

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
Rainfall Events	Singular	Skip Steady State	x
FSR Region	Scotland and Ireland	Drain Down Time (mins)	240
M5-60 (mm)	17.400	Additional Storage (m³/ha)	20.0
Ratio-R	0.276	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	20	0	0
30	20	0	0
100	20	0	0

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	5.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	Scotland and Ireland	Connection Type	Level Soffits
M5-60 (mm)	17.400	Minimum Backdrop Height (m)	1.000
Ratio-R	0.276	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	S1	S2	87.795	0.600	74.540	72.660	1.880	46.7	1000	5.00	50.0
1.001	S2	S3	19.915	0.600	72.660	72.600	0.060	331.9	150	5.00	50.0
1.002	S3	S4	23.981	0.600	72.600	72.550	0.050	479.6	150	5.00	50.0
1.003	S4	S5	24.238	0.600	72.550	72.500	0.050	484.8	150	5.00	50.0
1.004	S5	S6	24.365	0.600	72.500	72.450	0.050	487.3	150	5.00	50.0
1.005	S6	S7	12.237	0.600	71.700	71.650	0.050	244.7	300	5.00	50.0
2.000	S20	S21	26.468	0.600	72.500	72.450	0.050	529.4	1000	5.00	50.0
2.001	S21	S7	5.985	0.600	71.700	71.650	0.050	119.7	150	5.00	50.0
1.006	S7	S24	44.226	0.600	71.650	71.427	0.223	198.3	300	5.00	50.0
3.000	S25	S26	33.498	0.600	72.360	72.150	0.210	159.5	150	5.00	50.0
3.001	S26	S24	8.020	0.600	71.500	71.427	0.073	109.9	150	5.00	50.0
1.007	S24	S8	29.238	0.600	71.427	71.280	0.147	198.9	300	5.00	50.0
4.000	S27	S28	61.492	0.600	72.480	72.300	0.180	341.6	1000	5.00	50.0
4.001	S28	S8	9.184	0.600	71.380	71.280	0.100	91.8	150	5.00	50.0
1.008	S8	S31	41.127	0.600	71.280	71.074	0.206	199.6	300	5.00	50.0
5.000	S29	S30	29.248	0.600	73.170	73.000	0.170	172.0	225	5.00	50.0
5.001	S30	S31	9.698	0.600	71.170	71.074	0.096	101.0	150	5.00	50.0
1.009	S31	S9	10.739	0.600	71.074	71.020	0.054	198.9	375	5.00	50.0
6.000	S89	S9	30.000	0.600	73.053	72.360	0.693	43.3	225	5.00	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	4.225	2408.1	36.5	0.203	0.040	0.270	0.0	29	1.179
1.001	1.352	425.9	36.5	0.040	0.100	0.270	0.0	105	0.743
1.002	1.123	353.7	36.5	0.100	0.150	0.270	0.0	115	0.646
1.003	1.117	351.8	36.5	0.150	0.200	0.270	0.0	115	0.643
1.004	1.114	350.8	36.5	0.200	0.250	0.270	0.0	115	0.643
1.005	1.000	70.7	36.5	1.000	1.050	0.270	0.0	153	1.009
2.000	1.246	710.1	10.4	0.200	0.250	0.076	0.0	28	0.338
2.001	0.917	16.2	10.4	1.150	1.200	0.076	0.0	87	0.971
1.006	1.113	78.6	46.9	1.050	1.273	0.346	0.0	167	1.160
3.000	0.793	14.0	13.3	0.490	0.700	0.098	0.0	117	0.900
3.001	0.958	16.9	13.3	1.350	1.423	0.098	0.0	100	1.059
1.007	1.111	78.5	60.2	1.273	1.851	0.444	0.0	197	1.220
4.000	1.554	885.7	10.6	0.220	0.922	0.078	0.0	25	0.389
4.001	2.582	813.3	10.6	1.842	1.851	0.078	0.0	43	0.875
1.008	1.109	78.4	75.2	1.851	2.368	0.555	0.0	237	1.256
5.000	0.994	39.5	15.4	0.419	0.682	0.113	0.0	97	0.932
5.001	0.999	17.7	15.4	2.587	2.518	0.113	0.0	109	1.124
1.009	1.281	141.5	90.5	2.293	2.470	0.668	0.0	219	1.356
6.000	1.993	79.3	30.3	1.125	1.280	0.224	0.0	96	1.862

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.010	S9	S10	72.916	0.600	71.020	70.650	0.370	197.1	375	5.00	50.0
7.000	S32	S33	35.892	0.600	73.640	73.500	0.140	256.4	225	5.00	50.0
7.001	S33	S10	6.716	0.600	70.750	70.650	0.100	67.2	225	5.00	50.0
1.011	S10	S11	41.941	0.600	70.650	70.440	0.210	199.7	450	5.00	50.0
1.012	S11	S12	29.214	0.600	70.440	70.290	0.150	194.8	450	5.00	50.0
1.013	S12	S13	49.817	0.600	70.290	70.050	0.240	207.6	450	5.00	50.0
8.000	S34	S35	49.190	0.600	72.300	72.150	0.150	327.9	300	5.00	50.0
8.001	S35	S13	6.710	0.600	70.150	70.050	0.100	67.1	300	5.00	50.0
9.000	S36	S13	42.295	0.600	71.862	71.580	0.282	150.0	150	5.00	50.0
1.014	S13	S14	35.599	0.600	70.050	69.870	0.180	197.8	450	5.00	50.0
10.000	S47	S48	36.566	0.600	74.910	74.780	0.130	281.3	150	5.00	50.0
10.001	S48	S49	11.083	0.600	74.780	74.730	0.050	221.7	150	5.00	50.0
10.002	S49	S50	61.991	0.600	74.730	74.630	0.100	619.9	150	5.00	50.0
10.003	S50	S51	24.444	0.600	74.630	74.530	0.100	244.4	150	5.00	50.0
11.000	S65	S51	50.529	0.600	74.690	74.530	0.160	315.8	1000	5.00	50.0
10.004	S51	S66	37.266	0.600	74.050	73.939	0.111	335.7	1000	5.00	50.0
10.005	S66	S52	12.710	0.600	73.939	73.810	0.129	98.5	1000	5.00	50.0
10.006	S52	S53	13.423	0.600	73.810	73.700	0.110	122.0	300	5.00	50.0
10.007	S53	S54	19.066	0.600	73.700	73.160	0.540	35.3	1000	5.00	50.0
12.000	S67	S68	31.516	0.600	73.360	73.250	0.110	286.5	225	5.00	50.0
12.001	S68	S69	13.031	0.600	73.250	73.200	0.050	260.6	225	5.00	50.0
12.002	S69	S54	17.086	0.600	73.200	73.160	0.040	427.2	1000	5.00	50.0
10.008	S54	S55	21.067	0.600	73.160	73.120	0.040	526.7	1000	5.00	50.0
13.000	S59	S61	92.336	0.600	74.330	74.020	0.310	297.9	300	5.00	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.010	1.287	142.1	121.7	2.470	3.170	0.898	0.0	268	1.439
7.000	0.812	32.3	21.9	0.423	0.510	0.161	0.0	136	0.870
7.001	1.598	63.5	21.9	3.260	3.320	0.161	0.0	91	1.454
1.011	1.435	228.2	149.9	3.095	3.076	1.106	0.0	267	1.527
1.012	1.453	231.1	149.9	3.076	3.245	1.106	0.0	264	1.541
1.013	1.407	223.8	149.9	3.245	2.942	1.106	0.0	270	1.504
8.000	0.863	61.0	78.4	1.400	1.050	0.578	0.0	185	1.710
8.001	1.922	135.8	78.4	3.050	3.092	0.578	0.0	164	1.988
9.000	0.818	14.5	0.0	1.200	1.712	0.000	0.0	0	0.000
1.014	1.442	229.3	228.2	2.942	2.764	1.684	0.0	370	1.632
10.000	1.470	463.0	5.9	0.005	0.005	0.044	0.0	43	0.495
10.001	1.657	522.1	5.9	0.005	0.195	0.044	0.0	41	0.542
10.002	0.986	310.6	5.9	0.195	0.228	0.044	0.0	52	0.367
10.003	0.638	11.3	5.9	0.378	0.353	0.044	0.0	77	0.645
11.000	1.617	921.5	23.0	0.078	0.203	0.170	0.0	39	0.534
10.004	1.568	893.5	36.1	0.683	0.189	0.267	0.0	51	0.609
10.005	2.904	1655.6	42.6	0.189	0.147	0.314	0.0	39	0.966
10.006	1.422	100.5	48.2	0.147	0.102	0.355	0.0	146	1.407
10.007	4.861	2770.6	48.2	0.102	0.540	0.355	0.0	31	1.424
12.000	0.767	30.5	11.4	0.415	0.525	0.084	0.0	95	0.713
12.001	0.805	32.0	11.4	0.525	0.575	0.084	0.0	93	0.739
12.002	1.388	791.4	11.4	0.500	0.540	0.084	0.0	28	0.372
10.008	1.249	712.0	59.6	0.540	0.516	0.440	0.0	78	0.616
13.000	0.906	64.0	31.8	0.153	0.546	0.234	0.0	149	0.903

