Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	1	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	6	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Inverts
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	0.400
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)
53		5.00	10.400			161026.272	49304.739	0.640
52			10.297			161029.884	49290.595	0.569
51		5.00	10.300			161034.070	49296.038	0.400
50		5.00	10.400			161030.248	49304.407	0.350
SW-01			10.300	700		161032.013	49294.619	0.780
48	0.013	5.00	10.276			161039.342	49293.075	0.569
47		5.00	10.460			161041.870	49307.455	0.460
46		5.00	10.300			161042.428	49298.230	0.350
SW-02			10.270	700		161045.631	49299.665	0.753
44			10.255			161048.544	49295.488	0.569
43		5.00	10.270			161059.309	49309.432	0.575
42			10.235			161057.553	49296.345	0.569
41		5.00	10.216			161067.220	49298.691	0.555
40	0.017	5.00	10.214			161066.110	49290.649	0.570
39		5.00	10.230			161071.986	49310.482	0.250
SW-04			10.216	700		161069.847	49297.610	0.722
37			10.205			161069.553	49290.105	0.569
36		5.00	10.230			161074.227	49311.417	0.250
35		5.00	10.194			161073.315	49301.052	0.300
SW-05			10.216	700		161071.911	49297.381	0.722
33			10.201			161071.569	49290.040	0.569
32		5.00	10.194			161075.785	49298.697	0.550
31			10.194			161074.752	49289.896	0.569
30		5.00	10.183			161081.820	49297.865	0.553
29			10.181			161080.817	49289.651	0.569
28		5.00	10.180			161084.968	49299.402	0.300
27		5.00	10.160			161086.911	49309.428	0.200
SW-06			10.180	700		161085.376	49295.907	0.743
25			10.171			161085.159	49289.476	0.568
24		5.00	10.160			161089.206	49311.922	0.200
SW-07			10.180	700		161087.028	49295.823	0.743
21	0.015	5.00	10.167			161087.209	49289.463	0.569
20		5.00	10.130			161096.381	49303.591	0.515
19			10.123			161094.252	49288.763	0.540
18		5.00	10.110			161100.338	49310.425	0.200
17		5.00	10.130			161096.637	49310.914	0.200
SW-08			10.150	700		161098.181	49294.483	0.737
15			10.112			161099.183	49288.072	0.540
14		5.00	10.125			161107.337	49301.900	0.533
13	0.018	5.00	10.125			161105.167	49286.789	0.566
12		5.00	10.115			161126.912	49285.201	0.265

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Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)
SW-09			10.115	700		161116.529	49286.837	0.870
10	0.008	5.00	10.110			161111.313	49289.247	0.565
9		5.00	9.950			161129.855	49310.410	0.200
SW-13			10.050	700		161120.470	49311.513	0.767
7		5.00	10.125			161106.203	49300.505	0.300
6		5.00	10.065			161107.404	49309.111	0.300
SW-12			10.065	700		161109.040	49306.931	0.775
4	0.008	5.00	10.065			161113.813	49307.083	0.559
SW-14 (HYDRO)			10.000	1200		161115.614	49312.745	0.806
SW-15			9.950	1200		161128.995	49311.404	0.546
DITCH HEADWALL			9.960	225	225	161131.491	49318.685	0.607
54			10.230			161059.533	49294.998	0.569
SW-03			10.234	700		161059.914	49298.254	0.780
56			10.270			161060.228	49312.027	0.300
57		5.00	10.270			161061.692	49311.725	0.270
58		5.00	10.240			161060.312	49301.831	0.350
59			10.080			161113.241	49302.960	0.565
SW-11			10.085	700		161118.384	49302.118	0.781
61		5.00	10.100			161126.865	49300.847	0.300
62			10.088			161112.736	49299.347	0.565
63		5.00	10.100			161126.272	49297.681	0.548
64			10.094			161112.303	49296.248	0.564
SW-10			10.090	700		161116.164	49295.776	0.775
66		5.00	10.100			161125.552	49295.671	0.300

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)
1.022	SW-15	DITCH HEADWALL	7.697	0.600	9.404	9.353	0.051	150.0	225	10.01	38.8
1.021	SW-14 (HYDRO)	SW-15	13.448	0.600	9.494	9.404	0.090	150.0	225	9.89	39.1
1.020	4	SW-14 (HYDRO)	5.942	0.600	9.506	9.494	0.012	495.1	225	9.68	39.5
1.019	59	4	4.162	0.600	9.515	9.506	0.009	462.5	150	9.51	39.9
27.001	SW-13	4	7.996	0.600	9.583	9.506	0.077	103.8	100	5.33	50.0
28.001	SW-12	4	4.777	0.600	9.590	9.506	0.084	56.9	100	5.16	50.0
28.000	7	SW-12	7.024	0.600	9.825	9.590	0.235	29.9	100	5.08	50.0
29.000	6	SW-12	2.726	0.600	9.765	9.590	0.175	15.6	100	5.02	50.0
27.000	9	SW-13	9.450	0.600	9.750	9.583	0.167	56.6	100	5.15	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)
1.022	1.065	42.3	24.6	0.321	0.382	0.221	0.0	123	1.105
1.021	1.065	42.3	24.8	0.281	0.321	0.221	0.0	123	1.105
1.020	0.581	23.1	25.1	0.334	0.281	0.221	0.0	225	0.592
1.019	0.461	8.1	22.5	0.415	0.409	0.197	0.0	150	0.470
27.001	0.754	5.9	1.4	0.367	0.459	0.010	0.0	33	0.617
28.001	1.023	8.0	1.0	0.375	0.459	0.007	0.0	24	0.695
28.000	1.416	11.1	0.3	0.200	0.375	0.002	0.0	11	0.603
29.000	1.967	15.4	0.7	0.200	0.375	0.005	0.0	14	0.984
27.000	1.026	8.1	1.4	0.100	0.367	0.010	0.0	29	0.773

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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)
1.018	62	59	3.648	0.600	9.523	9.515	0.008	456.0	150	9.36	40.2
26.001	SW-11	59	5.237	0.600	9.604	9.515	0.089	58.8	100	5.21	50.0
26.000	61	SW-11	8.577	0.600	9.800	9.604	0.196	43.8	100	5.12	50.0
1.017	64	62	3.129	0.600	9.530	9.523	0.007	447.0	150	9.23	40.5
25.000	63	62	13.638	0.600	9.552	9.523	0.029	470.3	100	5.65	50.0
1.016	10	64	7.071	0.600	9.545	9.530	0.015	471.4	150	9.12	40.8
24.002	SW-10	64	3.894	0.600	9.615	9.530	0.085	45.8	100	5.20	50.0
24.001	66	SW-10	9.390	0.600	9.800	9.615	0.185	50.8	100	5.14	50.0
1.015	13	10	6.619	0.600	9.559	9.545	0.014	472.8	150	8.86	41.4
23.001	SW-09	10	5.755	0.600	9.557	9.545	0.012	479.6	100	5.41	50.0
23.000	12	SW-09	10.527	0.600	9.850	9.545	0.305	34.5	100	5.13	50.0
1.014	15	13	6.120	0.600	9.572	9.559	0.013	470.8	150	8.62	42.0
22.000	14	13	15.266	0.600	9.592	9.559	0.033	462.6	100	5.72	50.0
1.013	19	15	4.979	0.600	9.583	9.572	0.011	452.7	150	8.39	42.6
20.001	SW-08	15	6.489	0.600	9.713	9.572	0.141	46.0	100	5.41	50.0
21.000	18	SW-08	16.087	0.600	9.910	9.713	0.197	81.7	100	5.31	50.0
20.000	17	SW-08	16.512	0.600	9.930	9.713	0.217	76.1	100	5.31	50.0
1.012	21	19	7.078	0.600	9.598	9.583	0.015	471.8	150	8.21	43.1
19.000	20	19	14.980	0.600	9.615	9.583	0.032	468.1	100	5.72	50.0
1.011	25	21	2.050	0.600	9.603	9.598	0.005	410.0	150	7.95	43.8
17.000	24	SW-07	16.246	0.600	9.960	9.737	0.223	72.9	100	5.30	50.0
18.000	SW-07	21	6.363	0.600	9.737	9.598	0.139	45.8	100	5.39	50.0
1.010	29	25	4.346	0.600	9.612	9.603	0.009	482.8	150	7.89	44.0
15.001	SW-06	25	6.436	0.600	9.737	9.603	0.134	48.0	100	5.33	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)
1.018	0.464	8.2	22.5	0.415	0.415	0.194	0.0	150	0.473
26.001	1.006	7.9	0.3	0.381	0.465	0.002	0.0	14	0.483
26.000	1.168	9.2	0.3	0.200	0.381	0.002	0.0	12	0.518
1.017	0.469	8.3	21.9	0.414	0.415	0.188	0.0	150	0.478
25.000	0.348	2.7	0.9	0.448	0.465	0.006	0.0	39	0.311
1.016	0.456	8.1	21.4	0.415	0.414	0.183	0.0	150	0.465
24.002	1.142	9.0	0.8	0.375	0.464	0.005	0.0	20	0.696
24.001	1.084	8.5	0.7	0.200	0.375	0.005	0.0	20	0.661
1.015	0.456	8.1	20.1	0.416	0.415	0.169	0.0	150	0.464
23.001	0.345	2.7	0.9	0.458	0.465	0.006	0.0	39	0.308
23.000	1.317	10.3	0.9	0.165	0.470	0.006	0.0	20	0.804
1.014	0.457	8.1	17.5	0.390	0.416	0.145	0.0	150	0.465
22.000	0.351	2.8	0.8	0.433	0.466	0.006	0.0	38	0.308
1.013	0.466	8.2	16.4	0.390	0.390	0.134	0.0	150	0.475
20.001	1.139	8.9	1.6	0.337	0.440	0.011	0.0	29	0.859
21.000	0.852	6.7	0.6	0.100	0.337	0.004	0.0	20	0.519
20.000	0.883	6.9	1.0	0.100	0.337	0.007	0.0	25	0.622
1.012	0.456	8.1	15.8	0.419	0.390	0.128	0.0	150	0.465
19.000	0.349	2.7	0.9	0.415	0.440	0.006	0.0	39	0.309
1.011	0.490	8.7	13.6	0.418	0.419	0.108	0.0	150	0.499
17.000	0.903	7.1	0.6	0.100	0.343	0.004	0.0	20	0.550
18.000	1.142	9.0	0.6	0.343	0.469	0.004	0.0	18	0.645
1.010	0.451	8.0	12.4	0.419	0.418	0.098	0.0	150	0.459
15.001	1.115	8.8	1.4	0.343	0.468	0.010	0.0	28	0.827

