		74.9	OK
29.003	165	7	129.031	-0.142	0.000	0.54		144.9	OK
31.000	171	7	128.281	-0.115	0.000	0.48		24.8	OK
31.001	172	7	127.678	-0.114	0.000	0.48		49.5	OK
29.004	166	7	125.358	0.052	0.000	1.26		206.5	SURCHARGED
21.010	134	8	123.767	0.126	0.000	1.98		581.0	SURCHARGED
21.011	135	8	123.705	0.082	0.000	1.33		581.2	SURCHARGED
21.012	136	8	123.609	0.040	0.000	1.13		580.3	SURCHARGED
1.036	37	23	123.431	0.000	0.000	1.64		1150.5	OK
1.037	38	25	123.170	-0.225	0.000	0.96		1132.7	OK
1.038	39	34	122.704	-0.518	0.000	0.08		89.4	OK
1.039	40	34	122.692	-0.365	0.000	0.05		44.5	OK
1.040	41	24	122.093	-0.914	0.000	0.04		44.5	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 20.000
 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 Scotland and Ireland Cv (Summer) 0.750
 M5-60 (mm) 14.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status ON
 Inertia Status OFF

Profile(s) Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 30, 100, 200
 Climate Change (%) 0, 0, 0


			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	1	9	134.718	-0.058	0.000	0.69	16.5	OK
1.001	2	9	133.445	-0.134	0.000	0.35	26.5	OK
1.002	3	9	132.426	-0.126	0.000	0.41	28.6	OK
2.000	44	9	132.225	-0.150	0.000	0.24	11.3	OK
1.003	4	9	132.043	-0.139	0.000	0.56	40.4	OK
3.000	46	9	134.391	-0.109	0.000	0.17	4.2	OK
3.001	47	9	133.851	-0.104	0.000	0.20	6.7	OK
3.002	48	9	133.229	-0.084	0.000	0.40	14.7	OK
1.004	5	9	131.855	-0.170	0.000	0.39	60.2	OK
1.005	6	9	131.113	-0.158	0.000	0.46	70.7	OK
4.000	50	9	134.372	-0.102	0.000	0.22	8.2	OK
4.001	51	9	132.620	-0.124	0.000	0.42	29.0	OK
4.002	52	9	131.518	-0.157	0.000	0.46	38.1	OK
4.003	53	9	131.300	-0.105	0.000	0.75	46.2	OK
4.004	54	9	131.185	-0.142	0.000	0.54	63.4	OK
1.006	7	9	130.630	-0.208	0.000	0.56	134.8	OK
1.007	8	9	130.404	-0.103	0.000	0.92	138.5	OK
1.008	9	9	130.340	-0.098	0.000	0.93	144.3	OK
1.009	10	9	130.265	-0.090	0.000	1.00	149.9	OK

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Summary Wizard of 60 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
27.000	157	9	129.407	-0.110	0.000	0.52		20.0	OK
21.006	130	9	126.297	-0.265	0.000	0.49		274.0	OK
28.000	159	9	124.136	-0.539	0.000	0.08		32.3	OK
28.001	160	10	124.033	-0.541	0.000	0.08		34.0	OK
21.007	131	10	123.983	-0.203	0.000	0.75		315.3	OK
21.008	132	10	123.875	-0.192	0.000	0.73		326.5	OK
21.009	133	10	123.769	-0.143	0.000	0.71		331.3	OK
29.000	162	9	133.331	-0.132	0.000	0.36		23.0	OK
29.001	163	9	132.378	-0.143	0.000	0.29		35.3	OK
29.002	164	9	129.171	-0.090	0.000	0.67		38.2	OK
30.000	168	9	131.230	-0.106	0.000	0.54		34.8	OK
30.001	169	9	129.858	-0.169	0.000	0.40		52.9	OK
29.003	165	9	129.001	-0.172	0.000	0.38		101.7	OK
31.000	171	9	128.260	-0.136	0.000	0.33		17.3	OK
31.001	172	9	127.657	-0.135	0.000	0.34		34.4	OK
29.004	166	9	125.185	-0.121	0.000	0.88		144.5	OK
21.010	134	10	123.669	0.029	0.000	1.59		464.4	SURCHARGED
21.011	135	10	123.630	0.007	0.000	1.07		464.3	SURCHARGED
21.012	136	11	123.569	0.000	0.000	0.90		464.5	OK
1.036	37	22	123.431	0.000	0.000	1.46		1023.2	OK
1.037	38	32	123.102	-0.293	0.000	0.86		1014.7	OK
1.038	39	32	122.814	-0.407	0.000	0.06		74.2	OK
1.039	40	32	122.799	-0.258	0.000	0.05		44.5	OK
1.040	41	27	122.093	-0.914	0.000	0.04		44.5	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
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	Scotland and Ireland Cv (Summer) 0.750		
M5-60 (mm)	14.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

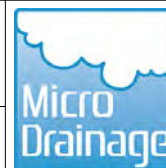
Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

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	1	13	134.696	-0.080	0.000	0.45		10.6	OK
1.001	2	13	133.426	-0.153	0.000	0.22		17.1	OK
1.002	3	13	132.405	-0.147	0.000	0.26		18.4	OK
2.000	44	13	132.209	-0.166	0.000	0.16		7.2	OK
1.003	4	13	132.007	-0.175	0.000	0.36		26.0	OK
3.000	46	13	134.383	-0.117	0.000	0.11		2.7	OK
3.001	47	13	133.841	-0.114	0.000	0.13		4.3	OK
3.002	48	13	133.214	-0.099	0.000	0.25		9.4	OK
1.004	5	13	131.827	-0.198	0.000	0.25		38.8	OK
1.005	6	13	131.082	-0.189	0.000	0.29		45.5	OK
4.000	50	13	134.362	-0.112	0.000	0.14		5.3	OK
4.001	51	13	132.598	-0.146	0.000	0.27		18.6	OK
4.002	52	13	131.486	-0.189	0.000	0.30		24.5	OK
4.003	53	13	131.252	-0.153	0.000	0.48		29.8	OK
4.004	54	13	131.149	-0.178	0.000	0.35		40.9	OK
1.006	7	13	130.575	-0.263	0.000	0.36		87.0	OK
1.007	8	13	130.311	-0.196	0.000	0.59		89.5	OK
1.008	9	13	130.246	-0.192	0.000	0.60		93.7	OK
1.009	10	13	130.170	-0.185	0.000	0.65		97.6	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	56	13	131.325	-0.075	0.000	0.50	8.3	OK
5.001	57	13	131.072	-0.149	0.000	0.25	13.8	OK
1.010	11	13	130.083	-0.206	0.000	0.57	120.4	OK
1.011	12	13	129.796	-0.244	0.000	0.53	123.4	OK
1.012	13	13	129.711	-0.236	0.000	0.59	128.3	OK
1.013	14	13	129.567	-0.310	0.000	0.35	132.5	OK
6.000	59	13	133.354	-0.091	0.000	0.33	5.5	OK
6.001	60	13	133.068	-0.154	0.000	0.22	12.3	OK
7.000	66	13	133.090	-0.110	0.000	0.16	2.7	OK
6.002	61	13	132.774	-0.144	0.000	0.28	18.2	OK
6.003	62	13	132.439	-0.129	0.000	0.38	24.1	OK
8.000	68	13	133.873	-0.105	0.000	0.19	7.6	OK
6.004	63	13	131.689	-0.126	0.000	0.40	32.4	OK
9.000	70	13	131.750	-0.168	0.000	0.14	7.1	OK
6.005	64	13	131.368	-0.197	0.000	0.26	50.6	OK
1.014	15	13	129.309	-0.267	0.000	0.59	182.6	OK
1.015	16	13	129.211	-0.288	0.000	0.53	192.1	OK
1.016	17	13	129.056	-0.199	0.000	0.67	192.5	OK
1.017	18	14	129.015	-0.184	0.000	0.65	193.1	OK
1.018	19	14	128.975	-0.160	0.000	0.81	193.6	OK
10.000	72	13	131.816	-0.104	0.000	0.20	3.7	OK
10.001	73	13	131.596	-0.104	0.000	0.21	3.7	OK
1.019	20	14	128.950	-0.155	0.000	0.90	197.1	OK
1.020	21	14	128.831	-0.252	0.000	0.64	201.1	OK
1.021	22	14	128.742	-0.253	0.000	0.63	202.2	OK
11.000	75	13	134.214	-0.164	0.000	0.16	9.4	OK
11.001	76	13	133.682	-0.160	0.000	0.18	11.6	OK
11.002	77	13	133.428	-0.130	0.000	0.37	13.4	OK
11.003	78	13	133.305	-0.134	0.000	0.34	19.1	OK
11.004	79	13	132.916	-0.124	0.000	0.42	23.2	OK
11.005	80	13	132.684	-0.107	0.000	0.54	30.9	OK
1.022	23	14	128.578	-0.323	0.000	0.54	232.8	OK
1.023	24	14	128.456	-0.337	0.000	0.50	238.8	OK
12.000	82	13	134.211	-0.097	0.000	0.27	8.3	OK
12.001	83	13	133.452	-0.157	0.000	0.20	18.6	OK
12.002	84	13	131.094	-0.103	0.000	0.57	19.3	OK
1.024	25	14	128.263	-0.318	0.000	0.55	259.9	OK
1.025	26	14	128.091	-0.295	0.000	0.61	263.5	OK
1.026	27	14	127.982	-0.297	0.000	0.60	264.3	OK
1.027	28	14	127.848	-0.317	0.000	0.55	271.1	OK
1.028	29	14	127.630	-0.252	0.000	0.71	272.0	OK
13.000	86	13	129.555	-0.090	0.000	0.34	6.9	OK
13.001	87	13	129.102	-0.092	0.000	0.32	7.8	OK
1.029	30	14	127.539	-0.285	0.000	0.63	279.4	OK
1.030	31	14	127.411	-0.294	0.000	0.61	283.8	OK
1.031	32	14	127.169	-0.367	0.000	0.43	288.2	OK
14.000	89	13	133.697	-0.140	0.000	0.30	11.8	OK
14.001	90	13	133.270	-0.111	0.000	0.51	19.2	OK
14.002	91	13	133.065	-0.095	0.000	0.63	20.9	OK