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
13.001	S61	S62	6.358	0.600	74.020	74.000	0.020	317.9	300	5.00	50.0
13.002	S62	S63	51.147	0.600	74.000	73.620	0.380	134.6	300	5.00	50.0
13.003	S63	S64	30.921	0.600	73.620	73.500	0.120	257.7	1000	5.00	50.0
13.004	S64	S55	16.936	0.600	73.500	73.120	0.380	44.6	1000	5.00	50.0
10.009	S55	S56	24.474	0.600	73.120	73.060	0.060	407.9	1000	5.00	50.0
14.000	S81	S82	56.656	0.600	73.450	73.260	0.190	298.2	300	5.00	50.0
14.001	S82	S83	18.525	0.600	73.260	73.190	0.070	264.6	300	5.00	50.0
14.002	S83	S84	28.600	0.600	73.190	73.090	0.100	286.0	1000	5.00	50.0
15.000	S87	S88	27.701	0.600	73.340	73.250	0.090	307.8	150	5.00	50.0
15.001	S88	S84	18.103	0.600	73.250	73.200	0.050	362.1	150	5.00	50.0
14.003	S84	S85	37.320	0.600	73.090	72.970	0.120	311.0	1000	5.00	50.0
14.004	S85	S86	16.356	0.600	72.970	72.920	0.050	327.1	1000	5.00	50.0
14.005	S86	S56	11.727	0.600	72.920	72.450	0.470	25.0	1000	5.00	50.0
16.000	S70	S71	14.879	0.600	73.000	72.950	0.050	297.6	225	5.00	50.0
16.001	S71	S72	8.239	0.600	72.950	72.900	0.050	164.8	1000	5.00	50.0
16.002	S72	S56	21.281	0.600	72.900	72.800	0.100	212.8	1000	5.00	50.0
10.010	S56	S57	39.927	0.600	72.450	72.400	0.050	798.5	1000	5.00	50.0
10.011	S57	S58	13.182	0.600	72.400	72.300	0.100	131.8	1000	5.00	50.0
17.000	S73	S74	40.339	0.600	72.840	72.750	0.090	448.2	225	5.00	50.0
17.001	S74	S75	19.655	0.600	72.750	72.700	0.050	393.1	225	5.00	50.0
17.002	S75	S76	18.285	0.600	72.700	72.680	0.020	914.3	1000	5.00	50.0
17.003	S76	S58	20.211	0.600	72.680	72.640	0.040	505.3	1000	5.00	50.0
18.000	S77	S78	30.626	0.600	72.780	72.480	0.300	102.1	150	5.00	50.0
18.001	S78	S79	16.989	0.600	72.480	72.330	0.150	113.3	150	5.00	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
13.001	0.876	61.9	31.8	0.546	0.567	0.234	0.0	152	0.881
13.002	1.353	95.7	45.6	0.567	0.580	0.336	0.0	146	1.337
13.003	1.791	1020.9	45.6	0.580	0.200	0.336	0.0	54	0.720
13.004	4.325	2465.2	45.6	0.200	0.516	0.336	0.0	33	1.294
10.009	1.421	810.0	105.1	0.516	0.394	0.776	0.0	100	0.805
14.000	0.905	64.0	38.3	0.349	0.599	0.283	0.0	167	0.944
14.001	0.961	68.0	38.3	0.599	0.510	0.283	0.0	161	0.990
14.002	1.699	968.7	47.5	0.510	0.682	0.351	0.0	58	0.708
15.000	0.567	10.0	3.9	0.510	0.745	0.029	0.0	65	0.534
15.001	0.522	9.2	3.9	0.745	0.722	0.029	0.0	68	0.501
14.003	1.629	928.7	56.8	0.682	0.730	0.419	0.0	65	0.728
14.004	1.588	905.3	58.0	0.730	0.637	0.428	0.0	67	0.720
14.005	5.785	3297.3	58.0	0.637	1.004	0.428	0.0	31	1.696
16.000	0.753	29.9	19.3	0.468	0.525	0.142	0.0	142	0.730
16.001	2.243	1278.5	19.3	0.450	0.428	0.142	0.0	34	0.525
16.002	1.972	1124.1	19.3	0.428	0.654	0.142	0.0	38	0.454
10.010	1.012	576.9	182.3	1.004	0.747	1.345	0.0	164	0.742
10.011	2.509	1430.3	182.3	0.747	0.696	1.345	0.0	99	1.416
17.000	0.611	24.3	14.6	0.429	0.556	0.107	0.0	125	0.637
17.001	0.653	26.0	17.2	0.556	0.668	0.127	0.0	134	0.698
17.002	0.945	538.7	17.2	0.593	0.510	0.127	0.0	45	0.337
17.003	1.275	727.0	17.2	0.510	0.356	0.127	0.0	38	0.412
18.000	0.994	17.6	14.2	0.497	0.506	0.104	0.0	102	1.104
18.001	0.943	16.7	14.2	0.506	0.782	0.104	0.0	106	1.056

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
19.000	S80	S79	28.864	0.600	72.450	72.330	0.120	240.5	150	5.00	50.0
18.002	S79	S58	11.329	0.600	72.330	72.230	0.100	113.3	225	5.00	50.0
20.000	S90	S91	22.503	0.600	72.450	72.370	0.080	281.3	150	5.00	50.0
20.001	S91	S58	13.185	0.600	72.370	72.300	0.070	188.4	150	5.00	50.0
10.012	S58	S14	20.593	0.600	70.000	69.870	0.130	158.4	450	5.00	50.0
21.000	S39	S38	31.562	0.600	72.300	72.200	0.100	315.6	150	5.00	50.0
22.000	S37	S38	23.466	0.600	72.670	72.300	0.370	63.4	150	5.00	50.0
21.001	S38	S14	3.240	0.600	70.000	69.870	0.130	24.9	150	5.00	50.0
1.015	S14	S15	41.356	0.600	69.870	69.660	0.210	196.9	225	5.00	50.0
23.000	S43	S44	21.321	0.600	72.280	72.200	0.080	266.5	225	5.00	50.0
23.001	S44	S15	9.239	0.600	69.800	69.660	0.140	66.0	150	5.00	50.0
24.000	S45	S46	11.963	0.600	72.190	72.130	0.060	199.4	150	5.00	50.0
24.001	S46	S15	12.044	0.600	69.800	69.660	0.140	86.0	150	5.00	50.0
1.016	S15	S16	22.928	0.600	69.660	69.550	0.110	208.4	150	5.00	50.0
25.000	S40	S41	32.799	0.600	71.870	71.750	0.120	273.3	225	5.00	50.0
25.001	S41	S16	6.661	0.600	69.650	69.550	0.100	66.6	150	5.00	50.0
1.017	S16	S17	6.615	0.600	69.550	69.520	0.030	220.5	150	5.00	50.0
26.000	S42	S17.1	40.048	0.600	71.870	71.800	0.070	572.1	225	5.00	50.0
1.018	S17	S19	23.219	0.600	69.520	69.400	0.120	193.5	150	5.00	50.0
1.019	S19	S18	4.263	0.600	69.400	68.925	0.475	9.0	225	5.00	50.0
26.001	S17.1	S17	2.577	0.600	71.800	71.784	0.016	161.0	225	5.00	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
19.000	0.643	11.4	8.3	0.893	0.782	0.061	0.0	95	0.702
18.002	1.227	48.8	22.4	0.707	0.841	0.166	0.0	107	1.201
20.000	0.594	10.5	0.0	0.505	0.719	0.000	0.0	0	0.000
20.001	0.729	12.9	0.0	0.719	0.846	0.000	0.0	0	0.000
10.012	1.612	256.4	222.0	2.846	2.764	1.638	0.0	325	1.804
21.000	0.560	9.9	15.3	0.481	0.701	0.113	0.0		
22.000	1.265	22.3	6.9	0.483	0.601	0.051	0.0	57	1.116
21.001	2.025	35.8	22.2	2.901	3.064	0.164	0.0		
1.015	0.928	36.9	472.4	2.989	3.063	3.486	0.0		
23.000	0.796	31.6	13.8	0.407	0.575	0.102	0.0	104	0.770
23.001	1.240	21.9	13.8	3.050	3.138	0.102	0.0	86	1.309
24.000	0.708	12.5	2.6	0.484	0.609	0.019	0.0	47	0.561
24.001	1.084	19.2	2.6	2.939	3.138	0.019	0.0	37	0.758
1.016	0.692	12.2	488.8	3.138	3.047	3.607	0.0		
25.000	0.786	31.2	12.3	0.405	0.779	0.091	0.0	98	0.740
25.001	1.234	21.8	12.3	2.954	3.047	0.091	0.0	81	1.270
1.017	0.673	11.9	501.1	3.047	3.069	3.698	0.0		
26.000	0.540	21.5	10.8	0.405	0.714	0.080	0.0	113	0.540
1.018	0.719	12.7	512.0	3.069	3.123	3.778	0.0		
1.019	4.393	174.7	512.0	3.048	3.503	3.778	0.0		
26.001	1.027	40.9	10.8	0.714	0.730	0.080	0.0	79	0.870