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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)
16.000	28	SW-06	3.524	0.600	9.880	9.737	0.143	24.6	100	5.04	50.0
15.000	27	SW-06	13.609	0.600	9.960	9.737	0.223	61.0	100	5.23	50.0
1.009	31	29	6.070	0.600	9.625	9.612	0.013	466.9	150	7.72	44.5
14.000	30	29	8.275	0.600	9.630	9.612	0.018	459.7	100	5.39	50.0
1.008	33	31	3.186	0.600	9.632	9.625	0.007	455.2	150	7.50	45.1
13.000	32	31	8.861	0.600	9.644	9.625	0.019	466.4	100	5.42	50.0
1.007	37	33	2.017	0.600	9.636	9.632	0.004	504.3	150	7.39	45.5
11.001	SW-05	33	7.352	0.600	9.794	9.632	0.162	45.4	100	5.38	50.0
11.000	36	SW-05	14.227	0.600	9.980	9.794	0.186	76.5	100	5.27	50.0
12.000	35	SW-05	3.946	0.600	9.894	9.794	0.100	39.5	100	5.05	50.0
1.006	40	37	3.486	0.600	9.644	9.636	0.008	435.7	150	7.31	45.7
10.001	SW-04	37	7.511	0.600	9.794	9.636	0.158	47.5	100	5.35	50.0
10.000	39	SW-04	13.049	0.600	9.980	9.794	0.186	70.2	100	5.24	50.0
1.005	54	40	7.885	0.600	9.661	9.644	0.017	463.8	150	7.19	46.1
9.000	41	40	8.118	0.600	9.661	9.644	0.017	477.5	100	5.39	50.0
1.004	42	54	2.395	0.600	9.666	9.661	0.005	478.9	150	6.91	47.1
7.002	SW-03	54	3.278	0.600	9.754	9.661	0.093	35.2	100	5.30	50.0
8.000	58	SW-03	3.599	0.600	9.890	9.754	0.136	26.5	100	5.04	50.0
7.001	56	SW-03	13.777	0.600	9.970	9.754	0.216	63.8	100	5.26	50.0
7.000	57	56	1.553	0.600	10.000	9.970	0.030	51.8	100	5.02	50.0
1.003	44	42	9.050	0.600	9.686	9.666	0.020	452.5	150	6.82	47.4
6.000	43	42	13.204	0.600	9.695	9.666	0.029	455.3	100	5.62	50.0
1.002	48	44	9.513	0.600	9.707	9.686	0.021	453.0	150	6.49	48.5
4.001	SW-02	44	5.098	0.600	9.817	9.686	0.131	38.9	100	5.20	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)
16.000	1.561	12.3	0.6	0.200	0.343	0.004	0.0	14	0.780
15.000	0.987	7.8	0.9	0.100	0.343	0.006	0.0	22	0.644
1.009	0.459	8.1	12.2	0.419	0.419	0.096	0.0	150	0.467
14.000	0.352	2.8	0.4	0.453	0.469	0.003	0.0	25	0.246
1.008	0.465	8.2	12.0	0.419	0.419	0.093	0.0	150	0.473
13.000	0.350	2.7	0.4	0.450	0.469	0.003	0.0	27	0.253
1.007	0.441	7.8	10.8	0.419	0.419	0.083	0.0	150	0.449
11.001	1.147	9.0	1.4	0.322	0.469	0.010	0.0	27	0.837
11.000	0.881	6.9	0.9	0.150	0.322	0.006	0.0	24	0.598
12.000	1.231	9.7	0.6	0.200	0.322	0.004	0.0	17	0.676
1.006	0.475	8.4	9.7	0.420	0.419	0.074	0.0	150	0.484
10.001	1.120	8.8	1.3	0.322	0.469	0.009	0.0	26	0.804
10.000	0.920	7.2	1.3	0.150	0.322	0.009	0.0	29	0.693
1.005	0.460	8.1	7.2	0.419	0.420	0.054	0.0	109	0.519
9.000	0.346	2.7	0.4	0.455	0.470	0.003	0.0	25	0.242
1.004	0.453	8.0	5.6	0.419	0.419	0.041	0.0	92	0.489
7.002	1.303	10.2	1.8	0.380	0.469	0.013	0.0	29	0.983
8.000	1.506	11.8	0.4	0.250	0.380	0.003	0.0	13	0.698
7.001	0.966	7.6	1.4	0.200	0.380	0.010	0.0	29	0.739
7.000	1.073	8.4	0.7	0.170	0.200	0.005	0.0	19	0.638
1.003	0.466	8.2	5.1	0.419	0.419	0.038	0.0	86	0.491
6.000	0.354	2.8	0.5	0.475	0.469	0.004	0.0	29	0.269
1.002	0.466	8.2	4.0	0.419	0.419	0.029	0.0	74	0.462
4.001	1.240	9.7	1.3	0.353	0.469	0.009	0.0	25	0.859

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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)
4.000	47	SW-02	8.650	0.600	10.000	9.817	0.183	47.3	100	5.13	50.0
5.000	46	SW-02	3.510	0.600	9.950	9.817	0.133	26.4	100	5.04	50.0
1.001	52	48	9.778	0.600	9.728	9.707	0.021	465.6	100	6.15	49.8
2.001	SW-01	48	7.490	0.600	9.820	9.707	0.113	66.3	100	5.27	50.0
3.000	51	SW-01	2.499	0.600	9.900	9.820	0.080	31.2	100	5.03	50.0
2.000	50	SW-01	9.946	0.600	10.050	9.820	0.230	43.2	100	5.14	50.0
1.000	53	52	14.598	0.600	9.760	9.728	0.032	456.2	100	5.69	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)
4.000	1.124	8.8	1.0	0.360	0.353	0.007	0.0	23	0.749
5.000	1.508	11.8	0.3	0.250	0.353	0.002	0.0	11	0.612
1.001	0.350	2.7	1.5	0.469	0.469	0.010	0.0	53	0.358
2.001	0.947	7.4	0.8	0.380	0.469	0.005	0.0	21	0.604
3.000	1.385	10.9	0.3	0.300	0.380	0.002	0.0	12	0.616
2.000	1.175	9.2	0.4	0.250	0.380	0.003	0.0	15	0.606
1.000	0.354	2.8	1.5	0.540	0.469	0.010	0.0	53	0.362