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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
7.000	157	13	129.381	-0.136	0.000	0.33	12.9	OK
1.006	130	13	126.238	-0.323	0.000	0.32	175.8	OK
8.000	159	13	124.104	-0.571	0.000	0.05	20.9	OK
8.001	160	13	123.997	-0.577	0.000	0.05	22.7	OK
1.007	131	13	123.853	-0.333	0.000	0.49	204.1	OK
1.008	132	20	123.727	-0.340	0.000	0.48	215.0	OK
1.009	133	26	123.587	-0.325	0.000	0.47	220.9	OK
9.000	162	13	133.311	-0.152	0.000	0.23	14.8	OK
9.001	163	13	132.361	-0.160	0.000	0.19	22.7	OK
9.002	164	13	129.139	-0.122	0.000	0.43	24.6	OK
0.000	168	13	131.203	-0.133	0.000	0.35	22.5	OK
0.001	169	13	129.830	-0.197	0.000	0.26	34.2	OK
9.003	165	13	128.973	-0.200	0.000	0.24	65.8	OK
1.000	171	13	128.241	-0.155	0.000	0.21	11.2	OK
1.001	172	13	127.638	-0.154	0.000	0.22	22.2	OK
9.004	166	13	125.100	-0.206	0.000	0.57	93.3	OK
1.010	134	27	123.465	-0.176	0.000	1.06	310.8	OK
1.011	135	28	123.382	-0.240	0.000	0.71	310.7	OK
1.012	136	28	123.326	-0.243	0.000	0.61	312.0	OK
1.036	37	28	123.236	-0.195	0.000	1.08	761.7	OK
1.037	38	36	122.969	-0.426	0.000	0.65	761.0	OK
1.038	39	29	122.915	-0.306	0.000	0.05	63.1	OK
1.039	40	30	122.893	-0.163	0.000	0.05	44.5	OK
1.040	41	26	122.093	-0.914	0.000	0.04	44.5	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
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	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	17	134.686	-0.090	0.000	0.34		8.1	OK
1.001	2	17	133.416	-0.163	0.000	0.17		13.0	OK
1.002	3	17	132.395	-0.157	0.000	0.20		14.0	OK
2.000	44	17	132.201	-0.174	0.000	0.12		5.5	OK
1.003	4	17	131.989	-0.193	0.000	0.28		19.8	OK
3.000	46	17	134.379	-0.121	0.000	0.08		2.1	OK
3.001	47	17	133.837	-0.118	0.000	0.10		3.3	OK
3.002	48	17	133.208	-0.105	0.000	0.19		7.2	OK
1.004	5	17	131.814	-0.211	0.000	0.19		29.6	OK
1.005	6	17	131.067	-0.204	0.000	0.22		34.7	OK
4.000	50	17	134.357	-0.117	0.000	0.11		4.0	OK
4.001	51	17	132.588	-0.156	0.000	0.20		14.2	OK
4.002	52	17	131.471	-0.204	0.000	0.23		18.6	OK
4.003	53	17	131.231	-0.174	0.000	0.37		22.7	OK
4.004	54	17	131.132	-0.195	0.000	0.27		31.2	OK
1.006	7	17	130.548	-0.290	0.000	0.28		66.3	OK
1.007	8	17	130.272	-0.235	0.000	0.45		68.3	OK
1.008	9	17	130.206	-0.232	0.000	0.46		71.5	OK
1.009	10	17	130.129	-0.226	0.000	0.50		74.6	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for SW1.SWS


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)	
5.000	56	17	131.314	-0.086	0.000	0.38	6.3	OK
5.001	57	17	131.062	-0.159	0.000	0.19	10.5	OK
1.010	11	17	130.047	-0.242	0.000	0.44	92.2	OK
1.011	12	17	129.754	-0.286	0.000	0.41	94.5	OK
1.012	13	17	129.668	-0.279	0.000	0.45	98.3	OK
1.013	14	17	129.537	-0.340	0.000	0.27	101.7	OK
6.000	59	17	133.345	-0.100	0.000	0.25	4.2	OK
6.001	60	17	133.058	-0.164	0.000	0.17	9.4	OK
7.000	66	17	133.085	-0.115	0.000	0.12	2.1	OK
6.002	61	17	132.764	-0.154	0.000	0.22	13.8	OK
6.003	62	17	132.426	-0.142	0.000	0.29	18.4	OK
8.000	68	17	133.866	-0.112	0.000	0.15	5.8	OK
6.004	63	17	131.675	-0.140	0.000	0.31	24.7	OK
9.000	70	17	131.743	-0.175	0.000	0.11	5.4	OK
6.005	64	17	131.355	-0.210	0.000	0.20	38.5	OK
1.014	15	17	129.260	-0.316	0.000	0.46	140.4	OK
1.015	16	17	129.166	-0.333	0.000	0.41	148.1	OK
1.016	17	17	128.986	-0.269	0.000	0.52	148.9	OK
1.017	18	17	128.943	-0.257	0.000	0.50	149.5	OK
1.018	19	17	128.901	-0.234	0.000	0.62	149.9	OK
10.000	72	17	131.809	-0.111	0.000	0.15	2.8	OK
10.001	73	17	131.590	-0.110	0.000	0.16	2.8	OK
1.019	20	17	128.876	-0.229	0.000	0.70	152.8	OK
1.020	21	17	128.781	-0.302	0.000	0.49	156.1	OK
1.021	22	17	128.692	-0.303	0.000	0.49	157.1	OK
11.000	75	17	134.206	-0.172	0.000	0.13	7.2	OK
11.001	76	17	133.673	-0.169	0.000	0.14	8.8	OK
11.002	77	17	133.414	-0.144	0.000	0.28	10.2	OK
11.003	78	17	133.292	-0.147	0.000	0.26	14.5	OK
11.004	79	17	132.902	-0.138	0.000	0.32	17.7	OK
11.005	80	17	132.667	-0.124	0.000	0.41	23.5	OK
1.022	23	17	128.530	-0.371	0.000	0.42	182.0	OK
1.023	24	17	128.411	-0.383	0.000	0.39	187.1	OK
12.000	82	17	134.204	-0.104	0.000	0.21	6.3	OK
12.001	83	17	133.443	-0.166	0.000	0.15	14.2	OK
12.002	84	17	131.076	-0.121	0.000	0.44	14.7	OK
1.024	25	17	128.215	-0.365	0.000	0.43	204.8	OK
1.025	26	17	128.040	-0.346	0.000	0.48	208.0	OK
1.026	27	17	127.931	-0.348	0.000	0.48	208.7	OK
1.027	28	17	127.801	-0.363	0.000	0.44	214.9	OK
1.028	29	17	127.571	-0.311	0.000	0.57	216.0	OK
13.000	86	17	129.547	-0.098	0.000	0.26	5.2	OK
13.001	87	17	129.094	-0.100	0.000	0.25	5.9	OK
1.029	30	17	127.488	-0.336	0.000	0.50	222.9	OK
1.030	31	17	127.362	-0.342	0.000	0.49	227.1	OK
1.031	32	17	127.133	-0.402	0.000	0.34	231.3	OK
14.000	89	17	133.685	-0.152	0.000	0.23	9.0	OK
14.001	90	17	133.254	-0.128	0.000	0.39	14.7	OK
14.002	91	17	133.046	-0.115	0.000	0.48	16.0	OK