Node S19 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	69.400	Product Number	CTL-SHE-0147-1690-3800-1690
Design Depth (m)	3.800	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	16.9	Min Node Diameter (mm)	1800

Node S2 Online Weir Control

Flap Valve	x	Invert Level (m)	72.660	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.200		

Node S3 Online Weir Control

Flap Valve	x	Invert Level (m)	72.600	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.100		

Node S4 Online Weir Control

Flap Valve	x	Invert Level (m)	72.550	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.100		

Node S5 Online Weir Control

Flap Valve	x	Invert Level (m)	72.500	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.100		

Node S6 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.700	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S21 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.700	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S26 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.500	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S28 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.380	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S30 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.170	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S33 Online Orifice Control

Flap Valve	x	Invert Level (m)	70.750	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S35 Online Orifice Control

Flap Valve	x	Invert Level (m)	70.150	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S38 Online Orifice Control

Flap Valve	x	Invert Level (m)	70.000	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S41 Online Orifice Control

Flap Valve	x	Invert Level (m)	69.650	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S17.1 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.800	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S61 Online Orifice Control

Flap Valve	x	Invert Level (m)	74.020	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S63 Online Orifice Control

Flap Valve	x	Invert Level (m)	73.620	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S82 Online Orifice Control

Flap Valve	x	Invert Level (m)	73.260	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S68 Online Orifice Control

Flap Valve	x	Invert Level (m)	73.250	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S71 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.950	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S74 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.750	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S78 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.480	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S79 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.330	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S91 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.370	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S46 Online Orifice Control

Flap Valve	x	Invert Level (m)	69.800	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S44 Online Orifice Control

Flap Valve	x	Invert Level (m)	69.800	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node S56 Online Weir Control

Flap Valve	x	Invert Level (m)	73.060	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.100		

Node S55 Online Weir Control

Flap Valve	x	Invert Level (m)	73.120	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.100		

Node S54 Online Weir Control

Flap Valve	x	Invert Level (m)	73.160	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.050		

Node S51 Online Weir Control

Flap Valve	x	Invert Level (m)	74.050	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.100		

Node S66 Online Weir Control

Flap Valve	x	Invert Level (m)	73.939	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.100		

Results for 2 year +20% CC Critical Storm Duration. Lowest mass balance: 94.05%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	74.573	0.033	47.0	0.3486	0.0000	OK
30 minute winter	S2	22	72.847	0.187	37.8	0.0000	0.0000	OK
180 minute winter	S3	132	72.721	0.121	13.1	30.0589	0.0000	OK
180 minute winter	S4	136	72.669	0.119	6.2	0.0000	0.0000	OK
180 minute winter	S5	136	72.614	0.114	6.2	0.0000	0.0000	OK
1440 minute winter	S6	1170	72.303	0.603	3.4	0.0000	0.0000	SURCHARGED
15 minute winter	S20	11	72.533	0.033	13.3	0.1021	0.0000	OK
1440 minute winter	S21	1170	72.301	0.601	1.0	0.2655	0.0000	SURCHARGED
1440 minute winter	S7	1170	72.301	0.651	4.3	0.7358	0.0000	SURCHARGED
15 minute winter	S25	11	72.521	0.161	17.1	0.4933	0.0000	SURCHARGED
1440 minute winter	S26	1170	72.301	0.801	1.3	1.1458	0.0000	SURCHARGED
1440 minute winter	S24	1170	72.300	0.873	5.5	0.9879	0.0000	SURCHARGED
15 minute winter	S27	11	72.507	0.027	13.6	0.0814	0.0000	OK
1440 minute winter	S28	1170	72.301	0.921	1.1	0.0000	0.0000	SURCHARGED
1440 minute winter	S8	1170	72.300	1.020	8.8	1.4592	0.0000	SURCHARGED
15 minute winter	S29	10	73.282	0.112	19.8	0.3939	0.0000	OK
60 minute winter	S30	38	72.347	1.177	11.3	1.6841	0.0000	SURCHARGED
1440 minute winter	S31	1170	72.300	1.226	7.7	1.3869	0.0000	SURCHARGED
15 minute winter	S89	10	73.168	0.115	39.0	0.5120	0.0000	OK
1440 minute winter	S9	1170	72.300	1.280	10.7	1.5056	0.0000	SURCHARGED
15 minute winter	S32	11	73.799	0.159	28.1	0.7929	0.0000	OK
30 minute winter	S33	22	72.717	1.967	22.4	0.8694	0.0000	SURCHARGED
1440 minute winter	S10	1170	72.300	1.650	13.5	2.2969	0.0000	SURCHARGED
1440 minute winter	S11	1170	72.300	1.860	13.5	2.1037	0.0000	SURCHARGED
1440 minute winter	S12	1170	72.300	2.010	13.5	2.2733	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	45.3	0.667	0.019	13.3336	
30 minute winter	S2	1.001	S3	25.7	1.303	0.060	0.5534	
180 minute winter	S3	1.002	S4	6.2	0.196	0.018	1.0208	
180 minute winter	S4	1.003	S5	6.2	0.194	0.018	0.9493	
180 minute winter	S5	1.004	S6	6.2	0.454	0.018	0.3320	
1440 minute winter	S6	1.005	S7	3.4	0.400	0.048	0.8617	
15 minute winter	S20	2.000	S21	12.8	0.403	0.018	0.8406	
1440 minute winter	S21	2.001	S7	1.0	0.317	0.060	0.1054	
1440 minute winter	S7	1.006	S24	4.3	0.445	0.054	3.1144	
15 minute winter	S25	3.000	S26	15.5	0.950	1.104	0.5382	
1440 minute winter	S26	3.001	S24	1.3	0.324	0.075	0.1412	
1440 minute winter	S24	1.007	S8	5.5	0.501	0.070	2.0589	
15 minute winter	S27	4.000	S28	11.8	0.433	0.013	1.6742	
1440 minute winter	S28	4.001	S8	-3.7	0.104	-0.005	27.3544	
1440 minute winter	S8	1.008	S31	-6.4	0.566	-0.082	2.8961	
15 minute winter	S29	5.000	S30	19.2	0.990	0.486	0.5668	
60 minute winter	S30	5.001	S31	9.5	0.679	0.540	0.1707	
1440 minute winter	S31	1.009	S9	7.7	0.535	0.054	1.1845	
15 minute winter	S89	6.000	S9	38.1	1.930	0.481	0.5930	
1440 minute winter	S9	1.010	S10	10.7	0.633	0.075	8.0424	
15 minute winter	S32	7.000	S33	27.0	0.974	0.837	0.9940	
30 minute winter	S33	7.001	S10	17.5	0.665	0.275	0.2671	
1440 minute winter	S10	1.011	S11	13.5	0.642	0.059	6.6453	
1440 minute winter	S11	1.012	S12	13.5	0.643	0.058	4.6288	
1440 minute winter	S12	1.013	S13	13.4	0.498	0.060	7.8932	