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections		Link	IL (m)	Dia (mm)
53	161026.272	49304.739	10.400	0.640				0	1.000	9.760	100
52	161029.884	49290.595	10.297	0.569				1	1.000	9.728	100
								0	1.001	9.728	100
51	161034.070	49296.038	10.300	0.400				0	3.000	9.900	100
50	161030.248	49304.407	10.400	0.350				0	2.000	10.050	100
SW-01	161032.013	49294.619	10.300	0.780	700			1	2.000	9.820	100
								2	3.000	9.820	100
								0	2.001	9.820	100
48	161039.342	49293.075	10.276	0.569				1	2.001	9.707	100
								2	1.001	9.707	100
								0	1.002	9.707	150
47	161041.870	49307.455	10.460	0.460				0	4.000	10.000	100

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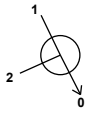
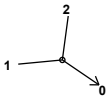
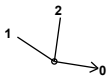
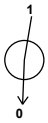
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections		Link	IL (m)	Dia (mm)
46	161042.428	49298.230	10.300	0.350				0	5.000	9.950	100
SW-02	161045.631	49299.665	10.270	0.753	700			1	4.000	9.817	100
								2	5.000	9.817	100
								0	4.001	9.817	100
44	161048.544	49295.488	10.255	0.569				1	4.001	9.686	100
								2	1.002	9.686	150
								0	1.003	9.686	150
43	161059.309	49309.432	10.270	0.575				0	6.000	9.695	100
42	161057.553	49296.345	10.235	0.569				1	1.003	9.666	150
								2	6.000	9.666	100
								0	1.004	9.666	150
41	161067.220	49298.691	10.216	0.555				0	9.000	9.661	100
40	161066.110	49290.649	10.214	0.570				1	1.005	9.644	150
								2	9.000	9.644	100
								0	1.006	9.644	150
39	161071.986	49310.482	10.230	0.250				0	10.000	9.980	100
SW-04	161069.847	49297.610	10.216	0.722	700			1	10.000	9.794	100
								0	10.001	9.794	100
37	161069.553	49290.105	10.205	0.569				1	10.001	9.636	100
								2	1.006	9.636	150
								0	1.007	9.636	150
36	161074.227	49311.417	10.230	0.250				0	11.000	9.980	100
35	161073.315	49301.052	10.194	0.300				0	12.000	9.894	100
SW-05	161071.911	49297.381	10.216	0.722	700			1	11.000	9.794	100
								2	12.000	9.794	100
								0	11.001	9.794	100

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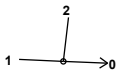
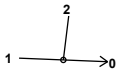
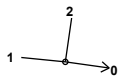
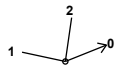
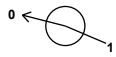
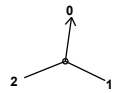
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections		Link	IL (m)	Dia (mm)
33	161071.569	49290.040	10.201	0.569				1	11.001	9.632	100
								2	1.007	9.632	150
								0	1.008	9.632	150
32	161075.785	49298.697	10.194	0.550				0	13.000	9.644	100
31	161074.752	49289.896	10.194	0.569				1	1.008	9.625	150
								2	13.000	9.625	100
								0	1.009	9.625	150
30	161081.820	49297.865	10.183	0.553				0	14.000	9.630	100
29	161080.817	49289.651	10.181	0.569				1	1.009	9.612	150
								2	14.000	9.612	100
								0	1.010	9.612	150
28	161084.968	49299.402	10.180	0.300				0	16.000	9.880	100
27	161086.911	49309.428	10.160	0.200				0	15.000	9.960	100
SW-06	161085.376	49295.907	10.180	0.743	700			1	15.000	9.737	100
								2	16.000	9.737	100
								0	15.001	9.737	100
25	161085.159	49289.476	10.171	0.568				1	15.001	9.603	100
								2	1.010	9.603	150
								0	1.011	9.603	150
24	161089.206	49311.922	10.160	0.200				0	17.000	9.960	100
SW-07	161087.028	49295.823	10.180	0.743	700			1	17.000	9.737	100
								0	18.000	9.737	100
21	161087.209	49289.463	10.167	0.569				1	18.000	9.598	100
								2	1.011	9.598	150
								0	1.012	9.598	150
20	161096.381	49303.591	10.130	0.515				0	19.000	9.615	100

ARUN DISTRICT COUNCIL AL/125/21/OUT

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections		Link	IL (m)	Dia (mm)
19	161094.252	49288.763	10.123	0.540				1	1.012	9.583	150
								2	19.000	9.583	100
								0	1.013	9.583	150
18	161100.338	49310.425	10.110	0.200				0	21.000	9.910	100
17	161096.637	49310.914	10.130	0.200				0	20.000	9.930	100
SW-08	161098.181	49294.483	10.150	0.737	700			1	20.000	9.713	100
								2	21.000	9.713	100
								0	20.001	9.713	100
15	161099.183	49288.072	10.112	0.540				1	20.001	9.572	100
								2	1.013	9.572	150
								0	1.014	9.572	150
14	161107.337	49301.900	10.125	0.533				0	22.000	9.592	100
13	161105.167	49286.789	10.125	0.566				1	1.014	9.559	150
								2	22.000	9.559	100
								0	1.015	9.559	150
12	161126.912	49285.201	10.115	0.265				0	23.000	9.850	100
SW-09	161116.529	49286.837	10.115	0.870	700			1	23.000	9.545	100
								0	23.001	9.557	100
10	161111.313	49289.247	10.110	0.565				1	23.001	9.545	100
								2	1.015	9.545	150
								0	1.016	9.545	150
9	161129.855	49310.410	9.950	0.200				0	27.000	9.750	100
SW-13	161120.470	49311.513	10.050	0.767	700			1	27.000	9.583	100
								0	27.001	9.583	100
7	161106.203	49300.505	10.125	0.300				0	28.000	9.825	100

ARUN DISTRICT COUNCIL AL/52/21/OUT

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
6	161107.404	49309.111	10.065	0.300			0	29.000	9.765	100
SW-12	161109.040	49306.931	10.065	0.775	700		1	28.000	9.590	100
							2	29.000	9.590	100
							0	28.001	9.590	100
4	161113.813	49307.083	10.065	0.559			1	28.001	9.506	100
							2	27.001	9.506	100
							3	1.019	9.506	150
							0	1.020	9.506	225
SW-14 (HYDRO)	161115.614	49312.745	10.000	0.806	1200		1	1.020	9.494	225
							0	1.021	9.494	225
SW-15	161128.995	49311.404	9.950	0.546	1200		1	1.021	9.404	225
							0	1.022	9.404	225
DITCH HEADWALL	161131.491	49318.685	9.960	0.607	225	225	1	1.022	9.353	225
54	161059.533	49294.998	10.230	0.569			1	7.002	9.661	100
							2	1.004	9.661	150
							0	1.005	9.661	150
SW-03	161059.914	49298.254	10.234	0.780	700		1	7.001	9.754	100
							2	8.000	9.754	100
							0	7.002	9.754	100
56	161060.228	49312.027	10.270	0.300			1	7.000	9.970	100
							0	7.001	9.970	100
57	161061.692	49311.725	10.270	0.270			0	7.000	10.000	100
58	161060.312	49301.831	10.240	0.350			0	8.000	9.890	100
59	161113.241	49302.960	10.080	0.565			1	1.018	9.515	150
							2	26.001	9.515	100
							0	1.019	9.515	150
SW-11	161118.384	49302.118	10.085	0.781	700		1	26.000	9.604	100
							0	26.001	9.604	100

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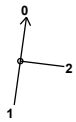
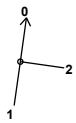
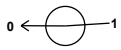
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
61	161126.865	49300.847	10.100	0.300						
							0	26.000	9.800	100
62	161112.736	49299.347	10.088	0.565				1	1.017	9.523	150
								2	25.000	9.523	100
							0	1.018	9.523	150
63	161126.272	49297.681	10.100	0.548						
							0	25.000	9.552	100
64	161112.303	49296.248	10.094	0.564				1	1.016	9.530	150
								2	24.002	9.530	100
							0	1.017	9.530	150
SW-10	161116.164	49295.776	10.090	0.775	700			1	24.001	9.615	100
							0	24.002	9.615	100
66	161125.552	49295.671	10.100	0.300						
							0	24.001	9.800	100