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Summary Wizard of 180 minute 30 year Winter I+0% for SW1.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)	
27.000	157	17	129.369	-0.148	0.000	0.25	9.8	OK	
21.006	130	17	126.211	-0.351	0.000	0.24	134.5	OK	
28.000	159	17	124.091	-0.584	0.000	0.04	15.9	OK	
28.001	160	17	123.985	-0.589	0.000	0.04	17.3	OK	
21.007	131	17	123.803	-0.383	0.000	0.37	156.3	OK	
21.008	132	28	123.676	-0.391	0.000	0.37	165.3	OK	
21.009	133	29	123.522	-0.390	0.000	0.36	170.3	OK	
29.000	162	17	133.301	-0.162	0.000	0.18	11.3	OK	
29.001	163	17	132.352	-0.169	0.000	0.14	17.3	OK	
29.002	164	17	129.125	-0.136	0.000	0.33	18.8	OK	
30.000	168	17	131.190	-0.146	0.000	0.27	17.2	OK	
30.001	169	17	129.817	-0.210	0.000	0.20	26.1	OK	
29.003	165	17	128.960	-0.213	0.000	0.19	50.2	OK	
31.000	171	17	128.232	-0.164	0.000	0.16	8.5	OK	
31.001	172	17	127.628	-0.164	0.000	0.16	16.9	OK	
29.004	166	17	125.063	-0.243	0.000	0.44	71.1	OK	
21.010	134	29	123.375	-0.265	0.000	0.82	240.3	OK	
21.011	135	29	123.296	-0.327	0.000	0.55	240.4	OK	
21.012	136	29	123.234	-0.335	0.000	0.47	242.0	OK	
1.036	37	32	123.131	-0.300	0.000	0.87	612.4	OK	
1.037	38	35	123.028	-0.366	0.000	0.52	612.0	OK	
1.038	39	27	122.968	-0.253	0.000	0.05	58.5	OK	
1.039	40	28	122.937	-0.119	0.000	0.05	44.5	OK	
1.040	41	21	122.093	-0.914	0.000	0.04	44.5	OK	

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Summary Wizard of 240 minute 30 year Winter I+0% for SW1.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)	
27.000	157	19	129.361	-0.156	0.000	0.21	8.1	OK	
21.006	130	19	126.195	-0.367	0.000	0.20	110.6	OK	
28.000	159	19	124.083	-0.592	0.000	0.03	13.1	OK	
28.001	160	19	123.978	-0.596	0.000	0.03	14.2	OK	
21.007	131	24	123.773	-0.413	0.000	0.31	128.6	OK	
21.008	132	29	123.647	-0.420	0.000	0.31	136.1	OK	
21.009	133	30	123.489	-0.423	0.000	0.30	140.2	OK	
29.000	162	19	133.295	-0.168	0.000	0.15	9.3	OK	
29.001	163	19	132.347	-0.174	0.000	0.12	14.2	OK	
29.002	164	19	129.115	-0.146	0.000	0.27	15.4	OK	
30.000	168	19	131.182	-0.154	0.000	0.22	14.1	OK	
30.001	169	19	129.807	-0.220	0.000	0.16	21.5	OK	
29.003	165	19	128.951	-0.222	0.000	0.15	41.2	OK	
31.000	171	19	128.226	-0.170	0.000	0.13	7.0	OK	
31.001	172	19	127.622	-0.170	0.000	0.14	13.9	OK	
29.004	166	19	125.041	-0.265	0.000	0.36	58.4	OK	
21.010	134	30	123.330	-0.311	0.000	0.68	198.1	OK	
21.011	135	30	123.239	-0.384	0.000	0.46	198.2	OK	
21.012	136	30	123.172	-0.397	0.000	0.39	199.8	OK	
1.036	37	36	123.078	-0.353	0.000	0.73	514.5	OK	
1.037	38	34	123.066	-0.328	0.000	0.44	513.1	OK	
1.038	39	26	123.001	-0.221	0.000	0.05	56.0	OK	
1.039	40	25	122.959	-0.097	0.000	0.05	44.5	OK	
1.040	41	19	122.093	-0.914	0.000	0.04	44.5	OK	

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Summary Wizard of 360 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 20.000
 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 Scotland and Ireland Cv (Summer) 0.750
 M5-60 (mm) 14.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status ON
 Inertia Status OFF

Profile(s) Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 30, 100, 200
 Climate Change (%) 0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	24	134.673	-0.103	0.000	0.21		5.0	OK
1.001	2	24	133.403	-0.176	0.000	0.11		8.1	OK
1.002	3	24	132.379	-0.173	0.000	0.12		8.7	OK
2.000	44	24	132.190	-0.185	0.000	0.07		3.4	OK
1.003	4	24	131.965	-0.217	0.000	0.17		12.3	OK
3.000	46	24	134.372	-0.128	0.000	0.05		1.3	OK
3.001	47	24	133.829	-0.126	0.000	0.06		2.0	OK
3.002	48	24	133.197	-0.116	0.000	0.12		4.4	OK
1.004	5	24	131.793	-0.232	0.000	0.12		18.3	OK
1.005	6	24	131.045	-0.226	0.000	0.14		21.5	OK
4.000	50	24	134.349	-0.125	0.000	0.07		2.5	OK
4.001	51	24	132.572	-0.172	0.000	0.13		8.8	OK
4.002	52	24	131.449	-0.226	0.000	0.14		11.6	OK
4.003	53	24	131.202	-0.203	0.000	0.23		14.1	OK
4.004	54	24	131.108	-0.219	0.000	0.17		19.4	OK
1.006	7	24	130.512	-0.326	0.000	0.17		41.1	OK
1.007	8	24	130.220	-0.287	0.000	0.28		42.4	OK
1.008	9	24	130.154	-0.284	0.000	0.28		44.4	OK
1.009	10	24	130.076	-0.279	0.000	0.31		46.3	OK