Results for 2 year +20% CC Critical Storm Duration. Lowest mass balance: 94.05%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S34	11	73.219	0.919	100.7	6.2557	0.0000	SURCHARGED
60 minute winter	S35	46	72.866	2.716	57.0	24.6140	0.0000	SURCHARGED
1440 minute winter	S36	1170	72.300	0.438	0.0	0.4953	0.0000	SURCHARGED
1440 minute winter	S13	1170	72.300	2.250	21.1	2.5447	0.0000	SURCHARGED
15 minute winter	S47	10	74.958	0.048	7.6	0.1376	0.0000	OK
15 minute winter	S48	11	74.825	0.045	7.4	0.0000	0.0000	OK
15 minute winter	S49	12	74.787	0.057	7.4	0.0000	0.0000	OK
15 minute winter	S50	14	74.704	0.074	7.4	0.0000	0.0000	OK
15 minute winter	S65	11	74.733	0.043	29.6	0.3865	0.0000	OK
15 minute winter	S51	11	74.418	0.368	39.4	0.3990	0.0000	SURCHARGED
30 minute winter	S66	24	74.207	0.268	36.9	0.5189	0.0000	OK
30 minute winter	S52	23	73.920	0.110	27.8	0.2042	0.0000	OK
30 minute winter	S53	23	73.723	0.023	27.9	0.0000	0.0000	OK
60 minute winter	S67	56	73.563	0.203	8.4	0.5339	0.0000	OK
60 minute winter	S68	55	73.563	0.313	8.0	2.8782	0.0000	SURCHARGED
60 minute winter	S69	52	73.560	0.360	5.9	0.0000	0.0000	SURCHARGED
60 minute winter	S54	52	73.560	0.400	25.8	0.0000	0.0000	SURCHARGED
15 minute winter	S59	12	74.510	0.180	40.9	1.8636	0.0000	OK
30 minute winter	S61	25	74.480	0.460	28.1	6.0149	0.0000	SURCHARGED
15 minute winter	S62	11	74.111	0.111	29.0	0.3098	0.0000	OK
60 minute winter	S63	55	74.094	0.474	22.0	7.2454	0.0000	SURCHARGED
60 minute winter	S64	55	73.516	0.016	13.6	0.0000	0.0000	OK
120 minute winter	S55	96	73.425	0.305	30.1	0.0000	0.0000	SURCHARGED
15 minute winter	S81	11	73.638	0.188	49.2	1.6413	0.0000	OK
60 minute winter	S82	45	73.563	0.303	28.0	15.6548	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S34	8.000	S35	95.0	1.350	1.559	3.4639	
60 minute winter	S35	8.001	S13	29.6	0.945	0.218	0.4725	
1440 minute winter	S36	9.000	S13	0.5	0.029	0.036	0.7446	
1440 minute winter	S13	1.014	S14	21.1	0.456	0.092	5.6404	
15 minute winter	S47	10.000	S48	7.4	0.561	0.016	0.4887	
15 minute winter	S48	10.001	S49	7.4	0.485	0.014	0.1731	
15 minute winter	S49	10.002	S50	7.4	0.398	0.024	1.3534	
15 minute winter	S50	10.003	S51	5.6	0.678	0.493	0.2015	
15 minute winter	S65	11.000	S51	27.9	0.588	0.030	2.3965	
15 minute winter	S51	10.004	S66	36.8	0.236	0.041	11.9310	
30 minute winter	S66	10.005	S52	25.2	0.303	0.015	1.1289	
30 minute winter	S52	10.006	S53	27.9	2.414	0.278	0.1737	
30 minute winter	S53	10.007	S54	28.0	0.196	0.010	7.8439	
60 minute winter	S67	12.000	S68	8.0	0.379	0.263	1.2214	
60 minute winter	S68	12.001	S69	5.5	0.774	0.173	0.5183	
60 minute winter	S69	12.002	S54	5.5	0.153	0.007	13.9076	
60 minute winter	S54	10.008	S55	17.2	0.038	0.024	11.0114	
15 minute winter	S59	13.000	S61	35.4	0.712	0.553	5.2897	
30 minute winter	S61	13.001	S62	12.6	0.686	0.203	0.1383	
15 minute winter	S62	13.002	S63	28.5	0.622	0.298	2.4069	
60 minute winter	S63	13.003	S64	13.6	0.584	0.013	0.7230	
60 minute winter	S64	13.004	S55	13.6	0.305	0.006	5.0208	
120 minute winter	S55	10.009	S56	29.4	0.457	0.036	5.9629	
15 minute winter	S81	14.000	S82	47.2	0.881	0.737	3.0728	
60 minute winter	S82	14.001	S83	9.9	1.243	0.146	0.1632	

Results for 2 year +20% CC Critical Storm Duration. Lowest mass balance: 94.05%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S83	264	73.278	0.088	10.1	0.1471	0.0000	OK
15 minute winter	S87	10	73.415	0.075	5.0	0.0652	0.0000	OK
15 minute winter	S88	11	73.328	0.078	4.9	0.0343	0.0000	OK
360 minute winter	S84	264	73.277	0.187	12.3	0.1518	0.0000	OK
360 minute winter	S85	272	73.282	0.312	58.2	0.0495	0.0000	SURCHARGED
480 minute winter	S86	320	73.306	0.386	304.3	0.0000	0.0000	SURCHARGED
480 minute winter	S70	328	73.284	0.284	3.9	1.2910	0.0000	SURCHARGED
480 minute winter	S71	328	73.284	0.334	3.8	14.7130	0.0000	SURCHARGED
360 minute winter	S72	264	73.279	0.379	3.6	0.0000	0.0000	SURCHARGED
360 minute winter	S56	272	73.279	0.829	196.3	114.6047	0.0000	SURCHARGED
360 minute winter	S57	264	72.426	0.026	18.9	0.0000	0.0000	OK
15 minute winter	S73	10	73.115	0.275	18.7	0.9046	0.0000	SURCHARGED
15 minute winter	S74	14	73.077	0.327	21.5	2.2974	0.0000	SURCHARGED
15 minute winter	S75	14	72.733	0.033	10.1	0.0000	0.0000	OK
15 minute winter	S76	15	72.708	0.028	10.1	0.0000	0.0000	OK
15 minute winter	S77	12	72.940	0.160	18.2	0.5183	0.0000	SURCHARGED
30 minute winter	S78	24	72.714	0.234	14.7	5.0492	0.0000	SURCHARGED
15 minute winter	S80	11	72.782	0.332	10.6	0.3886	0.0000	SURCHARGED
15 minute winter	S79	12	72.681	0.351	11.1	0.1552	0.0000	SURCHARGED
15 minute summer	S90	1	72.450	0.000	0.0	0.0000	0.0000	OK
15 minute summer	S91	1	72.370	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S58	1200	72.300	2.300	30.2	601.0548	0.0000	SURCHARGED
15 minute winter	S39	12	72.595	0.295	19.7	1.0575	0.0000	SURCHARGED
15 minute winter	S37	10	72.736	0.066	8.8	0.1052	0.0000	OK
30 minute winter	S38	23	72.471	2.471	21.7	1.2650	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S83	14.002	S84	10.1	0.323	0.010	5.7769	
15 minute winter	S87	15.000	S88	4.9	0.562	0.488	0.2451	
15 minute winter	S88	15.001	S84	4.8	0.593	0.521	0.1468	
360 minute winter	S84	14.003	S85	12.9	0.235	0.014	16.7036	
360 minute winter	S85	14.004	S86	56.7	0.301	0.063	11.3118	
480 minute winter	S86	14.005	S56	-224.4	-0.137	-0.068	21.6775	
480 minute winter	S70	16.000	S71	3.8	0.275	0.126	0.5918	
480 minute winter	S71	16.001	S72	3.3	0.168	0.003	5.9933	
360 minute winter	S72	16.002	S56	5.7	0.179	0.005	21.0221	
360 minute winter	S56	10.010	S57	18.9	0.461	0.033	1.6487	
360 minute winter	S57	10.011	S58	18.9	0.664	0.013	0.3746	
15 minute winter	S73	17.000	S74	18.1	0.454	0.744	1.6043	
15 minute winter	S74	17.001	S75	10.1	1.137	0.390	0.1839	
15 minute winter	S75	17.002	S76	10.1	0.308	0.019	0.6106	
15 minute winter	S76	17.003	S58	10.1	0.380	0.014	0.5389	
15 minute winter	S77	18.000	S78	16.6	0.952	0.945	0.5392	
30 minute winter	S78	18.001	S79	7.4	0.497	0.444	0.2991	
15 minute winter	S80	19.000	S79	10.1	0.571	0.885	0.5081	
15 minute winter	S79	18.002	S58	11.0	0.982	0.225	0.1268	
15 minute summer	S90	20.000	S91	0.0	0.000	0.000	0.0000	
15 minute summer	S91	20.001	S58	0.0	0.000	0.000	0.0000	
1440 minute winter	S58	10.012	S14	-13.4	0.261	-0.052	3.2628	
15 minute winter	S39	21.000	S38	16.7	0.970	1.692	0.5554	
15 minute winter	S37	22.000	S38	8.6	1.175	0.385	0.1718	
30 minute winter	S38	21.001	S14	16.3	1.132	0.457	0.0570	