Simulation Settings

Rainfall Methodology	FSR	Additional Storage (m³/ha)	20.0
FSR Region	England and Wales	Check Discharge Rate(s)	✓
M5-60 (mm)	20.000	1 year (l/s)	0.3
Ratio-R	0.400	10 year (l/s)	0.6
Summer CV	0.750	30 year (l/s)	0.9
Winter CV	0.840	100 year (l/s)	1.2
Analysis Speed	Normal	500 year (l/s)	1.7
Skip Steady State	x	Check Discharge Volume	✓
Drain Down Time (mins)	240	100 year +40% 360 minute (m³)	57

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	10	0	0
10	20	0	0
30	20	0	0
100	40	0	0
500	40	0	0

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Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 100 year	3.19
Greenfield Method	IH124	Growth Factor 500 year	4.49
Positively Drained Area (ha)	0.208	Betterment (%)	6
SAAR (mm)	749	QBar	0.4
Soil Index	2	Q 1 year (l/s)	0.3
SPR	0.30	Q 10 year (l/s)	0.6
Region	7	Q 30 year (l/s)	0.9
Growth Factor 1 year	0.85	Q 100 year (l/s)	1.2
Growth Factor 10 year	1.62	Q 500 year (l/s)	1.7
Growth Factor 30 year	2.40		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	40
Positively Drained Area (ha)	0.208	Storm Duration (mins)	360
Soil Index	2	Betterment (%)	6
SPR	0.30	PR	0.336
CWI	112.444	Runoff Volume (m³)	57

Node SW-14 (HYDRO) Online Hydro-Brake® Control

Flap Valve	x	Objective	(FP) Future proof
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	9.494	Product Number	CTL-SFP-0058-1200-0400-1200
Design Depth (m)	0.400	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.2	Min Node Diameter (mm)	1200

Node 48 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.707	Slope (1:X)	460.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	3.0	Width (m)	11.400	Inf Depth (m)	0.300
Porosity	0.95	Length (m)	11.400		

Node 21 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.598	Slope (1:X)	460.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	3.0	Width (m)	12.250	Inf Depth (m)	0.300
Porosity	0.95	Length (m)	12.250		

Node 40 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.644	Slope (1:X)	460.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	3.0	Width (m)	10.490	Inf Depth (m)	0.300
Porosity	0.95	Length (m)	10.490		

Node 13 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.559	Slope (1:X)	460.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	3.0	Width (m)	12.080	Inf Depth (m)	0.300
Porosity	0.95	Length (m)	12.080		

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Node 10 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.545	Slope (1:X)	460.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	3.0	Width (m)	8.940	Inf Depth (m)	0.300
Porosity	0.95	Length (m)	8.940		

Node 4 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	9.506	Slope (1:X)	460.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.300
Safety Factor	3.0	Width (m)	8.940	Inf Depth (m)	0.300
Porosity	0.95	Length (m)	8.940		

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
1 year +10% CC 15 minute summer	120.473	34.090	10 year +20% CC 480 minute summer	23.113	6.108
1 year +10% CC 15 minute winter	84.543	34.090	10 year +20% CC 480 minute winter	15.355	6.108
1 year +10% CC 30 minute summer	78.583	22.236	10 year +20% CC 600 minute summer	18.827	5.150
1 year +10% CC 30 minute winter	55.146	22.236	10 year +20% CC 600 minute winter	12.864	5.150
1 year +10% CC 60 minute summer	53.279	14.080	10 year +20% CC 720 minute summer	16.710	4.478
1 year +10% CC 60 minute winter	35.397	14.080	10 year +20% CC 720 minute winter	11.230	4.478
1 year +10% CC 120 minute summer	33.058	8.736	10 year +20% CC 960 minute summer	13.638	3.591
1 year +10% CC 120 minute winter	21.963	8.736	10 year +20% CC 960 minute winter	9.034	3.591
1 year +10% CC 180 minute summer	25.556	6.576	10 year +20% CC 1440 minute summer	9.809	2.629
1 year +10% CC 180 minute winter	16.612	6.576	10 year +20% CC 1440 minute winter	6.592	2.629
1 year +10% CC 240 minute summer	20.322	5.371	30 year +20% CC 15 minute summer	322.448	91.242
1 year +10% CC 240 minute winter	13.502	5.371	30 year +20% CC 15 minute winter	226.279	91.242
1 year +10% CC 360 minute summer	15.586	4.011	30 year +20% CC 30 minute summer	209.915	59.399
1 year +10% CC 360 minute winter	10.131	4.011	30 year +20% CC 30 minute winter	147.308	59.399
1 year +10% CC 480 minute summer	12.303	3.251	30 year +20% CC 60 minute summer	139.907	36.973
1 year +10% CC 480 minute winter	8.174	3.251	30 year +20% CC 60 minute winter	92.951	36.973
1 year +10% CC 600 minute summer	10.100	2.763	30 year +20% CC 120 minute summer	84.526	22.338
1 year +10% CC 600 minute winter	6.901	2.763	30 year +20% CC 120 minute winter	56.157	22.338
1 year +10% CC 720 minute summer	9.023	2.418	30 year +20% CC 180 minute summer	63.957	16.458
1 year +10% CC 720 minute winter	6.064	2.418	30 year +20% CC 180 minute winter	41.574	16.458
1 year +10% CC 960 minute summer	7.445	1.960	30 year +20% CC 240 minute summer	49.925	13.194
1 year +10% CC 960 minute winter	4.932	1.960	30 year +20% CC 240 minute winter	33.169	13.194
1 year +10% CC 1440 minute summer	5.443	1.459	30 year +20% CC 360 minute summer	37.466	9.641
1 year +10% CC 1440 minute winter	3.658	1.459	30 year +20% CC 360 minute winter	24.354	9.641
10 year +20% CC 15 minute summer	254.183	71.925	30 year +20% CC 480 minute summer	29.189	7.714
10 year +20% CC 15 minute winter	178.374	71.925	30 year +20% CC 480 minute winter	19.392	7.714
10 year +20% CC 30 minute summer	164.197	46.462	30 year +20% CC 600 minute summer	23.707	6.484
10 year +20% CC 30 minute winter	115.226	46.462	30 year +20% CC 600 minute winter	16.198	6.484
10 year +20% CC 60 minute summer	108.991	28.803	30 year +20% CC 720 minute summer	20.987	5.625
10 year +20% CC 60 minute winter	72.411	28.803	30 year +20% CC 720 minute winter	14.105	5.625
10 year +20% CC 120 minute summer	65.879	17.410	30 year +20% CC 960 minute summer	17.058	4.492
10 year +20% CC 120 minute winter	43.768	17.410	30 year +20% CC 960 minute winter	11.300	4.492
10 year +20% CC 180 minute summer	49.999	12.866	30 year +20% CC 1440 minute summer	12.193	3.268
10 year +20% CC 180 minute winter	32.501	12.866	30 year +20% CC 1440 minute winter	8.194	3.268
10 year +20% CC 240 minute summer	39.174	10.353	100 year +40% CC 15 minute summer	488.233	138.153
10 year +20% CC 240 minute winter	26.026	10.353	100 year +40% CC 15 minute winter	342.620	138.153
10 year +20% CC 360 minute summer	29.559	7.606	100 year +40% CC 30 minute summer	320.551	90.705
10 year +20% CC 360 minute winter	19.214	7.606	100 year +40% CC 30 minute winter	224.948	90.705

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ARUN DISTRICT COUNCIL AL/52/21/OUT