Micro
Drainage

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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
5.000	56	24	131.299	-0.101	0.000	0.24	3.9	OK
5.001	57	24	131.047	-0.174	0.000	0.12	6.5	OK
1.010	11	24	129.998	-0.291	0.000	0.27	57.3	OK
1.011	12	24	129.697	-0.343	0.000	0.25	58.8	OK
1.012	13	24	129.610	-0.337	0.000	0.28	61.3	OK
1.013	14	24	129.496	-0.381	0.000	0.17	63.4	OK
6.000	59	24	133.334	-0.111	0.000	0.15	2.6	OK
6.001	60	24	133.045	-0.177	0.000	0.10	5.8	OK
7.000	66	24	133.077	-0.123	0.000	0.08	1.3	OK
6.002	61	24	132.747	-0.171	0.000	0.13	8.6	OK
6.003	62	24	132.407	-0.161	0.000	0.18	11.4	OK
8.000	68	24	133.858	-0.120	0.000	0.09	3.6	OK
6.004	63	24	131.656	-0.159	0.000	0.19	15.3	OK
9.000	70	24	131.731	-0.187	0.000	0.07	3.3	OK
6.005	64	24	131.334	-0.231	0.000	0.12	23.9	OK
1.014	15	24	129.193	-0.383	0.000	0.29	87.7	OK
1.015	16	24	129.104	-0.394	0.000	0.26	92.6	OK
1.016	17	24	128.901	-0.354	0.000	0.33	93.4	OK
1.017	18	24	128.854	-0.346	0.000	0.32	93.9	OK
1.018	19	24	128.808	-0.327	0.000	0.39	94.2	OK
0.000	72	24	131.801	-0.119	0.000	0.10	1.7	OK
0.001	73	24	131.581	-0.119	0.000	0.10	1.7	OK
1.019	20	24	128.783	-0.322	0.000	0.44	96.0	OK
1.020	21	24	128.712	-0.372	0.000	0.31	98.2	OK
1.021	22	24	128.623	-0.372	0.000	0.31	98.9	OK
1.000	75	24	134.194	-0.184	0.000	0.08	4.4	OK
1.001	76	24	133.662	-0.180	0.000	0.09	5.5	OK
1.002	77	24	133.396	-0.162	0.000	0.18	6.4	OK
1.003	78	24	133.275	-0.165	0.000	0.16	9.0	OK
1.004	79	24	132.883	-0.157	0.000	0.20	11.0	OK
1.005	80	24	132.643	-0.148	0.000	0.26	14.6	OK
1.022	23	24	128.462	-0.440	0.000	0.26	115.1	OK
1.023	24	24	128.346	-0.448	0.000	0.25	118.5	OK
2.000	82	24	134.194	-0.114	0.000	0.13	3.9	OK
2.001	83	24	133.430	-0.179	0.000	0.10	8.8	OK
2.002	84	24	131.051	-0.146	0.000	0.27	9.1	OK
1.024	25	24	128.146	-0.435	0.000	0.28	130.2	OK
1.025	26	24	127.965	-0.421	0.000	0.30	132.4	OK
1.026	27	24	127.857	-0.422	0.000	0.30	132.9	OK
1.027	28	24	127.731	-0.433	0.000	0.28	137.3	OK
1.028	29	24	127.487	-0.395	0.000	0.36	138.1	OK
3.000	86	24	129.535	-0.110	0.000	0.16	3.2	OK
3.001	87	24	129.083	-0.111	0.000	0.15	3.7	OK
1.029	30	24	127.412	-0.412	0.000	0.32	142.9	OK
1.030	31	24	127.288	-0.416	0.000	0.31	146.0	OK
1.031	32	24	127.075	-0.461	0.000	0.22	149.1	OK
4.000	89	24	133.669	-0.168	0.000	0.14	5.6	OK
4.001	90	24	133.23					



Micro
Drainage


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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	100	24	136.522	-0.104	0.000	0.21	3.8	OK
5.001	101	24	135.729	-0.097	0.000	0.27	6.6	OK
6.000	105	24	133.212	-0.177	0.000	0.10	6.0	OK
6.001	106	24	132.607	-0.146	0.000	0.27	10.3	OK
5.002	102	24	132.224	-0.184	0.000	0.32	17.2	OK
5.003	103	24	132.183	-0.191	0.000	0.29	20.2	OK
4.003	92	24	131.919	-0.233	0.000	0.31	33.1	OK
4.004	93	24	131.739	-0.304	0.000	0.23	37.1	OK
4.005	94	24	131.642	-0.296	0.000	0.26	40.6	OK
4.006	95	24	131.524	-0.325	0.000	0.17	47.5	OK
4.007	96	24	131.116	-0.367	0.000	0.08	50.8	OK
7.000	108	24	132.277	-0.179	0.000	0.09	6.0	OK
7.001	109	24	131.740	-0.175	0.000	0.11	7.8	OK
7.002	110	24	131.024	-0.153	0.000	0.23	15.2	OK
7.003	111	24	129.862	-0.223	0.000	0.15	16.6	OK
7.004	112	24	129.569	-0.186	0.000	0.31	17.5	OK
7.005	113	24	129.520	-0.190	0.000	0.29	21.5	OK
8.000	117	24	129.346	-0.117	0.000	0.11	1.9	OK
9.000	119	24	131.365	-0.122	0.000	0.08	2.5	OK
7.006	114	24	128.881	-0.225	0.000	0.34	25.8	OK
7.007	115	24	128.818	-0.272	0.000	0.17	29.8	OK
4.008	97	24	128.287	-0.280	0.000	0.31	80.6	OK
4.009	98	24	128.027	-0.324	0.000	0.18	84.2	OK
1.032	33	24	126.529	-0.460	0.000	0.22	232.1	OK
1.033	34	24	125.846	-0.464	0.000	0.22	234.1	OK
0.000	121	24	127.923	-0.111	0.000	0.15	5.9	OK
0.001	122	24	126.172	-0.100	0.000	0.25	7.5	OK
1.034	35	24	124.996	-0.491	0.000	0.31	245.6	OK
1.035	36	24	124.843	-0.400	0.000	0.53	245.5	OK
1.000	124	24	133.288	-0.117	0.000	0.11	3.4	OK
1.001	125	24	131.963	-0.178	0.000	0.10	10.2	OK
1.002	126	24	129.455	-0.241	0.000	0.09	17.5	OK
1.003	127	24	126.548	-0.259	0.000	0.21	22.3	OK
2.000	138	24	134.984	-0.116	0.000	0.12	2.8	OK
2.001	139	24	133.719	-0.175	0.000	0.11	10.4	OK
3.000	144	24	135.575	-0.125	0.000	0.06	1.6	OK
3.001	145	24	134.611	-0.110	0.000	0.16	5.8	OK
4.000	148	24	134.841	-0.114	0.000	0.13	4.4	OK
3.002	146	24	132.861	-0.170	0.000	0.14	14.0	OK
2.002	140	24	131.026	-0.227	0.000	0.13	27.3	OK
2.003	141	24	129.665	-0.221	0.000	0.16	29.0	OK
2.004	142	24	129.056	-0.219	0.000	0.16	29.8	OK
1.004	128	24	126.351	-0.314	0.000	0.24	54.7	OK
5.000	150	24	136.570	-0.105	0.000	0.20	3.4	OK
5.001	151	24	136.057	-0.106	0.000	0.19	8.5	OK
6.000	155	24	132.719	-0.102	0.000	0.22	3.8	OK
5.002	152	24	132.240	-0.162	0.000	0.		

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Summary Wizard of 360 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Cap.	Overflow (1/s)	Pipe Flow (1/s)	Status
			(m)	(m)	(m ³)				
27.000	157	24	129.351	-0.166	0.000	0.16		6.1	OK
21.006	130	24	126.171	-0.390	0.000	0.15		83.5	OK
28.000	159	24	124.074	-0.601	0.000	0.02		9.9	OK
28.001	160	24	123.970	-0.604	0.000	0.02		10.8	OK
21.007	131	27	123.736	-0.450	0.000	0.23		97.1	OK
21.008	132	30	123.611	-0.456	0.000	0.23		102.8	OK
21.009	133	31	123.454	-0.458	0.000	0.23		106.1	OK
29.000	162	24	133.287	-0.176	0.000	0.11		7.0	OK
29.001	163	24	132.341	-0.180	0.000	0.09		10.7	OK
29.002	164	24	129.105	-0.156	0.000	0.20		11.6	OK
30.000	168	24	131.172	-0.164	0.000	0.17		10.7	OK
30.001	169	24	129.796	-0.231	0.000	0.12		16.2	OK
29.003	165	24	128.941	-0.232	0.000	0.12		31.1	OK
31.000	171	24	128.219	-0.177	0.000	0.10		5.3	OK
31.001	172	24	127.615	-0.177	0.000	0.10		10.5	OK
29.004	166	24	125.014	-0.292	0.000	0.27		44.1	OK
21.010	134	31	123.271	-0.370	0.000	0.51		150.0	OK
21.011	135	31	123.176	-0.447	0.000	0.34		150.1	OK
21.012	136	34	123.144	-0.426	0.000	0.29		151.5	OK
1.036	37	34	123.120	-0.311	0.000	0.56		395.7	OK
1.037	38	31	123.107	-0.288	0.000	0.34		394.6	OK
1.038	39	24	123.035	-0.186	0.000	0.05		53.5	OK
1.039	40	24	122.976	-0.081	0.000	0.05		44.5	OK
1.040	41	17	122.093	-0.914	0.000	0.04		44.5	OK

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Summary Wizard of 480 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 20.000
 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 Scotland and Ireland Cv (Summer) 0.750
 M5-60 (mm) 14.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status ON
 Inertia Status OFF

Profile(s) Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 30, 100, 200
 Climate Change (%) 0, 0, 0