Results for 2 year +20% CC Critical Storm Duration. Lowest mass balance: 94.05%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S14	1200	72.300	2.430	23.3	6.1840	0.0000	SURCHARGED
15 minute winter	S43	10	72.400	0.120	17.7	0.3845	0.0000	OK
1440 minute winter	S44	1170	72.270	2.470	1.4	1.0919	0.0000	SURCHARGED
1440 minute winter	S45	1170	72.270	0.080	0.3	0.0486	0.0000	OK
1440 minute winter	S46	1170	72.270	2.470	0.4	1.0917	0.0000	SURCHARGED
1440 minute winter	S15	1170	72.270	2.610	13.5	2.9519	0.0000	SURCHARGED
1440 minute winter	S40	1140	72.119	0.249	1.2	0.7208	0.0000	SURCHARGED
1440 minute winter	S41	1140	72.119	2.469	1.1	1.0914	0.0000	SURCHARGED
1440 minute winter	S16	1140	72.119	2.569	13.6	2.9056	0.0000	SURCHARGED
15 minute winter	S42	12	72.102	0.232	13.9	0.5875	0.0000	SURCHARGED
1440 minute winter	S17	1140	72.063	2.543	13.7	2.8760	0.0000	SURCHARGED
1440 minute winter	S19	1140	71.899	2.499	13.7	6.3588	0.0000	SURCHARGED
1440 minute winter	S18	1140	68.968	0.043	13.7	0.0000	0.0000	OK
15 minute winter	S17.1	13	72.088	0.288	10.2	0.1275	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S14	1.015	S15	13.5	0.634	0.366	1.6448	
15 minute winter	S43	23.000	S44	17.2	0.855	0.543	0.4288	
1440 minute winter	S44	23.001	S15	1.4	0.078	0.063	0.1627	
1440 minute winter	S45	24.000	S46	0.3	0.309	0.024	0.1595	
1440 minute winter	S46	24.001	S15	-0.4	-0.025	-0.023	0.2120	
1440 minute winter	S15	1.016	S16	13.5	0.769	1.107	0.4036	
1440 minute winter	S40	25.000	S41	1.1	0.371	0.036	1.3045	
1440 minute winter	S41	25.001	S16	1.1	0.063	0.050	0.1173	
1440 minute winter	S16	1.017	S17	13.6	0.770	1.141	0.1165	
15 minute winter	S42	26.000	S17.1	10.2	0.440	0.475	1.5928	
1440 minute winter	S17	1.018	S19	13.7	0.780	1.080	0.4088	
1440 minute winter	S19	1.019	S18	13.7	2.449	0.079	0.0239	1134.2
15 minute winter	S17.1	26.001	S17	9.5	0.780	0.233	0.0314	

Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 95.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	74.587	0.047	86.5	0.5005	0.0000	OK
30 minute winter	S2	22	72.940	0.280	69.9	0.0000	0.0000	OK
120 minute winter	S3	94	72.786	0.186	29.1	49.4338	0.0000	OK
120 minute winter	S4	98	72.727	0.177	10.7	0.0000	0.0000	OK
120 minute winter	S5	100	72.660	0.160	10.6	0.0000	0.0000	OK
1440 minute winter	S6	1380	72.650	0.950	5.4	8.1304	0.0000	SURCHARGED
1440 minute winter	S20	1380	72.649	0.149	1.6	0.4544	0.0000	OK
1440 minute winter	S21	1380	72.649	0.949	1.6	0.4194	0.0000	SURCHARGED
1440 minute winter	S7	1380	72.649	0.999	6.8	1.1295	0.0000	SURCHARGED
15 minute summer	S25	12	73.000	0.640	30.0	2.1119	0.0000	FLOOD RISK
1440 minute winter	S26	1380	72.649	1.149	2.1	8.6721	0.0000	SURCHARGED
1440 minute winter	S24	1380	72.649	1.222	8.7	1.3816	0.0000	SURCHARGED
1440 minute winter	S27	1380	72.649	0.169	1.7	0.5071	0.0000	OK
1440 minute winter	S28	1380	72.649	1.269	1.7	0.0000	0.0000	SURCHARGED
1440 minute winter	S8	1380	72.649	1.369	10.2	1.9570	0.0000	SURCHARGED
30 minute winter	S29	21	73.426	0.256	29.5	0.9026	0.0000	SURCHARGED
30 minute winter	S30	21	73.375	2.205	30.1	3.1551	0.0000	SURCHARGED
1440 minute winter	S31	1380	72.648	1.574	11.7	1.7807	0.0000	SURCHARGED
15 minute winter	S89	10	73.232	0.179	71.8	0.7946	0.0000	OK
1440 minute winter	S9	1380	72.648	1.628	16.6	1.9150	0.0000	SURCHARGED
15 minute winter	S32	12	74.071	0.431	51.7	2.1448	0.0000	FLOOD RISK
30 minute winter	S33	22	73.827	3.077	38.7	3.7897	0.0000	SURCHARGED
1440 minute winter	S10	1380	72.648	1.998	21.0	2.7818	0.0000	SURCHARGED
1440 minute winter	S11	1380	72.648	2.208	20.9	2.4975	0.0000	SURCHARGED
1440 minute winter	S12	1380	72.648	2.358	20.9	2.6671	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	84.1	0.765	0.035	23.6547	
30 minute winter	S2	1.001	S3	48.6	1.449	0.114	1.3141	
120 minute winter	S3	1.002	S4	10.7	0.206	0.030	2.2563	
120 minute winter	S4	1.003	S5	10.6	0.203	0.030	1.8651	
120 minute winter	S5	1.004	S6	10.5	0.487	0.030	0.6903	
1440 minute winter	S6	1.005	S7	5.3	0.405	0.075	0.8617	
1440 minute winter	S20	2.000	S21	1.6	0.181	0.002	7.0467	
1440 minute winter	S21	2.001	S7	1.5	0.332	0.095	0.1054	
1440 minute winter	S7	1.006	S24	6.8	0.448	0.086	3.1144	
15 minute summer	S25	3.000	S26	21.8	1.241	1.557	0.5897	
1440 minute winter	S26	3.001	S24	2.0	0.323	0.118	0.1412	
1440 minute winter	S24	1.007	S8	8.7	0.503	0.110	2.0589	
1440 minute winter	S27	4.000	S28	1.7	0.211	0.002	29.7444	
1440 minute winter	S28	4.001	S8	-2.4	0.103	-0.003	49.7913	
1440 minute winter	S8	1.008	S31	9.4	0.575	0.119	2.8961	
30 minute winter	S29	5.000	S30	30.1	1.077	0.761	1.1632	
30 minute winter	S30	5.001	S31	20.0	1.135	1.132	0.1707	
1440 minute winter	S31	1.009	S9	11.7	0.516	0.082	1.1845	
15 minute winter	S89	6.000	S9	70.1	2.177	0.884	0.9684	
1440 minute winter	S9	1.010	S10	16.5	0.634	0.116	8.0424	
15 minute winter	S32	7.000	S33	44.8	1.153	1.389	1.4275	
30 minute winter	S33	7.001	S10	26.4	0.664	0.416	0.2671	
1440 minute winter	S10	1.011	S11	20.9	0.650	0.092	6.6453	
1440 minute winter	S11	1.012	S12	20.9	0.619	0.090	4.6288	
1440 minute winter	S12	1.013	S13	20.9	0.504	0.093	7.8932	

Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 95.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S34	11	74.000	1.700	185.5	12.3073	0.0000	FLOOD RISK
120 minute winter	S35	92	73.024	2.874	66.4	80.6883	0.0000	SURCHARGED
1440 minute winter	S36	1380	72.648	0.786	0.1	0.8892	0.0000	SURCHARGED
1440 minute winter	S13	1380	72.648	2.598	33.0	2.9383	0.0000	SURCHARGED
15 minute winter	S47	10	74.974	0.064	14.0	0.1847	0.0000	OK
15 minute winter	S48	11	74.841	0.061	13.6	0.0000	0.0000	OK
15 minute winter	S49	12	74.806	0.076	13.8	0.0000	0.0000	OK
15 minute winter	S50	14	74.740	0.110	13.3	0.0000	0.0000	OK
15 minute winter	S65	11	74.752	0.062	54.4	0.5546	0.0000	OK
15 minute winter	S51	12	74.604	0.554	75.3	0.6011	0.0000	SURCHARGED
30 minute winter	S66	23	74.330	0.391	66.4	0.7579	0.0000	FLOOD RISK
30 minute winter	S52	22	73.958	0.148	50.3	0.2729	0.0000	OK
30 minute winter	S53	22	73.732	0.032	49.9	0.0000	0.0000	OK
120 minute winter	S67	90	73.713	0.353	9.8	0.9292	0.0000	FLOOD RISK
120 minute winter	S68	90	73.712	0.462	9.4	12.3321	0.0000	FLOOD RISK
60 minute winter	S69	53	73.702	0.502	8.2	0.0000	0.0000	FLOOD RISK
60 minute winter	S54	53	73.702	0.542	45.6	0.7219	0.0000	FLOOD RISK
15 minute winter	S59	11	74.783	0.453	75.2	4.9860	0.0000	FLOOD RISK
60 minute winter	S61	47	74.576	0.556	38.2	21.9205	0.0000	FLOOD RISK
120 minute winter	S62	92	74.191	0.191	24.4	0.5329	0.0000	OK
120 minute winter	S63	94	74.183	0.563	23.4	17.2532	0.0000	SURCHARGED
120 minute winter	S64	96	73.517	0.017	15.0	0.0000	0.0000	OK
180 minute winter	S55	152	73.481	0.361	40.7	16.7510	0.0000	SURCHARGED
15 minute winter	S81	11	73.878	0.428	90.8	3.7296	0.0000	FLOOD RISK
60 minute winter	S82	48	73.708	0.448	46.9	38.1861	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S34	8.000	S35	167.3	2.376	2.744	3.4639	
120 minute winter	S35	8.001	S13	20.2	0.924	0.149	0.4725	
1440 minute winter	S36	9.000	S13	0.2	0.009	0.012	0.7446	
1440 minute winter	S13	1.014	S14	32.9	0.479	0.144	5.6404	
15 minute winter	S47	10.000	S48	13.6	0.654	0.029	0.7653	
15 minute winter	S48	10.001	S49	13.8	0.571	0.026	0.2689	
15 minute winter	S49	10.002	S50	13.3	0.448	0.043	2.3983	
15 minute winter	S50	10.003	S51	10.2	0.799	0.901	0.3101	
15 minute winter	S65	11.000	S51	52.6	0.700	0.057	3.9945	
15 minute winter	S51	10.004	S66	75.9	0.258	0.085	23.2050	
30 minute winter	S66	10.005	S52	44.4	0.376	0.027	1.6351	
30 minute winter	S52	10.006	S53	49.9	2.828	0.496	0.2578	
30 minute winter	S53	10.007	S54	49.7	0.245	0.018	12.8525	
120 minute winter	S67	12.000	S68	9.4	0.347	0.310	1.2534	
120 minute winter	S68	12.001	S69	5.0	0.788	0.157	0.5183	
60 minute winter	S69	12.002	S54	8.3	0.184	0.010	22.9042	
60 minute winter	S54	10.008	S55	30.1	0.050	0.042	13.9533	
15 minute winter	S59	13.000	S61	62.4	0.887	0.975	6.5022	
60 minute winter	S61	13.001	S62	13.0	0.585	0.211	0.2812	
120 minute winter	S62	13.002	S63	23.4	0.457	0.245	3.0117	
120 minute winter	S63	13.003	S64	15.0	0.606	0.015	0.7674	
120 minute winter	S64	13.004	S55	15.0	0.274	0.006	6.5085	
180 minute winter	S55	10.009	S56	34.4	0.420	0.043	12.0362	
15 minute winter	S81	14.000	S82	80.7	1.147	1.262	3.9897	
60 minute winter	S82	14.001	S83	12.6	1.344	0.185	0.3422	

Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 95.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S83	296	73.373	0.183	13.7	0.3062	0.0000	OK
15 minute winter	S87	10	73.453	0.113	9.3	0.0989	0.0000	OK
360 minute winter	S88	296	73.373	0.123	1.6	0.0543	0.0000	OK
360 minute winter	S84	304	73.373	0.283	16.9	0.2292	0.0000	OK
360 minute winter	S85	296	73.379	0.409	153.6	0.0651	0.0000	SURCHARGED
360 minute winter	S86	280	73.410	0.490	565.4	0.0000	0.0000	SURCHARGED
480 minute winter	S70	320	73.389	0.389	6.5	1.7670	0.0000	SURCHARGED
480 minute winter	S71	320	73.388	0.438	6.3	20.4332	0.0000	SURCHARGED
360 minute winter	S72	304	73.375	0.475	8.2	0.0000	0.0000	FLOOD RISK
360 minute winter	S56	296	73.377	0.927	464.6	175.1777	0.0000	SURCHARGED
1440 minute winter	S57	1380	72.660	0.260	150.9	0.0000	0.0000	OK
15 minute winter	S73	11	73.283	0.443	34.5	1.4552	0.0000	FLOOD RISK
30 minute winter	S74	24	73.167	0.417	32.2	9.6756	0.0000	SURCHARGED
30 minute winter	S75	25	72.736	0.036	11.8	0.0000	0.0000	OK
30 minute winter	S76	26	72.711	0.031	11.8	0.0000	0.0000	OK
15 minute summer	S77	12	73.427	0.647	31.9	2.1950	0.0000	FLOOD RISK
30 minute winter	S78	28	72.842	0.362	25.7	15.2111	0.0000	FLOOD RISK
15 minute winter	S80	11	73.124	0.674	19.6	0.7885	0.0000	SURCHARGED
30 minute winter	S79	22	72.778	0.448	15.4	0.4870	0.0000	SURCHARGED
1440 minute winter	S90	1380	72.649	0.199	0.1	0.0000	0.0000	SURCHARGED
1440 minute winter	S91	1380	72.648	0.278	0.1	0.1229	0.0000	SURCHARGED
1440 minute winter	S58	1380	72.648	2.648	137.0	1296.7280	0.0000	SURCHARGED
15 minute summer	S39	11	72.931	0.631	34.5	3.1974	0.0000	FLOOD RISK
15 minute winter	S37	10	72.765	0.095	16.3	0.1517	0.0000	OK
30 minute winter	S38	26	72.661	2.661	36.4	9.8972	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S83	14.002	S84	13.1	0.320	0.014	11.5261	
15 minute winter	S87	15.000	S88	9.0	0.644	0.899	0.3942	
360 minute winter	S88	15.001	S84	1.6	0.431	0.173	0.2992	
360 minute winter	S84	14.003	S85	20.9	0.285	0.023	26.7603	
360 minute winter	S85	14.004	S86	156.0	0.373	0.172	16.9036	
360 minute winter	S86	14.005	S56	421.1	0.238	0.128	27.3747	
480 minute winter	S70	16.000	S71	6.3	0.294	0.212	0.5918	
480 minute winter	S71	16.001	S72	6.8	0.199	0.005	8.7132	
360 minute winter	S72	16.002	S56	12.8	0.210	0.011	28.9757	
360 minute winter	S56	10.010	S57	37.3	0.581	0.065	5.6174	
1440 minute winter	S57	10.011	S58	130.1	0.706	0.091	7.7345	
15 minute winter	S73	17.000	S74	32.4	0.815	1.334	1.6043	
30 minute winter	S74	17.001	S75	11.8	1.190	0.454	0.2034	
30 minute winter	S75	17.002	S76	11.8	0.323	0.022	0.6689	
30 minute winter	S76	17.003	S58	11.8	0.402	0.016	0.5933	
15 minute summer	S77	18.000	S78	25.8	1.465	1.468	0.5392	
30 minute winter	S78	18.001	S79	8.8	0.502	0.530	0.2991	
15 minute winter	S80	19.000	S79	18.6	1.057	1.636	0.5081	
30 minute winter	S79	18.002	S58	12.7	1.020	0.259	0.1406	
1440 minute winter	S90	20.000	S91	0.1	0.010	0.012	0.3962	
1440 minute winter	S91	20.001	S58	-0.1	-0.009	-0.011	0.2321	
1440 minute winter	S58	10.012	S14	-28.1	0.251	-0.110	3.2628	
15 minute summer	S39	21.000	S38	24.6	1.395	2.480	0.5556	
15 minute winter	S37	22.000	S38	16.3	1.324	0.727	0.3440	
30 minute winter	S38	21.001	S14	15.6	1.321	0.436	0.0570	

Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 95.22%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S14	1380	72.648	2.778	36.3	7.0695	0.0000	SURCHARGED
1440 minute winter	S43	1380	72.616	0.336	2.2	1.0791	0.0000	FLOOD RISK
1440 minute winter	S44	1380	72.616	2.816	2.2	6.2767	0.0000	SURCHARGED
1440 minute winter	S45	1380	72.615	0.425	0.4	0.2582	0.0000	FLOOD RISK
1440 minute winter	S46	1380	72.615	2.815	0.4	4.7881	0.0000	FLOOD RISK
1440 minute winter	S15	1380	72.615	2.955	14.2	3.3425	0.0000	SURCHARGED
1440 minute winter	S40	1380	72.446	0.576	2.0	1.6652	0.0000	FLOOD RISK
1440 minute winter	S41	1380	72.446	2.796	1.9	13.7771	0.0000	SURCHARGED
1440 minute winter	S16	1380	72.446	2.896	14.3	3.2751	0.0000	SURCHARGED
15 minute winter	S42	11	72.409	0.539	25.7	1.3665	0.0000	FLOOD RISK
1440 minute winter	S17	1380	72.383	2.863	14.5	3.2381	0.0000	SURCHARGED
1440 minute winter	S19	1380	72.200	2.800	14.5	7.1250	0.0000	SURCHARGED
1440 minute winter	S18	1380	68.969	0.044	14.5	0.0000	0.0000	OK
1440 minute winter	S17.1	1380	72.383	0.583	1.6	4.0009	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S14	1.015	S15	13.9	0.630	0.377	1.6448	
1440 minute winter	S43	23.000	S44	2.2	0.479	0.070	0.8480	
1440 minute winter	S44	23.001	S15	2.1	0.122	0.098	0.1627	
1440 minute winter	S45	24.000	S46	0.4	0.334	0.032	0.2106	
1440 minute winter	S46	24.001	S15	-0.4	0.025	-0.019	0.2120	
1440 minute winter	S15	1.016	S16	14.2	0.805	1.159	0.4036	
1440 minute winter	S40	25.000	S41	1.9	0.382	0.062	1.3045	
1440 minute winter	S41	25.001	S16	1.9	0.106	0.086	0.1173	
1440 minute winter	S16	1.017	S17	14.3	0.812	1.203	0.1165	
15 minute winter	S42	26.000	S17.1	24.0	0.604	1.120	1.5928	
1440 minute winter	S17	1.018	S19	14.5	0.823	1.141	0.4088	
1440 minute winter	S19	1.019	S18	14.5	2.482	0.083	0.0249	1261.4
1440 minute winter	S17.1	26.001	S17	1.6	0.405	0.039	0.1025	

Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 96.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	74.594	0.054	112.4	0.5834	0.0000	OK
30 minute winter	S2	22	72.993	0.333	91.4	0.0000	0.0000	FLOOD RISK
120 minute winter	S3	94	72.824	0.224	37.3	62.0409	0.0000	OK
1440 minute winter	S4	1410	72.811	0.261	6.5	0.0000	0.0000	OK
1440 minute winter	S5	1410	72.811	0.311	6.5	0.0000	0.0000	FLOOD RISK
1440 minute winter	S6	1410	72.811	1.111	6.5	21.4621	0.0000	FLOOD RISK
1440 minute winter	S20	1410	72.810	0.310	2.0	0.9478	0.0000	FLOOD RISK
1440 minute winter	S21	1410	72.810	1.110	2.0	0.4907	0.0000	FLOOD RISK
1440 minute winter	S7	1410	72.810	1.160	8.0	1.3121	0.0000	FLOOD RISK
15 minute summer	S25	10	73.000	0.640	38.9	3.4985	0.0000	FLOOD RISK
1440 minute winter	S26	1410	72.810	1.310	2.6	21.2591	0.0000	FLOOD RISK
1440 minute winter	S24	1410	72.810	1.383	10.3	1.5643	0.0000	FLOOD RISK
1440 minute winter	S27	1410	72.810	0.330	2.1	0.9928	0.0000	FLOOD RISK
1440 minute winter	S28	1410	72.810	1.430	2.1	0.0000	0.0000	SURCHARGED
1440 minute winter	S8	1410	72.810	1.530	11.3	2.1880	0.0000	SURCHARGED
15 minute winter	S29	12	73.664	0.494	47.2	1.7384	0.0000	FLOOD RISK
30 minute winter	S30	23	73.504	2.334	36.3	6.4706	0.0000	SURCHARGED
1440 minute winter	S31	1410	72.810	1.736	13.1	1.9635	0.0000	SURCHARGED
15 minute winter	S89	11	73.514	0.461	93.3	2.0499	0.0000	SURCHARGED
1440 minute winter	S9	1410	72.810	1.790	18.9	2.1051	0.0000	SURCHARGED
15 minute winter	S32	11	74.288	0.648	67.2	3.3860	0.0000	FLOOD RISK
30 minute winter	S33	24	73.897	3.147	51.4	9.6060	0.0000	SURCHARGED
1440 minute winter	S10	1410	72.810	2.160	24.2	3.0067	0.0000	SURCHARGED
1440 minute winter	S11	1410	72.810	2.370	24.1	2.6802	0.0000	SURCHARGED
1440 minute winter	S12	1410	72.810	2.520	24.1	2.8497	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S1	1.000	S2	109.5	0.808	0.045	30.4521	
30 minute winter	S2	1.001	S3	63.7	1.492	0.149	2.0280	
120 minute winter	S3	1.002	S4	13.5	0.207	0.038	3.3208	
1440 minute winter	S4	1.003	S5	6.5	0.187	0.018	7.0374	
1440 minute winter	S5	1.004	S6	6.5	0.448	0.018	9.5307	
1440 minute winter	S6	1.005	S7	6.1	0.395	0.087	0.8617	
1440 minute winter	S20	2.000	S21	2.0	0.198	0.003	17.8497	
1440 minute winter	S21	2.001	S7	1.9	0.358	0.119	0.1054	
1440 minute winter	S7	1.006	S24	8.0	0.462	0.102	3.1144	
15 minute summer	S25	3.000	S26	28.1	1.596	2.005	0.5897	
1440 minute winter	S26	3.001	S24	2.5	0.336	0.146	0.1412	
1440 minute winter	S24	1.007	S8	10.3	0.486	0.131	2.0589	
1440 minute winter	S27	4.000	S28	2.1	0.224	0.002	59.9060	
1440 minute winter	S28	4.001	S8	-3.8	0.107	-0.005	62.4703	
1440 minute winter	S8	1.008	S31	10.3	0.559	0.131	2.8961	
15 minute winter	S29	5.000	S30	39.5	1.162	1.000	1.1632	
30 minute winter	S30	5.001	S31	21.0	1.192	1.188	0.1707	
1440 minute winter	S31	1.009	S9	13.1	0.524	0.092	1.1845	
15 minute winter	S89	6.000	S9	85.6	2.153	1.080	1.1931	
1440 minute winter	S9	1.010	S10	18.9	0.614	0.133	8.0424	
15 minute winter	S32	7.000	S33	57.6	1.449	1.786	1.4275	
30 minute winter	S33	7.001	S10	29.8	0.748	0.468	0.2671	
1440 minute winter	S10	1.011	S11	24.1	0.640	0.106	6.6453	
1440 minute winter	S11	1.012	S12	24.1	0.613	0.104	4.6288	
1440 minute winter	S12	1.013	S13	24.1	0.511	0.108	7.8932	

Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 96.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S34	10	74.000	1.700	229.3	16.2158	0.0000	FLOOD RISK
120 minute winter	S35	96	73.178	3.028	85.3	123.7797	0.0000	SURCHARGED
1440 minute winter	S36	1410	72.810	0.948	1.0	1.0720	0.0000	SURCHARGED
1440 minute winter	S13	1410	72.809	2.759	38.4	3.1210	0.0000	SURCHARGED
15 minute winter	S47	10	74.983	0.073	18.2	0.2089	0.0000	OK
15 minute winter	S48	11	74.849	0.069	17.8	0.0000	0.0000	OK
15 minute winter	S49	12	74.815	0.085	17.9	0.0000	0.0000	OK
15 minute winter	S50	14	74.767	0.137	17.2	0.0000	0.0000	OK
15 minute winter	S65	10	74.762	0.072	70.6	0.6494	0.0000	OK
15 minute winter	S51	13	74.673	0.623	98.5	0.6763	0.0000	SURCHARGED
30 minute winter	S66	24	74.398	0.459	81.4	0.8895	0.0000	FLOOD RISK
30 minute winter	S52	23	73.978	0.168	62.4	0.3108	0.0000	OK
60 minute winter	S53	59	73.752	0.052	58.5	0.0000	0.0000	OK
120 minute winter	S67	88	73.777	0.417	12.6	1.0967	0.0000	FLOOD RISK
120 minute winter	S68	88	73.775	0.525	12.1	16.2756	0.0000	FLOOD RISK
60 minute winter	S69	57	73.741	0.541	10.4	0.0000	0.0000	FLOOD RISK
60 minute winter	S54	56	73.740	0.580	59.5	12.9489	0.0000	FLOOD RISK
15 minute summer	S59	10	74.783	0.453	92.9	6.8416	0.0000	FLOOD RISK
60 minute winter	S61	48	74.657	0.637	51.9	35.5227	0.0000	FLOOD RISK
120 minute winter	S62	94	74.255	0.255	27.7	0.7100	0.0000	OK
120 minute winter	S63	98	74.245	0.625	26.6	24.1391	0.0000	FLOOD RISK
180 minute winter	S64	160	73.520	0.020	15.7	0.0000	0.0000	OK
180 minute winter	S55	160	73.519	0.399	45.6	31.7682	0.0000	SURCHARGED
15 minute winter	S81	11	74.099	0.649	117.9	5.9105	0.0000	FLOOD RISK
60 minute winter	S82	50	73.816	0.556	62.9	54.9458	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S34	8.000	S35	201.3	2.859	3.302	3.4639	
120 minute winter	S35	8.001	S13	19.8	0.968	0.146	0.4725	
1440 minute winter	S36	9.000	S13	-1.0	-0.064	-0.069	0.7446	
1440 minute winter	S13	1.014	S14	38.3	0.508	0.167	5.6404	
15 minute winter	S47	10.000	S48	17.8	0.697	0.038	0.9355	
15 minute winter	S48	10.001	S49	17.9	0.612	0.034	0.3276	
15 minute winter	S49	10.002	S50	17.2	0.467	0.055	3.2794	
15 minute winter	S50	10.003	S51	12.6	0.835	1.121	0.4122	
15 minute winter	S65	11.000	S51	69.2	0.714	0.075	7.1870	
15 minute winter	S51	10.004	S66	85.7	0.268	0.096	30.3973	
30 minute winter	S66	10.005	S52	56.6	0.404	0.034	1.9352	
30 minute winter	S52	10.006	S53	61.8	2.933	0.615	0.3042	
60 minute winter	S53	10.007	S54	59.5	0.219	0.021	15.6785	
120 minute winter	S67	12.000	S68	12.1	0.366	0.398	1.2534	
120 minute winter	S68	12.001	S69	5.6	0.839	0.174	0.5183	
60 minute winter	S69	12.002	S54	11.8	0.176	0.015	25.7266	
60 minute winter	S54	10.008	S55	33.7	0.059	0.047	15.8641	
15 minute summer	S59	13.000	S61	76.9	1.092	1.201	6.5022	
60 minute winter	S61	13.001	S62	13.4	0.595	0.217	0.3837	
120 minute winter	S62	13.002	S63	26.6	0.471	0.278	3.4308	
120 minute winter	S63	13.003	S64	15.8	0.619	0.016	0.7950	
180 minute winter	S64	13.004	S55	17.4	0.207	0.007	7.6157	
180 minute winter	S55	10.009	S56	37.0	0.429	0.046	14.5169	
15 minute winter	S81	14.000	S82	102.6	1.458	1.604	3.9897	
60 minute winter	S82	14.001	S83	14.2	1.370	0.209	0.4907	

Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 96.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	S83	312	73.411	0.221	15.9	0.3707	0.0000	OK
15 minute winter	S87	11	73.504	0.164	12.0	0.1432	0.0000	SURCHARGED
360 minute winter	S88	312	73.412	0.162	2.0	0.0714	0.0000	SURCHARGED
360 minute winter	S84	312	73.412	0.322	19.8	0.2606	0.0000	SURCHARGED
360 minute winter	S85	304	73.418	0.448	177.6	0.0712	0.0000	SURCHARGED
360 minute winter	S86	288	73.450	0.530	658.8	0.0000	0.0000	SURCHARGED
120 minute winter	S70	82	73.483	0.483	21.3	2.1934	0.0000	FLOOD RISK
120 minute winter	S71	84	73.476	0.526	20.3	25.2304	0.0000	FLOOD RISK
360 minute winter	S72	312	73.413	0.513	10.0	0.0000	0.0000	FLOOD RISK
360 minute winter	S56	304	73.415	0.965	539.8	200.7511	0.0000	SURCHARGED
1440 minute winter	S57	1410	72.817	0.417	241.8	0.0000	0.0000	SURCHARGED
15 minute winter	S73	11	73.431	0.591	44.8	1.9415	0.0000	FLOOD RISK
30 minute winter	S74	25	73.236	0.486	41.9	15.3473	0.0000	FLOOD RISK
1440 minute winter	S75	1410	72.810	0.110	3.3	0.0000	0.0000	OK
1440 minute winter	S76	1410	72.810	0.130	3.3	0.0000	0.0000	OK
15 minute summer	S77	10	73.427	0.647	41.5	3.5344	0.0000	FLOOD RISK
60 minute winter	S78	48	72.918	0.438	22.7	21.2770	0.0000	FLOOD RISK
15 minute winter	S80	11	73.383	0.933	25.5	1.0918	0.0000	FLOOD RISK
30 minute winter	S79	24	72.813	0.483	21.1	2.5670	0.0000	SURCHARGED
1440 minute winter	S90	1410	72.810	0.360	0.2	0.0000	0.0000	FLOOD RISK
1440 minute winter	S91	1410	72.810	0.440	0.4	4.9640	0.0000	SURCHARGED
1440 minute winter	S58	1410	72.810	2.810	201.1	1620.1840	0.0000	SURCHARGED
15 minute summer	S39	10	72.931	0.631	44.8	4.8659	0.0000	FLOOD RISK
60 minute winter	S37	43	72.817	0.147	11.9	0.2352	0.0000	OK
1440 minute winter	S38	1410	72.810	2.810	4.2	17.2117	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	S83	14.002	S84	15.4	0.316	0.016	14.3145	
15 minute winter	S87	15.000	S88	11.4	0.671	1.138	0.4802	
360 minute winter	S88	15.001	S84	2.0	0.438	0.217	0.3187	
360 minute winter	S84	14.003	S85	25.1	0.301	0.027	31.3359	
360 minute winter	S85	14.004	S86	187.6	0.389	0.207	19.3094	
360 minute winter	S86	14.005	S56	493.8	0.281	0.150	29.8198	
120 minute winter	S70	16.000	S71	20.3	0.510	0.678	0.5918	
120 minute winter	S71	16.001	S72	12.3	0.301	0.010	8.8388	
360 minute winter	S72	16.002	S56	15.2	0.215	0.014	32.4516	
360 minute winter	S56	10.010	S57	96.1	0.603	0.167	17.8945	
1440 minute winter	S57	10.011	S58	199.0	0.721	0.139	14.6868	
15 minute winter	S73	17.000	S74	41.8	1.052	1.722	1.6043	
30 minute winter	S74	17.001	S75	12.9	1.224	0.498	0.2164	
1440 minute winter	S75	17.002	S76	3.3	0.193	0.006	2.9861	
1440 minute winter	S76	17.003	S58	3.3	0.248	0.005	4.4129	
15 minute summer	S77	18.000	S78	32.0	1.817	1.820	0.5392	
60 minute winter	S78	18.001	S79	9.4	0.532	0.562	0.2991	
15 minute winter	S80	19.000	S79	24.1	1.370	2.121	0.5081	
30 minute winter	S79	18.002	S58	13.2	1.032	0.271	0.1451	
1440 minute winter	S90	20.000	S91	-0.2	-0.014	-0.022	0.3962	
1440 minute winter	S91	20.001	S58	-0.4	-0.023	-0.031	0.2321	
1440 minute winter	S58	10.012	S14	-35.1	-0.221	-0.137	3.2628	
15 minute summer	S39	21.000	S38	31.2	1.771	3.149	0.5556	
60 minute winter	S37	22.000	S38	11.9	1.093	0.532	0.4120	
1440 minute winter	S38	21.001	S14	4.1	0.231	0.114	0.0570	

Results for 100 year +20% CC Critical Storm Duration. Lowest mass balance: 96.32%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	S14	1410	72.809	2.939	42.3	7.4808	0.0000	FLOOD RISK
1440 minute winter	S43	1380	72.776	0.496	2.7	1.5948	0.0000	FLOOD RISK
1440 minute winter	S44	1380	72.776	2.976	2.6	14.5278	0.0000	FLOOD RISK
1440 minute winter	S45	1380	72.776	0.586	0.5	0.3555	0.0000	FLOOD RISK
1440 minute winter	S46	1380	72.776	2.976	0.5	5.8839	0.0000	FLOOD RISK
1440 minute winter	S15	1380	72.776	3.116	14.6	3.5239	0.0000	FLOOD RISK
600 minute winter	S40	615	72.500	0.630	4.5	1.8587	0.0000	FLOOD RISK
1440 minute winter	S41	1350	72.602	2.952	2.3	24.0039	0.0000	FLOOD RISK
1440 minute winter	S16	1350	72.602	3.052	14.7	3.4518	0.0000	FLOOD RISK
15 minute winter	S42	11	72.500	0.630	33.3	1.6157	0.0000	FLOOD RISK
1440 minute winter	S17	1320	72.538	3.018	14.9	3.4130	0.0000	FLOOD RISK
1440 minute winter	S19	1320	72.345	2.945	14.9	7.4949	0.0000	SURCHARGED
1440 minute winter	S18	1320	68.969	0.044	14.8	0.0000	0.0000	OK
1440 minute winter	S17.1	1320	72.538	0.738	2.0	10.7018	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	S14	1.015	S15	14.5	0.618	0.393	1.6448	
1440 minute winter	S43	23.000	S44	2.6	0.489	0.082	0.8480	
1440 minute winter	S44	23.001	S15	2.5	0.141	0.113	0.1627	
1440 minute winter	S45	24.000	S46	0.5	0.335	0.040	0.2106	
1440 minute winter	S46	24.001	S15	0.4	0.032	0.022	0.2120	
1440 minute winter	S15	1.016	S16	14.6	0.831	1.196	0.4036	
600 minute winter	S40	25.000	S41	4.4	0.424	0.140	1.3045	
1440 minute winter	S41	25.001	S16	2.2	0.127	0.103	0.1173	
1440 minute winter	S16	1.017	S17	14.6	0.832	1.233	0.1165	
15 minute winter	S42	26.000	S17.1	31.5	0.792	1.468	1.5928	
1440 minute winter	S17	1.018	S19	14.9	0.844	1.169	0.4088	
1440 minute winter	S19	1.019	S18	14.8	2.497	0.085	0.0254	1316.0
1440 minute winter	S17.1	26.001	S17	2.0	0.405	0.048	0.1025	