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
100 year +40% CC 60 minute summer	214.603	56.713	500 year +40% CC 30 minute summer	459.385	129.990
100 year +40% CC 60 minute winter	142.577	56.713	500 year +40% CC 30 minute winter	322.376	129.990
100 year +40% CC 120 minute summer	129.587	34.246	500 year +40% CC 60 minute summer	309.394	81.764
100 year +40% CC 120 minute winter	86.094	34.246	500 year +40% CC 60 minute winter	205.554	81.764
100 year +40% CC 180 minute summer	97.729	25.149	500 year +40% CC 120 minute summer	186.695	49.338
100 year +40% CC 180 minute winter	63.526	25.149	500 year +40% CC 120 minute winter	124.036	49.338
100 year +40% CC 240 minute summer	75.977	20.078	500 year +40% CC 180 minute summer	140.175	36.072
100 year +40% CC 240 minute winter	50.477	20.078	500 year +40% CC 180 minute winter	91.117	36.072
100 year +40% CC 360 minute summer	56.677	14.585	500 year +40% CC 240 minute summer	108.385	28.643
100 year +40% CC 360 minute winter	36.841	14.585	500 year +40% CC 240 minute winter	72.008	28.643
100 year +40% CC 480 minute summer	43.979	11.622	500 year +40% CC 360 minute summer	80.210	20.641
100 year +40% CC 480 minute winter	29.219	11.622	500 year +40% CC 360 minute winter	52.138	20.641
100 year +40% CC 600 minute summer	35.604	9.738	500 year +40% CC 480 minute summer	61.908	16.361
100 year +40% CC 600 minute winter	24.327	9.738	500 year +40% CC 480 minute winter	41.130	16.361
100 year +40% CC 720 minute summer	31.433	8.424	500 year +40% CC 600 minute summer	49.901	13.649
100 year +40% CC 720 minute winter	21.125	8.424	500 year +40% CC 600 minute winter	34.095	13.649
100 year +40% CC 960 minute summer	25.432	6.697	500 year +40% CC 720 minute summer	43.894	11.764
100 year +40% CC 960 minute winter	16.847	6.697	500 year +40% CC 720 minute winter	29.499	11.764
100 year +40% CC 1440 minute summer	18.055	4.839	500 year +40% CC 960 minute summer	35.299	9.295
100 year +40% CC 1440 minute winter	12.134	4.839	500 year +40% CC 960 minute winter	23.383	9.295
500 year +40% CC 15 minute summer	691.797	195.755	500 year +40% CC 1440 minute summer	24.832	6.655
500 year +40% CC 15 minute winter	485.471	195.755	500 year +40% CC 1440 minute winter	16.689	6.655

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Results for 1 year +10% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	53	12	9.792	0.032	0.2	0.0000	0.0000	OK
15 minute winter	1.000:50%	12	9.792	0.048	1.6	0.0962	0.0000	OK
15 minute winter	52	12	9.773	0.045	1.4	0.0000	0.0000	OK
15 minute summer	51	1	9.900	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.000:50%	11	9.872	0.012	0.3	0.0000	0.0000	OK
15 minute summer	50	1	10.050	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2.000:50%	10	9.950	0.015	0.5	0.0000	0.0000	OK
15 minute summer	SW-01	10	9.842	0.022	0.8	0.0086	0.0000	OK
60 minute winter	48	48	9.737	0.030	2.2	2.1304	0.0000	OK
15 minute summer	47	1	10.000	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	10	9.932	0.024	1.1	0.0312	0.0000	OK
15 minute summer	46	1	9.950	0.000	0.0	0.0000	0.0000	OK
15 minute winter	5.000:50%	11	9.895	0.011	0.3	0.0076	0.0000	OK
15 minute winter	SW-02	11	9.842	0.025	1.3	0.0097	0.0000	OK
30 minute winter	44	21	9.728	0.042	1.4	0.0000	0.0000	OK
15 minute winter	43	12	9.722	0.027	0.2	0.0000	0.0000	OK
15 minute winter	6.000:50%	12	9.721	0.040	0.6	0.0000	0.0000	OK
15 minute winter	42	12	9.720	0.054	1.7	0.0000	0.0000	OK
60 minute winter	41	50	9.694	0.033	0.0	0.0000	0.0000	OK
60 minute winter	9.000:50%	50	9.694	0.041	0.2	0.0000	0.0000	OK
60 minute winter	40	49	9.694	0.050	3.9	4.0430	0.0000	OK
15 minute summer	39	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	10.000:50%	10	9.919	0.032	1.4	0.0000	0.0000	OK
15 minute winter	SW-04	11	9.821	0.027	1.4	0.0102	0.0000	OK
60 minute winter	37	46	9.690	0.054	2.0	0.0000	0.0000	OK

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	53	1.000	1.000:50%	-0.2	-0.126	-0.073	0.0216	
15 minute winter	53	1.000	52	1.4	0.386	0.491	0.0259	
15 minute winter	52	1.001	48	1.4	0.610	0.493	0.0228	
15 minute summer	51	3.000	3.000:50%	0.0	0.000	0.000	0.0003	
15 minute summer	51	3.000	SW-01	0.3	0.513	0.028	0.0011	
15 minute summer	50	2.000	2.000:50%	0.0	0.000	0.000	0.0019	
15 minute summer	50	2.000	SW-01	0.5	0.455	0.050	0.0051	
15 minute summer	SW-01	2.001	48	0.8	0.737	0.103	0.0088	
60 minute winter	48	1.002	44	0.7	0.274	0.087	0.0272	
15 minute summer	47	4.000	4.000:50%	0.0	0.000	0.000	0.0030	
15 minute summer	47	4.000	SW-02	1.0	0.692	0.113	0.0062	
15 minute summer	46	5.000	5.000:50%	0.0	0.000	0.000	0.0004	
15 minute summer	46	5.000	SW-02	0.3	0.318	0.025	0.0017	
15 minute winter	SW-02	4.001	44	1.3	0.680	0.139	0.0114	
30 minute winter	44	1.003	42	1.4	0.291	0.166	0.0430	
15 minute winter	43	6.000	6.000:50%	-0.2	-0.145	-0.079	0.0153	
15 minute winter	43	6.000	42	0.4	0.295	0.155	0.0240	
15 minute winter	42	1.004	54	1.7	0.313	0.217	0.0142	
60 minute winter	41	9.000	9.000:50%	0.0	-0.071	-0.015	0.0108	
60 minute winter	41	9.000	40	0.1	0.135	0.054	0.0140	
60 minute winter	40	1.006	37	1.8	0.356	0.218	0.0187	
15 minute summer	39	10.000	10.000:50%	0.0	0.000	0.000	0.0066	
15 minute summer	39	10.000	SW-04	1.3	0.718	0.180	0.0119	
15 minute winter	SW-04	10.001	37	1.4	0.571	0.154	0.0191	
60 minute winter	37	1.007	33	2.0	0.363	0.259	0.0115	

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Results for 1 year +10% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	36	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11.000:50%	11	9.912	0.025	0.9	0.0000	0.0000	OK
15 minute summer	35	1	9.894	0.000	0.0	0.0000	0.0000	OK
15 minute summer	12.000:50%	10	9.861	0.017	0.6	0.0000	0.0000	OK
15 minute winter	SW-05	11	9.822	0.028	1.5	0.0106	0.0000	OK
60 minute winter	33	43	9.687	0.055	2.3	0.0000	0.0000	OK
60 minute winter	32	43	9.681	0.037	0.1	0.0000	0.0000	OK
60 minute winter	13.000:50%	44	9.680	0.046	0.2	0.0889	0.0000	OK
60 minute winter	31	44	9.680	0.055	2.4	0.0000	0.0000	OK
15 minute winter	30	13	9.669	0.039	0.3	0.0000	0.0000	OK
15 minute winter	14.000:50%	13	9.669	0.048	0.5	0.0000	0.0000	OK
15 minute winter	29	13	9.669	0.057	2.2	0.0000	0.0000	OK
15 minute summer	28	1	9.880	0.000	0.0	0.0000	0.0000	OK
15 minute summer	16.000:50%	11	9.824	0.015	0.6	0.0000	0.0000	OK
15 minute summer	27	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	15.000:50%	11	9.871	0.023	0.9	0.0371	0.0000	OK
15 minute winter	SW-06	11	9.765	0.028	1.5	0.0107	0.0000	OK
15 minute winter	25	12	9.663	0.060	3.6	0.0000	0.0000	OK
15 minute summer	24	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	17.000:50%	11	9.869	0.021	0.7	0.0309	0.0000	OK
15 minute winter	SW-07	11	9.755	0.018	0.6	0.0069	0.0000	OK
240 minute winter	21	172	9.652	0.054	2.8	5.8036	0.0000	OK
240 minute winter	20	172	9.638	0.023	0.0	0.0000	0.0000	OK
240 minute winter	19.000:50%	172	9.638	0.039	0.2	0.0000	0.0000	OK
240 minute winter	19	172	9.638	0.055	2.4	0.0000	0.0000	OK