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	27	134.668	-0.108	0.000	0.17		4.1	OK
1.001	2	27	133.398	-0.181	0.000	0.09		6.6	OK
1.002	3	27	132.375	-0.177	0.000	0.10		7.1	OK
2.000	44	27	132.185	-0.190	0.000	0.06		2.8	OK
1.003	4	27	131.956	-0.226	0.000	0.14		10.1	OK
3.000	46	27	134.370	-0.130	0.000	0.04		1.1	OK
3.001	47	27	133.827	-0.128	0.000	0.05		1.7	OK
3.002	48	27	133.194	-0.119	0.000	0.10		3.6	OK
1.004	5	27	131.787	-0.238	0.000	0.10		15.0	OK
1.005	6	27	131.038	-0.233	0.000	0.11		17.6	OK
4.000	50	27	134.347	-0.127	0.000	0.06		2.0	OK
4.001	51	27	132.567	-0.177	0.000	0.10		7.2	OK
4.002	52	27	131.442	-0.233	0.000	0.11		9.4	OK
4.003	53	27	131.192	-0.213	0.000	0.19		11.5	OK
4.004	54	27	131.100	-0.227	0.000	0.14		15.8	OK
1.006	7	27	130.499	-0.339	0.000	0.14		33.6	OK
1.007	8	27	130.203	-0.304	0.000	0.23		34.6	OK
1.008	9	27	130.136	-0.302	0.000	0.23		36.3	OK
1.009	10	27	130.058	-0.297	0.000	0.25		37.9	OK



Micro
Drainage


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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow (l/s)	Flow (l/s)	
5.000	56	27	131.294	-0.106	0.000	0.19	3.2	OK
5.001	57	27	131.043	-0.178	0.000	0.10	5.3	OK
1.010	11	27	129.982	-0.307	0.000	0.22	46.9	OK
1.011	12	27	129.679	-0.361	0.000	0.21	48.1	OK
1.012	13	27	129.591	-0.356	0.000	0.23	50.1	OK
1.013	14	27	129.482	-0.396	0.000	0.14	51.9	OK
6.000	59	27	133.330	-0.115	0.000	0.13	2.1	OK
6.001	60	27	133.041	-0.181	0.000	0.08	4.8	OK
7.000	66	27	133.074	-0.126	0.000	0.06	1.1	OK
6.002	61	27	132.742	-0.176	0.000	0.11	7.0	OK
6.003	62	27	132.400	-0.168	0.000	0.15	9.3	OK
8.000	68	27	133.855	-0.123	0.000	0.07	2.9	OK
6.004	63	27	131.649	-0.166	0.000	0.16	12.5	OK
9.000	70	27	131.727	-0.191	0.000	0.06	2.7	OK
6.005	64	27	131.328	-0.237	0.000	0.10	19.5	OK
1.014	15	27	129.172	-0.404	0.000	0.23	71.9	OK
1.015	16	27	129.085	-0.414	0.000	0.21	75.9	OK
1.016	17	27	128.874	-0.381	0.000	0.27	76.6	OK
1.017	18	27	128.826	-0.374	0.000	0.26	76.9	OK
1.018	19	27	128.779	-0.356	0.000	0.32	77.2	OK
0.000	72	27	131.798	-0.122	0.000	0.08	1.4	OK
0.001	73	27	131.578	-0.122	0.000	0.08	1.4	OK
1.019	20	27	128.754	-0.352	0.000	0.36	78.7	OK
1.020	21	27	128.688	-0.395	0.000	0.25	80.5	OK
1.021	22	27	128.599	-0.396	0.000	0.25	81.1	OK
1.000	75	27	134.190	-0.188	0.000	0.06	3.6	OK
1.001	76	27	133.656	-0.186	0.000	0.07	4.5	OK
1.002	77	27	133.389	-0.169	0.000	0.14	5.2	OK
1.003	78	27	133.268	-0.171	0.000	0.13	7.4	OK
1.004	79	27	132.875	-0.165	0.000	0.16	9.0	OK
1.005	80	27	132.636	-0.155	0.000	0.21	11.9	OK
1.022	23	27	128.439	-0.463	0.000	0.22	94.4	OK
1.023	24	27	128.324	-0.469	0.000	0.20	97.3	OK
2.000	82	27	134.190	-0.118	0.000	0.11	3.2	OK
2.001	83	27	133.425	-0.184	0.000	0.08	7.2	OK
2.002	84	27	131.043	-0.154	0.000	0.22	7.4	OK
1.024	25	27	128.122	-0.459	0.000	0.23	107.0	OK
1.025	26	27	127.939	-0.447	0.000	0.25	108.8	OK
1.026	27	27	127.831	-0.448	0.000	0.25	109.3	OK
1.027	28	27	127.707	-0.457	0.000	0.23	112.9	OK
1.028	29	27	127.458	-0.424	0.000	0.30	113.6	OK
3.000	86	27	129.531	-0.114	0.000	0.13	2.7	OK
3.001	87	27	129.079	-0.115	0.000	0.12	3.0	OK
1.029	30	27	127.384	-0.439	0.000	0.27	117.6	OK
1.030	31	27	127.261	-0.443	0.000	0.26	120.2	OK
1.031	32	27	127.054	-0.481	0.000	0.18	122.9	OK
4.000	89	27	133.663	-0.174	0.000	0.12	4.6	OK
4.001	90	27	133.224					

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Summary Wizard of 480 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
			(m)	(m)	(m³)				
27.000	157	27	129.345	-0.172	0.000	0.13		5.0	OK
21.006	130	27	126.158	-0.403	0.000	0.12		68.3	OK
28.000	159	27	124.069	-0.606	0.000	0.02		8.1	OK
28.001	160	27	123.962	-0.612	0.000	0.02		8.8	OK
21.007	131	31	123.715	-0.471	0.000	0.19		79.4	OK
21.008	132	32	123.589	-0.478	0.000	0.19		84.1	OK
21.009	133	32	123.432	-0.480	0.000	0.19		86.8	OK
29.000	162	27	133.283	-0.180	0.000	0.09		5.7	OK
29.001	163	27	132.335	-0.186	0.000	0.07		8.8	OK
29.002	164	27	129.097	-0.164	0.000	0.17		9.5	OK
30.000	168	27	131.166	-0.170	0.000	0.14		8.7	OK
30.001	169	27	129.790	-0.237	0.000	0.10		13.2	OK
29.003	165	27	128.935	-0.238	0.000	0.09		25.4	OK
31.000	171	27	128.214	-0.182	0.000	0.08		4.3	OK
31.001	172	27	127.610	-0.182	0.000	0.08		8.6	OK
29.004	166	27	124.999	-0.307	0.000	0.22		36.0	OK
21.010	134	32	123.228	-0.412	0.000	0.42		122.7	OK
21.011	135	33	123.167	-0.456	0.000	0.28		122.9	OK
21.012	136	32	123.156	-0.413	0.000	0.24		124.2	OK
1.036	37	31	123.138	-0.293	0.000	0.46		326.4	OK
1.037	38	27	123.124	-0.270	0.000	0.28		325.5	OK
1.038	39	21	123.050	-0.172	0.000	0.05		55.0	OK
1.039	40	22	122.985	-0.072	0.000	0.05		44.5	OK
1.040	41	12	122.093	-0.914	0.000	0.04		44.5	OK

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Summary Wizard of 600 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
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	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	30	134.664	-0.112	0.000	0.15		3.5	OK
1.001	2	30	133.394	-0.185	0.000	0.07		5.6	OK
1.002	3	30	132.371	-0.181	0.000	0.09		6.1	OK
2.000	44	30	132.183	-0.192	0.000	0.05		2.4	OK
1.003	4	30	131.951	-0.231	0.000	0.12		8.6	OK
3.000	46	30	134.368	-0.132	0.000	0.04		0.9	OK
3.001	47	30	133.825	-0.130	0.000	0.04		1.4	OK
3.002	48	30	133.192	-0.121	0.000	0.08		3.1	OK
1.004	5	30	131.783	-0.242	0.000	0.08		12.8	OK
1.005	6	30	131.033	-0.238	0.000	0.10		15.0	OK
4.000	50	30	134.345	-0.129	0.000	0.05		1.7	OK
4.001	51	30	132.564	-0.180	0.000	0.09		6.1	OK
4.002	52	30	131.438	-0.237	0.000	0.10		8.1	OK
4.003	53	30	131.185	-0.220	0.000	0.16		9.8	OK
4.004	54	30	131.095	-0.232	0.000	0.12		13.5	OK
1.006	7	30	130.491	-0.347	0.000	0.12		28.7	OK
1.007	8	30	130.192	-0.315	0.000	0.20		29.6	OK
1.008	9	30	130.125	-0.313	0.000	0.20		31.0	OK
1.009	10	30	130.046	-0.309	0.000	0.22		32.4	OK

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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)	
5.000	100	30	136.514	-0.112	0.000	0.15	2.7	OK
5.001	101	30	135.720	-0.106	0.000	0.19	4.6	OK
6.000	105	30	133.204	-0.185	0.000	0.07	4.2	OK
6.001	106	30	132.593	-0.160	0.000	0.19	7.2	OK
5.002	102	30	132.204	-0.204	0.000	0.22	12.0	OK
5.003	103	30	132.164	-0.209	0.000	0.20	14.1	OK
4.003	92	30	131.894	-0.257	0.000	0.22	23.2	OK
4.004	93	30	131.713	-0.330	0.000	0.16	26.0	OK
4.005	94	30	131.616	-0.322	0.000	0.18	28.4	OK
4.006	95	30	131.503	-0.346	0.000	0.12	33.2	OK
4.007	96	30	131.101	-0.382	0.000	0.05	35.6	OK
7.000	108	30	132.268	-0.188	0.000	0.06	4.2	OK
7.001	109	30	131.732	-0.183	0.000	0.08	5.5	OK
7.002	110	30	131.012	-0.165	0.000	0.16	10.6	OK
7.003	111	30	129.849	-0.236	0.000	0.10	11.6	OK
7.004	112	30	129.549	-0.206	0.000	0.22	12.2	OK
7.005	113	30	129.502	-0.209	0.000	0.20	15.0	OK
8.000	117	30	129.341	-0.122	0.000	0.08	1.3	OK
9.000	119	30	131.360	-0.127	0.000	0.06	1.7	OK
7.006	114	30	128.854	-0.252	0.000	0.24	18.1	OK
7.007	115	30	128.800	-0.289	0.000	0.12	20.8	OK
4.008	97	30	128.258	-0.309	0.000	0.22	56.4	OK
4.009	98	30	128.005	-0.346	0.000	0.12	58.9	OK
1.032	33	30	126.492	-0.497	0.000	0.16	164.6	OK
1.033	34	30	125.810	-0.500	0.000	0.15	166.0	OK
0.000	121	30	127.917	-0.117	0.000	0.11	4.1	OK
0.001	122	30	126.163	-0.108	0.000	0.17	5.2	OK
1.034	35	30	124.932	-0.555	0.000	0.22	174.3	OK
1.035	36	30	124.767	-0.477	0.000	0.37	174.3	OK
1.000	124	30	133.282	-0.123	0.000	0.08	2.4	OK
1.001	125	30	131.954	-0.187	0.000	0.07	7.1	OK
1.002	126	30	129.443	-0.253	0.000	0.06	12.3	OK
1.003	127	30	126.528	-0.279	0.000	0.15	15.5	OK
2.000	138	30	134.979	-0.121	0.000	0.08	2.0	OK
2.001	139	30	133.711	-0.183	0.000	0.08	7.3	OK
3.000	144	30	135.570	-0.130	0.000	0.04	1.1	OK
3.001	145	30	134.604	-0.117	0.000	0.11	4.1	OK
4.000	148	30	134.836	-0.119	0.000	0.09	3.1	OK
3.002	146	30	132.852	-0.179	0.000	0.09	9.8	OK
2.002	140	30	131.014	-0.239	0.000	0.09	19.0	OK
2.003	141	30	129.652	-0.234	0.000	0.11	20.3	OK
2.004	142	30	129.042	-0.233	0.000	0.11	20.8	OK
1.004	128	30	126.309	-0.357	0.000	0.17	38.2	OK
5.000	150	30	136.562	-0.113	0.000	0.14	2.4	OK
5.001	151	30	136.049	-0.114	0.000	0.13	6.0	OK
6.000	155	30	132.710	-0.111	0.000	0.16	2.7	OK
5.002	152	30	132.229	-0.173	0.000	0.12	9.5</	

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Summary Wizard of 600 minute 30 year Winter I+0% for SW1.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)	
27.000	157	30	129.341	-0.176	0.000	0.11	4.2	OK	
21.006	130	30	126.150	-0.412	0.000	0.10	58.3	OK	
28.000	159	30	124.061	-0.614	0.000	0.02	6.9	OK	
28.001	160	30	123.953	-0.621	0.000	0.02	7.5	OK	
21.007	131	32	123.697	-0.489	0.000	0.16	67.9	OK	
21.008	132	33	123.572	-0.495	0.000	0.16	71.9	OK	
21.009	133	33	123.416	-0.496	0.000	0.16	74.2	OK	
29.000	162	30	133.279	-0.184	0.000	0.08	4.9	OK	
29.001	163	30	132.332	-0.189	0.000	0.06	7.5	OK	
29.002	164	30	129.092	-0.169	0.000	0.14	8.1	OK	
30.000	168	30	131.162	-0.174	0.000	0.12	7.4	OK	
30.001	169	30	129.785	-0.242	0.000	0.08	11.3	OK	
29.003	165	30	128.930	-0.243	0.000	0.08	21.7	OK	
31.000	171	30	128.210	-0.186	0.000	0.07	3.7	OK	
31.001	172	30	127.606	-0.186	0.000	0.07	7.3	OK	
29.004	166	30	124.988	-0.318	0.000	0.19	30.8	OK	
21.010	134	33	123.200	-0.440	0.000	0.36	105.0	OK	
21.011	135	32	123.169	-0.454	0.000	0.24	105.1	OK	
21.012	136	31	123.158	-0.411	0.000	0.21	106.2	OK	
1.036	37	29	123.143	-0.288	0.000	0.40	279.4	OK	
1.037	38	26	123.129	-0.266	0.000	0.24	278.5	OK	
1.038	39	20	123.053	-0.169	0.000	0.05	54.5	OK	
1.039	40	20	122.988	-0.068	0.000	0.05	44.5	OK	
1.040	41	5	122.093	-0.914	0.000	0.04	44.5	OK	

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Summary Wizard of 720 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 20.000
 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 Scotland and Ireland Cv (Summer) 0.750
 M5-60 (mm) 14.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status ON
 Inertia Status OFF

Profile(s) Winter
 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600,
 720, 960, 1440
 Return Period(s) (years) 30, 100, 200
 Climate Change (%) 0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	32	134.662	-0.114	0.000	0.13		3.1	OK
1.001	2	32	133.391	-0.188	0.000	0.06		5.0	OK
1.002	3	32	132.368	-0.184	0.000	0.08		5.3	OK
2.000	44	32	132.180	-0.195	0.000	0.04		2.1	OK
1.003	4	32	131.947	-0.235	0.000	0.11		7.6	OK
3.000	46	32	134.367	-0.133	0.000	0.03		0.8	OK
3.001	47	32	133.824	-0.131	0.000	0.04		1.3	OK
3.002	48	32	133.190	-0.123	0.000	0.07		2.7	OK
1.004	5	32	131.778	-0.247	0.000	0.07		11.3	OK
1.005	6	32	131.030	-0.241	0.000	0.09		13.2	OK
4.000	50	32	134.344	-0.130	0.000	0.04		1.5	OK
4.001	51	32	132.560	-0.184	0.000	0.08		5.4	OK
4.002	52	32	131.434	-0.241	0.000	0.09		7.1	OK
4.003	53	32	131.179	-0.226	0.000	0.14		8.6	OK
4.004	54	32	131.091	-0.236	0.000	0.10		11.9	OK
1.006	7	32	130.485	-0.353	0.000	0.11		25.3	OK
1.007	8	32	130.183	-0.324	0.000	0.17		26.0	OK
1.008	9	32	130.116	-0.322	0.000	0.17		27.3	OK
1.009	10	32	130.037	-0.318	0.000	0.19		28.5	OK