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	36	11.000	11.000:50%	0.0	0.000	0.000	0.0052	
15 minute summer	36	11.000	SW-05	0.9	0.544	0.124	0.0113	
15 minute summer	35	12.000	12.000:50%	0.0	0.000	0.000	0.0009	
15 minute summer	35	12.000	SW-05	0.6	0.478	0.062	0.0026	
15 minute winter	SW-05	11.001	33	1.5	0.643	0.166	0.0204	
60 minute winter	33	1.008	31	2.3	0.397	0.284	0.0187	
60 minute winter	32	13.000	13.000:50%	-0.1	-0.066	-0.019	0.0134	
60 minute winter	32	13.000	31	0.2	-0.087	0.058	0.0176	
60 minute winter	31	1.009	29	2.4	0.415	0.297	0.0360	
15 minute winter	30	14.000	14.000:50%	-0.3	-0.185	-0.115	0.0136	
15 minute winter	30	14.000	29	0.3	0.296	0.102	0.0172	
15 minute winter	29	1.010	25	2.3	0.423	0.286	0.0276	
15 minute summer	28	16.000	16.000:50%	0.0	0.000	0.000	0.0007	
15 minute summer	28	16.000	SW-06	0.6	0.526	0.049	0.0022	
15 minute summer	27	15.000	15.000:50%	0.0	0.000	0.000	0.0044	
15 minute summer	27	15.000	SW-06	0.8	0.551	0.107	0.0103	
15 minute winter	SW-06	15.001	25	1.5	0.637	0.169	0.0213	
15 minute winter	25	1.011	21	3.4	0.870	0.389	0.0089	
15 minute summer	24	17.000	17.000:50%	0.0	0.000	0.000	0.0046	
15 minute summer	24	17.000	SW-07	0.6	0.578	0.083	0.0082	
15 minute winter	SW-07	18.000	21	0.6	0.598	0.070	0.0084	
240 minute winter	21	1.012	19	2.3	0.390	0.280	0.0409	
240 minute winter	20	19.000	19.000:50%	0.0	-0.034	-0.005	0.0157	
240 minute winter	20	19.000	19	0.2	0.133	0.065	0.0272	
240 minute winter	19	1.013	15	2.4	0.397	0.286	0.0296	

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Results for 1 year +10% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	18	1	9.910	0.000	0.0	0.0000	0.0000	OK
15 minute winter	21.000:50%	11	9.831	0.020	0.6	0.0283	0.0000	OK
15 minute summer	17	1	9.930	0.000	0.0	0.0000	0.0000	OK
15 minute winter	20.000:50%	11	9.848	0.026	1.1	0.0497	0.0000	OK
15 minute winter	SW-08	11	9.742	0.029	1.6	0.0110	0.0000	OK
240 minute winter	15	168	9.628	0.056	2.5	0.0000	0.0000	OK
240 minute winter	14	240	9.617	0.025	0.0	0.0000	0.0000	OK
240 minute winter	22.000:50%	244	9.617	0.041	0.2	0.0773	0.0000	OK
240 minute winter	13	240	9.617	0.058	2.9	6.2471	0.0000	OK
15 minute summer	12	1	9.850	0.000	0.0	0.0000	0.0000	OK
15 minute winter	23.000:50%	10	9.718	0.021	1.0	0.0252	0.0000	OK
240 minute winter	SW-09	248	9.616	0.071	0.2	0.0273	0.0000	OK
240 minute winter	10	248	9.616	0.071	2.6	4.5754	0.0000	OK
15 minute summer	9	1	9.750	0.000	0.0	0.0000	0.0000	OK
15 minute winter	27.000:50%	11	9.696	0.029	1.5	0.0645	0.0000	OK
15 minute summer	SW-13	11	9.619	0.036	1.4	0.0137	0.0000	OK
15 minute summer	7	1	9.825	0.000	0.0	0.0000	0.0000	OK
15 minute winter	28.000:50%	11	9.719	0.011	0.3	0.0083	0.0000	OK
15 minute summer	6	1	9.765	0.000	0.0	0.0000	0.0000	OK
15 minute winter	29.000:50%	10	9.693	0.015	0.8	0.0000	0.0000	OK
15 minute winter	SW-12	10	9.615	0.025	1.1	0.0097	0.0000	OK
240 minute winter	4	252	9.614	0.108	2.4	7.3973	0.0000	OK
240 minute winter	SW-14 (HYDRO)	252	9.614	0.120	1.2	0.1360	0.0000	OK
120 minute winter	SW-15	124	9.431	0.027	1.2	0.0303	0.0000	OK
120 minute winter	DITCH HEADWALL	124	9.379	0.026	1.2	0.0000	0.0000	OK

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	18	21.000	21.000:50%	0.0	0.000	0.000	0.0045	
15 minute summer	18	21.000	SW-08	0.6	0.404	0.087	0.0117	
15 minute summer	17	20.000	20.000:50%	0.0	0.000	0.000	0.0065	
15 minute summer	17	20.000	SW-08	1.0	0.579	0.141	0.0139	
15 minute winter	SW-08	20.001	15	1.6	0.619	0.178	0.0176	
240 minute winter	15	1.014	13	2.5	0.446	0.314	0.0367	
240 minute winter	14	22.000	22.000:50%	0.0	-0.017	-0.008	0.0176	
240 minute winter	14	22.000	13	0.2	0.161	0.072	0.0296	
240 minute winter	13	1.015	10	2.4	0.410	0.296	0.0479	
15 minute summer	12	23.000	23.000:50%	0.0	0.000	0.000	0.0029	
15 minute summer	12	23.000	SW-09	0.9	0.527	0.087	0.0125	
240 minute winter	SW-09	23.001	10	0.2	0.175	0.073	0.0309	
240 minute winter	10	1.016	64	2.0	0.337	0.252	0.0653	
15 minute summer	9	27.000	27.000:50%	0.0	0.000	0.000	0.0045	
15 minute summer	9	27.000	SW-13	1.4	0.646	0.176	0.0104	
15 minute summer	SW-13	27.001	4	1.4	0.795	0.240	0.0156	
15 minute summer	7	28.000	28.000:50%	0.0	0.000	0.000	0.0009	
15 minute summer	7	28.000	SW-12	0.3	0.316	0.027	0.0035	
15 minute summer	6	29.000	29.000:50%	0.0	0.000	0.000	0.0005	
15 minute summer	6	29.000	SW-12	0.7	0.726	0.045	0.0015	
15 minute winter	SW-12	28.001	4	1.1	0.809	0.131	0.0079	
240 minute winter	4	1.020	SW-14 (HYDRO)	1.2	0.146	0.053	0.1203	
240 minute winter	SW-14 (HYDRO)	Hydro-Brake®	SW-15	1.2				
120 minute winter	SW-15	1.022	DITCH HEADWALL	1.2	0.463	0.028	0.0200	31.5

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Results for 1 year +10% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	54	12	9.718	0.057	3.4	0.0000	0.0000	OK
15 minute winter	SW-03	11	9.785	0.031	1.9	0.0121	0.0000	OK
15 minute winter	56	11	9.990	0.020	0.7	0.0000	0.0000	OK
15 minute winter	7.001:50%	10	9.893	0.031	1.5	0.0000	0.0000	OK
15 minute winter	57	11	10.005	0.005	0.0	0.0000	0.0000	OK
15 minute winter	7.000:50%	11	10.005	0.020	0.7	0.0000	0.0000	OK
15 minute summer	58	1	9.890	0.000	0.0	0.0000	0.0000	OK
15 minute winter	8.000:50%	10	9.836	0.014	0.5	0.0000	0.0000	OK
240 minute winter	59	256	9.615	0.100	2.2	0.0000	0.0000	OK
15 minute summer	SW-11	11	9.617	0.013	0.3	0.0052	0.0000	OK
240 minute winter	26.001:50%	256	9.614	0.055	0.2	0.0000	0.0000	OK
15 minute summer	61	1	9.800	0.000	0.0	0.0000	0.0000	OK
15 minute winter	26.000:50%	11	9.714	0.012	0.3	0.0099	0.0000	OK
240 minute winter	62	252	9.615	0.092	2.2	0.0000	0.0000	OK
240 minute winter	63	256	9.615	0.063	0.1	0.0000	0.0000	OK
240 minute winter	25.000:50%	248	9.614	0.077	0.2	0.0000	0.0000	OK
240 minute winter	64	252	9.615	0.085	2.3	0.0000	0.0000	OK
15 minute winter	SW-10	11	9.635	0.020	0.7	0.0076	0.0000	OK
240 minute winter	24.002:50%	244	9.614	0.042	0.2	0.0845	0.0000	OK
15 minute summer	66	1	9.800	0.000	0.0	0.0000	0.0000	OK
15 minute winter	24.001:50%	10	9.728	0.020	0.8	0.0261	0.0000	OK