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Drainage

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PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
15.000	100	32	136.511	-0.115	0.000	0.13	2.3	OK
15.001	101	32	135.717	-0.109	0.000	0.17	4.0	OK
16.000	105	32	133.201	-0.188	0.000	0.06	3.7	OK
16.001	106	32	132.589	-0.164	0.000	0.16	6.4	OK
15.002	102	32	132.198	-0.210	0.000	0.20	10.6	OK
15.003	103	32	132.158	-0.216	0.000	0.18	12.4	OK
14.003	92	32	131.887	-0.265	0.000	0.19	20.4	OK
14.004	93	32	131.705	-0.338	0.000	0.14	22.8	OK
14.005	94	32	131.607	-0.331	0.000	0.16	25.0	OK
14.006	95	32	131.497	-0.353	0.000	0.11	29.2	OK
14.007	96	32	131.096	-0.387	0.000	0.05	31.3	OK
17.000	108	32	132.265	-0.191	0.000	0.06	3.7	OK
17.001	109	32	131.729	-0.186	0.000	0.07	4.8	OK
17.002	110	32	131.008	-0.169	0.000	0.14	9.4	OK
17.003	111	32	129.846	-0.239	0.000	0.09	10.2	OK
17.004	112	32	129.543	-0.212	0.000	0.19	10.7	OK
17.005	113	32	129.495	-0.215	0.000	0.18	13.2	OK
18.000	117	32	129.339	-0.124	0.000	0.07	1.2	OK
19.000	119	32	131.358	-0.129	0.000	0.05	1.5	OK
17.006	114	32	128.846	-0.260	0.000	0.21	15.9	OK
17.007	115	32	128.795	-0.294	0.000	0.10	18.3	OK
14.008	97	32	128.249	-0.318	0.000	0.19	49.6	OK
14.009	98	32	127.999	-0.352	0.000	0.11	51.8	OK
1.032	33	32	126.480	-0.509	0.000	0.14	145.1	OK
1.033	34	32	125.799	-0.511	0.000	0.13	146.4	OK
20.000	121	32	127.915	-0.119	0.000	0.09	3.6	OK
20.001	122	32	126.160	-0.111	0.000	0.15	4.6	OK
1.034	35	32	124.914	-0.573	0.000	0.19	153.7	OK
1.035	36	32	124.743	-0.500	0.000	0.33	153.7	OK
21.000	124	32	133.280	-0.125	0.000	0.07	2.1	OK
21.001	125	32	131.952	-0.189	0.000	0.06	6.3	OK
21.002	126	32	129.440	-0.256	0.000	0.05	10.8	OK
21.003	127	32	126.521	-0.286	0.000	0.13	13.7	OK
22.000	138	32	134.976	-0.124	0.000	0.07	1.7	OK
22.001	139	32	133.708	-0.186	0.000	0.07	6.4	OK
23.000	144	32	135.569	-0.131	0.000	0.04	1.0	OK
23.001	145	32	134.602	-0.119	0.000	0.10	3.6	OK
24.000	148	32	134.834	-0.121	0.000	0.08	2.7	OK
23.002	146	32	132.849	-0.182	0.000	0.08	8.6	OK
22.002	140	32	131.010	-0.243	0.000	0.08	16.7	OK
22.003	141	32	129.648	-0.238	0.000	0.10	17.8	OK
22.004	142	32	129.038	-0.237	0.000	0.10	18.3	OK
21.004	128	32	126.297	-0.369	0.000	0.15	33.6	OK
25.000	150	32	136.560	-0.115	0.000	0.12	2.1	OK
25.001	151	32	136.047	-0.116	0.000	0.12	5.2	OK
26.000	155	32	13					

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Summary Wizard of 720 minute 30 year Winter I+0% for SW1.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)	
27.000	157	32	129.339	-0.178	0.000	0.10		3.7	OK
21.006	130	32	126.143	-0.418	0.000	0.09		51.3	OK
28.000	159	32	124.053	-0.622	0.000	0.02		6.1	OK
28.001	160	32	123.947	-0.627	0.000	0.01		6.6	OK
21.007	131	33	123.685	-0.501	0.000	0.14		59.7	OK
21.008	132	34	123.560	-0.507	0.000	0.14		63.2	OK
21.009	133	34	123.404	-0.508	0.000	0.14		65.2	OK
29.000	162	32	133.276	-0.187	0.000	0.07		4.3	OK
29.001	163	32	132.330	-0.191	0.000	0.05		6.6	OK
29.002	164	32	129.089	-0.172	0.000	0.13		7.1	OK
30.000	168	32	131.159	-0.177	0.000	0.10		6.5	OK
30.001	169	32	129.781	-0.246	0.000	0.07		10.0	OK
29.003	165	32	128.925	-0.248	0.000	0.07		19.1	OK
31.000	171	32	128.207	-0.189	0.000	0.06		3.2	OK
31.001	172	32	127.603	-0.189	0.000	0.06		6.4	OK
29.004	166	32	124.978	-0.328	0.000	0.17		27.1	OK
21.010	134	34	123.179	-0.462	0.000	0.32		92.3	OK
21.011	135	34	123.165	-0.458	0.000	0.21		92.4	OK
21.012	136	33	123.152	-0.417	0.000	0.18		93.4	OK
1.036	37	30	123.138	-0.293	0.000	0.35		246.1	OK
1.037	38	28	123.124	-0.270	0.000	0.21		245.4	OK
1.038	39	22	123.048	-0.173	0.000	0.05		54.9	OK
1.039	40	21	122.987	-0.069	0.000	0.05		44.5	OK
1.040	41	3	122.093	-0.914	0.000	0.04		44.5	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
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	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	34	134.658	-0.118	0.000	0.11		2.5	OK
1.001	2	34	133.387	-0.192	0.000	0.05		4.0	OK
1.002	3	34	132.363	-0.189	0.000	0.06		4.4	OK
2.000	44	34	132.178	-0.197	0.000	0.04		1.7	OK
1.003	4	34	131.941	-0.241	0.000	0.09		6.2	OK
3.000	46	34	134.366	-0.134	0.000	0.03		0.6	OK
3.001	47	34	133.822	-0.133	0.000	0.03		1.0	OK
3.002	48	34	133.187	-0.126	0.000	0.06		2.2	OK
1.004	5	34	131.772	-0.253	0.000	0.06		9.2	OK
1.005	6	34	131.023	-0.248	0.000	0.07		10.8	OK
4.000	50	34	134.342	-0.132	0.000	0.03		1.2	OK
4.001	51	34	132.556	-0.188	0.000	0.06		4.4	OK
4.002	52	34	131.427	-0.248	0.000	0.07		5.8	OK
4.003	53	34	131.172	-0.233	0.000	0.11		7.1	OK
4.004	54	34	131.085	-0.242	0.000	0.08		9.7	OK
1.006	7	34	130.476	-0.362	0.000	0.09		20.6	OK
1.007	8	34	130.169	-0.338	0.000	0.14		21.2	OK
1.008	9	34	130.102	-0.336	0.000	0.14		22.2	OK
1.009	10	34	130.022	-0.333	0.000	0.15		23.2	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
15.000	100	34	136.508	-0.118	0.000	0.10	1.9	OK
15.001	101	34	135.713	-0.113	0.000	0.14	3.3	OK
16.000	105	34	133.197	-0.192	0.000	0.05	3.0	OK
16.001	106	34	132.582	-0.171	0.000	0.13	5.2	OK
15.002	102	34	132.188	-0.220	0.000	0.16	8.6	OK
15.003	103	34	132.149	-0.225	0.000	0.14	10.1	OK
14.003	92	34	131.875	-0.277	0.000	0.15	16.6	OK
14.004	93	34	131.694	-0.349	0.000	0.12	18.6	OK
14.005	94	34	131.595	-0.343	0.000	0.13	20.4	OK
14.006	95	34	131.488	-0.361	0.000	0.09	23.8	OK
14.007	96	34	131.090	-0.393	0.000	0.04	25.5	OK
17.000	108	34	132.262	-0.194	0.000	0.05	3.0	OK
17.001	109	34	131.724	-0.191	0.000	0.06	3.9	OK
17.002	110	34	131.002	-0.175	0.000	0.11	7.6	OK
17.003	111	34	129.839	-0.246	0.000	0.07	8.3	OK
17.004	112	34	129.533	-0.222	0.000	0.15	8.7	OK
17.005	113	34	129.486	-0.224	0.000	0.14	10.7	OK
18.000	117	34	129.336	-0.127	0.000	0.06	1.0	OK
19.000	119	34	131.356	-0.131	0.000	0.04	1.2	OK
17.006	114	34	128.834	-0.272	0.000	0.17	12.9	OK
17.007	115	34	128.788	-0.302	0.000	0.09	14.9	OK
14.008	97	34	128.234	-0.333	0.000	0.15	40.4	OK
14.009	98	34	127.991	-0.360	0.000	0.09	42.3	OK
1.032	33	34	126.465	-0.524	0.000	0.11	118.8	OK
1.033	34	34	125.784	-0.526	0.000	0.11	119.8	OK
20.000	121	34	127.911	-0.123	0.000	0.08	3.0	OK
20.001	122	34	126.156	-0.115	0.000	0.12	3.8	OK
1.034	35	34	124.885	-0.602	0.000	0.16	125.8	OK
1.035	36	34	124.709	-0.535	0.000	0.27	125.8	OK
21.000	124	34	133.278	-0.127	0.000	0.06	1.7	OK
21.001	125	34	131.948	-0.193	0.000	0.05	5.1	OK
21.002	126	34	129.436	-0.260	0.000	0.04	8.8	OK
21.003	127	34	126.513	-0.294	0.000	0.11	11.1	OK
22.000	138	34	134.973	-0.127	0.000	0.06	1.4	OK
22.001	139	34	133.703	-0.191	0.000	0.06	5.2	OK
23.000	144	34	135.567	-0.133	0.000	0.03	0.8	OK
23.001	145	34	134.599	-0.122	0.000	0.08	2.9	OK
24.000	148	34	134.830	-0.125	0.000	0.07	2.2	OK
23.002	146	34	132.844	-0.187	0.000	0.07	7.0	OK
22.002	140	34	131.004	-0.249	0.000	0.07	13.7	OK
22.003	141	34	129.641	-0.245	0.000	0.08	14.5	OK
22.004	142	34	129.032	-0.243	0.000	0.08	14.9	OK
21.004	128	34	126.279	-0.387	0.000	0.12	27.4	OK
25.000	150	34	136.557	-0.118	0.000	0.10	1.7	OK
25.001	151	34	136.044	-0.119	0.000	0.10	4.3	OK
26.000	155	34	132.704	-0.117	0.000	0.11	1.9	OK
25.002	152	34	132.222	-0.180	0.000	0.09	6.8	OK
25.003	153	34	131.811	-0.182	0.000	0.08	9.3	OK
21.005	129	34	126.228	-0.353	0.000	0.23	36.9	OK