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	54	1.005	40	3.4	0.853	0.419	0.0352	
15 minute winter	SW-03	7.002	54	1.9	0.657	0.184	0.0109	
15 minute winter	56	7.001	7.001:50%	0.7	0.444	0.091	0.0108	
15 minute winter	56	7.001	SW-03	1.4	0.698	0.188	0.0141	
15 minute winter	57	7.000	7.000:50%	0.0	-0.074	-0.004	0.0005	
15 minute winter	57	7.000	56	0.7	0.625	0.082	0.0009	
15 minute summer	58	8.000	8.000:50%	0.0	0.000	0.000	0.0005	
15 minute summer	58	8.000	SW-03	0.4	0.344	0.034	0.0023	
240 minute winter	59	1.019	4	2.0	0.327	0.248	0.0542	
15 minute summer	SW-11	26.001	26.001:50%	0.3	0.495	0.037	0.0016	
15 minute summer	SW-11	26.001	59	0.3	0.187	0.036	0.0044	
15 minute summer	61	26.000	26.000:50%	0.0	0.000	0.000	0.0012	
15 minute summer	61	26.000	SW-11	0.3	0.507	0.032	0.0025	
240 minute winter	62	1.018	59	2.2	0.319	0.262	0.0433	
240 minute winter	63	25.000	25.000:50%	-0.1	-0.036	-0.021	0.0397	
240 minute winter	63	25.000	62	0.2	0.156	0.070	0.0477	
240 minute winter	64	1.017	62	2.1	0.318	0.251	0.0338	
15 minute winter	SW-10	24.002	24.002:50%	0.8	0.664	0.084	0.0022	
15 minute winter	SW-10	24.002	64	0.8	0.547	0.094	0.0035	
15 minute summer	66	24.001	24.001:50%	0.0	0.000	0.000	0.0025	
15 minute summer	66	24.001	SW-10	0.7	0.659	0.082	0.0050	

ARUN DISTRICT COUNCIL AL/52/21/OUT

Results for 10 year +20% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	53	12	9.819	0.059	0.3	0.0000	0.0000	OK
15 minute winter	1.000:50%	12	9.819	0.075	3.4	0.2296	0.0000	OK
15 minute winter	52	12	9.793	0.065	2.9	0.0000	0.0000	OK
15 minute summer	51	1	9.900	0.000	0.0	0.0000	0.0000	OK
15 minute summer	3.000:50%	11	9.877	0.017	0.7	0.0000	0.0000	OK
15 minute summer	50	1	10.050	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2.000:50%	10	9.957	0.022	1.0	0.0000	0.0000	OK
15 minute summer	SW-01	10	9.853	0.033	1.7	0.0128	0.0000	OK
60 minute winter	48	46	9.755	0.048	4.6	4.4596	0.0000	OK
15 minute summer	47	1	10.000	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	11	9.944	0.036	2.3	0.0708	0.0000	OK
15 minute summer	46	1	9.950	0.000	0.0	0.0000	0.0000	OK
15 minute winter	5.000:50%	10	9.900	0.016	0.7	0.0161	0.0000	OK
15 minute winter	SW-02	11	9.856	0.039	2.9	0.0148	0.0000	OK
30 minute winter	44	22	9.748	0.062	2.5	0.0000	0.0000	OK
15 minute winter	43	12	9.745	0.050	0.4	0.0000	0.0000	OK
15 minute winter	6.000:50%	12	9.744	0.064	1.2	0.0000	0.0000	OK
15 minute winter	42	12	9.743	0.077	2.9	0.0000	0.0000	OK
60 minute winter	41	47	9.729	0.068	0.1	0.0000	0.0000	OK
60 minute winter	9.000:50%	47	9.729	0.076	0.4	0.0000	0.0000	OK
60 minute winter	40	46	9.730	0.086	7.4	7.7886	0.0000	OK
15 minute summer	39	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	10.000:50%	10	9.935	0.048	2.9	0.0000	0.0000	OK
15 minute winter	SW-04	10	9.834	0.040	2.9	0.0154	0.0000	OK
60 minute winter	37	44	9.725	0.089	5.0	0.0000	0.0000	OK

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	53	1.000	1.000:50%	-0.3	-0.141	-0.109	0.0403	
15 minute winter	53	1.000	52	2.9	0.492	1.028	0.0426	
15 minute winter	52	1.001	48	2.9	0.758	1.038	0.0394	
15 minute summer	51	3.000	3.000:50%	0.0	0.000	0.000	0.0006	
15 minute summer	51	3.000	SW-01	0.7	0.460	0.064	0.0020	
15 minute summer	50	2.000	2.000:50%	0.0	0.000	0.000	0.0032	
15 minute summer	50	2.000	SW-01	1.0	0.553	0.105	0.0088	
15 minute summer	SW-01	2.001	48	1.7	0.891	0.224	0.0154	
60 minute winter	48	1.002	44	1.8	0.339	0.220	0.0551	
15 minute summer	47	4.000	4.000:50%	0.0	0.000	0.000	0.0053	
15 minute summer	47	4.000	SW-02	2.1	0.836	0.242	0.0111	
15 minute summer	46	5.000	5.000:50%	0.0	0.000	0.000	0.0007	
15 minute summer	46	5.000	SW-02	0.6	0.379	0.051	0.0030	
15 minute winter	SW-02	4.001	44	2.9	0.773	0.297	0.0197	
30 minute winter	44	1.003	42	2.5	0.333	0.303	0.0723	
15 minute winter	43	6.000	6.000:50%	-0.4	-0.181	-0.130	0.0302	
15 minute winter	43	6.000	42	1.0	0.293	0.354	0.0387	
15 minute winter	42	1.004	54	2.9	0.336	0.366	0.0224	
60 minute winter	41	9.000	9.000:50%	-0.1	-0.063	-0.032	0.0246	
60 minute winter	41	9.000	40	0.3	0.181	0.104	0.0275	
60 minute winter	40	1.006	37	4.6	0.441	0.543	0.0371	
15 minute summer	39	10.000	10.000:50%	0.0	0.000	0.000	0.0117	
15 minute summer	39	10.000	SW-04	2.8	0.863	0.384	0.0210	
15 minute winter	SW-04	10.001	37	2.9	0.704	0.324	0.0320	
60 minute winter	37	1.007	33	5.0	0.462	0.641	0.0222	

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Results for 10 year +20% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	36	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11.000:50%	10	9.925	0.038	2.0	0.0000	0.0000	OK
15 minute summer	35	1	9.894	0.000	0.0	0.0000	0.0000	OK
15 minute winter	12.000:50%	10	9.871	0.027	1.3	0.0000	0.0000	OK
15 minute winter	SW-05	10	9.836	0.042	3.2	0.0161	0.0000	OK
60 minute winter	33	44	9.722	0.090	5.6	0.0000	0.0000	OK
60 minute winter	32	42	9.715	0.071	0.1	0.0000	0.0000	OK
60 minute winter	13.000:50%	42	9.715	0.080	0.5	0.2797	0.0000	OK
60 minute winter	31	43	9.715	0.090	5.9	0.0000	0.0000	OK
60 minute winter	30	43	9.701	0.071	0.1	0.0000	0.0000	OK
60 minute winter	14.000:50%	40	9.700	0.079	0.4	0.0000	0.0000	OK
60 minute winter	29	41	9.700	0.088	6.1	0.0000	0.0000	OK
15 minute summer	28	1	9.880	0.000	0.0	0.0000	0.0000	OK
15 minute winter	16.000:50%	10	9.830	0.022	1.3	0.0000	0.0000	OK
15 minute summer	27	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	15.000:50%	11	9.882	0.034	2.0	0.0828	0.0000	OK
15 minute winter	SW-06	11	9.778	0.041	3.1	0.0158	0.0000	OK
240 minute winter	25	240	9.694	0.091	4.7	0.0000	0.0000	OK
15 minute summer	24	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	17.000:50%	11	9.879	0.030	1.4	0.0676	0.0000	OK
15 minute summer	SW-07	11	9.763	0.026	1.3	0.0100	0.0000	OK
240 minute winter	21	240	9.694	0.096	5.6	11.8028	0.0000	OK
240 minute winter	20	236	9.694	0.079	0.0	0.0000	0.0000	OK
240 minute winter	19.000:50%	236	9.694	0.095	0.4	0.0000	0.0000	OK
240 minute winter	19	236	9.694	0.111	4.8	0.0000	0.0000	OK