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Summary Wizard of 960 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Cap.	Overflow (1/s)	Pipe Flow (1/s)	Status
			(m)	(m)	(m³)				
27.000	157	34	129.334	-0.183	0.000	0.08		3.0	OK
21.006	130	34	126.131	-0.430	0.000	0.08		41.8	OK
28.000	159	34	124.044	-0.631	0.000	0.01		4.9	OK
28.001	160	34	123.938	-0.636	0.000	0.01		5.4	OK
21.007	131	34	123.668	-0.518	0.000	0.12		48.7	OK
21.008	132	35	123.544	-0.523	0.000	0.12		51.6	OK
21.009	133	35	123.388	-0.524	0.000	0.11		53.2	OK
29.000	162	34	133.272	-0.191	0.000	0.06		3.5	OK
29.001	163	34	132.326	-0.195	0.000	0.04		5.4	OK
29.002	164	34	129.084	-0.177	0.000	0.10		5.8	OK
30.000	168	34	131.154	-0.182	0.000	0.08		5.3	OK
30.001	169	34	129.775	-0.252	0.000	0.06		8.1	OK
29.003	165	34	128.919	-0.254	0.000	0.06		15.6	OK
31.000	171	34	128.203	-0.193	0.000	0.05		2.6	OK
31.001	172	34	127.600	-0.192	0.000	0.05		5.2	OK
29.004	166	34	124.965	-0.341	0.000	0.14		22.1	OK
21.010	134	35	123.154	-0.487	0.000	0.26		75.3	OK
21.011	135	35	123.152	-0.471	0.000	0.17		75.4	OK
21.012	136	35	123.139	-0.430	0.000	0.15		76.2	OK
1.036	37	33	123.126	-0.305	0.000	0.29		201.3	OK
1.037	38	30	123.112	-0.282	0.000	0.17		200.7	OK
1.038	39	23	123.039	-0.183	0.000	0.04		48.1	OK
1.039	40	23	122.976	-0.080	0.000	0.05		44.5	OK
1.040	41	7	122.093	-0.914	0.000	0.04		44.5	OK

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Summary Wizard of 1440 minute 30 year Winter I+0% for SW1.SWS

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	20.000
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	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	14.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

Profile(s)	Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	30, 100, 200
Climate Change (%)	0, 0, 0

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	36	134.654	-0.122	0.000	0.08		1.9	OK
1.001	2	36	133.383	-0.196	0.000	0.04		3.0	OK
1.002	3	36	132.358	-0.194	0.000	0.05		3.3	OK
2.000	44	36	132.175	-0.200	0.000	0.03		1.3	OK
1.003	4	36	131.931	-0.251	0.000	0.06		4.6	OK
3.000	46	36	134.364	-0.136	0.000	0.02		0.5	OK
3.001	47	36	133.820	-0.135	0.000	0.02		0.8	OK
3.002	48	36	133.183	-0.130	0.000	0.04		1.7	OK
1.004	5	36	131.765	-0.260	0.000	0.04		6.9	OK
1.005	6	36	131.015	-0.256	0.000	0.05		8.1	OK
4.000	50	36	134.340	-0.134	0.000	0.03		0.9	OK
4.001	51	36	132.550	-0.194	0.000	0.05		3.3	OK
4.002	52	36	131.419	-0.256	0.000	0.05		4.3	OK
4.003	53	36	131.164	-0.241	0.000	0.09		5.3	OK
4.004	54	36	131.075	-0.252	0.000	0.06		7.3	OK
1.006	7	36	130.462	-0.376	0.000	0.06		15.4	OK
1.007	8	36	130.154	-0.353	0.000	0.11		15.9	OK
1.008	9	36	130.086	-0.352	0.000	0.11		16.7	OK
1.009	10	36	130.006	-0.349	0.000	0.12		17.4	OK

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Summary Wizard of 1440 minute 30 year Winter I+0% for SW1.SWS

PN	US/MH Name	Storm Rank	Water Level	Surcharged Depth	Flooded Volume	Flow / Cap.	Overflow (1/s)	Pipe Flow (1/s)	Status
			(m)	(m)	(m³)				
27.000	157	36	129.327	-0.190	0.000	0.06		2.3	OK
21.006	130	36	126.117	-0.445	0.000	0.06		31.4	OK
28.000	159	36	124.033	-0.642	0.000	0.01		3.7	OK
28.001	160	36	123.928	-0.646	0.000	0.01		4.0	OK
21.007	131	36	123.649	-0.537	0.000	0.09		36.5	OK
21.008	132	36	123.525	-0.542	0.000	0.09		38.7	OK
21.009	133	36	123.369	-0.543	0.000	0.09		39.9	OK
29.000	162	36	133.267	-0.196	0.000	0.04		2.6	OK
29.001	163	36	132.322	-0.199	0.000	0.03		4.0	OK
29.002	164	36	129.077	-0.184	0.000	0.08		4.4	OK
30.000	168	36	131.147	-0.189	0.000	0.06		4.0	OK
30.001	169	36	129.768	-0.259	0.000	0.05		6.1	OK
29.003	165	36	128.913	-0.260	0.000	0.04		11.7	OK
31.000	171	36	128.199	-0.197	0.000	0.04		2.0	OK
31.001	172	36	127.595	-0.197	0.000	0.04		3.9	OK
29.004	166	36	124.951	-0.355	0.000	0.10		16.6	OK
21.010	134	36	123.113	-0.528	0.000	0.19		56.5	OK
21.011	135	36	123.098	-0.525	0.000	0.13		56.6	OK
21.012	136	36	123.091	-0.478	0.000	0.11		57.1	OK
1.036	37	35	123.080	-0.351	0.000	0.22		151.5	OK
1.037	38	33	123.068	-0.327	0.000	0.13		151.0	OK
1.038	39	25	123.001	-0.220	0.000	0.04		47.0	OK
1.039	40	27	122.939	-0.118	0.000	0.05		44.5	OK
1.040	41	8	122.093	-0.914	0.000	0.04		44.5	OK