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	36	11.000	11.000:50%	0.0	0.000	0.000	0.0093	
15 minute summer	36	11.000	SW-05	1.9	0.662	0.270	0.0201	
15 minute summer	35	12.000	12.000:50%	0.0	0.000	0.000	0.0016	
15 minute summer	35	12.000	SW-05	1.2	0.536	0.124	0.0046	
15 minute winter	SW-05	11.001	33	3.2	0.721	0.350	0.0334	
60 minute winter	33	1.008	31	5.7	0.514	0.690	0.0352	
60 minute winter	32	13.000	13.000:50%	-0.1	-0.070	-0.032	0.0281	
60 minute winter	32	13.000	31	0.2	0.265	0.084	0.0313	
60 minute winter	31	1.009	29	5.9	0.550	0.727	0.0660	
60 minute winter	30	14.000	14.000:50%	-0.1	-0.085	-0.033	0.0258	
60 minute winter	30	14.000	29	0.3	0.256	0.123	0.0288	
60 minute winter	29	1.010	25	6.1	0.614	0.768	0.0458	
15 minute summer	28	16.000	16.000:50%	0.0	0.000	0.000	0.0011	
15 minute summer	28	16.000	SW-06	1.2	0.619	0.098	0.0037	
15 minute summer	27	15.000	15.000:50%	0.0	0.000	0.000	0.0077	
15 minute summer	27	15.000	SW-06	1.8	0.692	0.233	0.0178	
15 minute winter	SW-06	15.001	25	3.1	0.696	0.353	0.0330	
240 minute winter	25	1.011	21	4.7	0.573	0.540	0.0236	
15 minute summer	24	17.000	17.000:50%	0.0	0.000	0.000	0.0082	
15 minute summer	24	17.000	SW-07	1.3	0.722	0.184	0.0147	
15 minute summer	SW-07	18.000	21	1.3	0.741	0.146	0.0148	
240 minute winter	21	1.012	19	4.6	0.451	0.568	0.0914	
240 minute winter	20	19.000	19.000:50%	0.0	-0.031	-0.009	0.0535	
240 minute winter	20	19.000	19	0.4	0.178	0.129	0.0580	
240 minute winter	19	1.013	15	4.7	0.460	0.576	0.0728	

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Results for 10 year +20% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	18	1	9.910	0.000	0.0	0.0000	0.0000	OK
15 minute winter	21.000:50%	11	9.840	0.029	1.3	0.0606	0.0000	OK
15 minute summer	17	1	9.930	0.000	0.0	0.0000	0.0000	OK
15 minute winter	20.000:50%	11	9.861	0.039	2.3	0.1156	0.0000	OK
15 minute winter	SW-08	11	9.757	0.044	3.4	0.0169	0.0000	OK
240 minute winter	15	236	9.694	0.122	5.2	0.0000	0.0000	OK
240 minute winter	14	236	9.693	0.101	0.0	0.0000	0.0000	SURCHARGED
240 minute winter	22.000:50%	240	9.693	0.118	0.4	0.6288	0.0000	SURCHARGED
240 minute winter	13	236	9.694	0.135	6.1	16.7965	0.0000	OK
15 minute summer	12	1	9.850	0.000	0.0	0.0000	0.0000	OK
15 minute winter	23.000:50%	11	9.727	0.029	2.0	0.0516	0.0000	OK
240 minute winter	SW-09	236	9.693	0.148	0.4	0.0571	0.0000	SURCHARGED
240 minute winter	10	236	9.693	0.148	4.1	10.3993	0.0000	OK
15 minute summer	9	1	9.750	0.000	0.0	0.0000	0.0000	OK
15 minute winter	27.000:50%	11	9.712	0.046	3.2	0.1556	0.0000	OK
240 minute winter	SW-13	236	9.693	0.110	0.6	0.0423	0.0000	SURCHARGED
15 minute summer	7	1	9.825	0.000	0.0	0.0000	0.0000	OK
15 minute winter	28.000:50%	10	9.724	0.016	0.7	0.0175	0.0000	OK
15 minute summer	6	1	9.765	0.000	0.0	0.0000	0.0000	OK
15 minute winter	29.000:50%	10	9.699	0.022	1.6	0.0000	0.0000	OK
240 minute winter	SW-12	228	9.693	0.103	0.4	0.0396	0.0000	SURCHARGED
240 minute winter	4	236	9.693	0.187	4.1	13.2916	0.0000	OK
240 minute winter	SW-14 (HYDRO)	236	9.693	0.199	1.3	0.2247	0.0000	OK
15 minute summer	SW-15	77	9.431	0.027	1.2	0.0303	0.0000	OK
15 minute summer	DITCH HEADWALL	77	9.379	0.026	1.2	0.0000	0.0000	OK

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	18	21.000	21.000:50%	0.0	0.000	0.000	0.0073	
15 minute summer	18	21.000	SW-08	1.2	0.471	0.174	0.0201	
15 minute summer	17	20.000	20.000:50%	0.0	0.000	0.000	0.0114	
15 minute summer	17	20.000	SW-08	2.1	0.699	0.300	0.0245	
15 minute winter	SW-08	20.001	15	3.4	0.798	0.376	0.0274	
240 minute winter	15	1.014	13	5.2	0.533	0.642	0.0978	
240 minute winter	14	22.000	22.000:50%	0.0	-0.025	0.011	0.0597	
240 minute winter	14	22.000	13	0.3	0.203	0.107	0.0597	
240 minute winter	13	1.015	10	3.5	0.438	0.433	0.1133	
15 minute summer	12	23.000	23.000:50%	0.0	0.000	0.000	0.0048	
15 minute summer	12	23.000	SW-09	1.8	0.585	0.177	0.0183	
240 minute winter	SW-09	23.001	10	0.4	0.236	0.137	0.0450	
240 minute winter	10	1.016	64	2.1	0.310	0.266	0.1244	
15 minute summer	9	27.000	27.000:50%	0.0	0.000	0.000	0.0080	
15 minute summer	9	27.000	SW-13	2.9	0.773	0.360	0.0177	
240 minute winter	SW-13	27.001	4	0.6	0.427	0.101	0.0626	
15 minute summer	7	28.000	28.000:50%	0.0	0.000	0.000	0.0014	
15 minute summer	7	28.000	SW-12	0.6	0.378	0.054	0.0059	
15 minute summer	6	29.000	29.000:50%	0.0	0.000	0.000	0.0009	
15 minute summer	6	29.000	SW-12	1.6	0.842	0.103	0.0026	
240 minute winter	SW-12	28.001	4	0.5	0.288	0.057	0.0374	
240 minute winter	4	1.020	SW-14 (HYDRO)	1.3	0.145	0.055	0.2150	
240 minute winter	SW-14 (HYDRO)	Hydro-Brake®	SW-15	1.2				
15 minute summer	SW-15	1.022	DITCH HEADWALL	1.2	0.463	0.028	0.0200	17.4

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Results for 10 year +20% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	54	12	9.741	0.080	6.9	0.0000	0.0000	OK
15 minute winter	SW-03	11	9.806	0.052	4.0	0.0201	0.0000	OK
15 minute winter	56	11	10.001	0.031	1.6	0.0000	0.0000	OK
15 minute winter	7.001:50%	11	9.909	0.047	3.1	0.0000	0.0000	OK
15 minute winter	57	10	10.014	0.014	0.1	0.0000	0.0000	OK
15 minute winter	7.000:50%	10	10.014	0.029	1.6	0.0000	0.0000	OK
15 minute summer	58	1	9.890	0.000	0.0	0.0000	0.0000	OK
15 minute winter	8.000:50%	10	9.842	0.020	1.0	0.0000	0.0000	OK
240 minute winter	59	236	9.693	0.178	2.7	0.0000	0.0000	SURCHARGED
240 minute winter	SW-11	236	9.693	0.089	0.1	0.0343	0.0000	OK
240 minute winter	26.001:50%	236	9.692	0.133	0.3	0.0000	0.0000	SURCHARGED
15 minute summer	61	1	9.800	0.000	0.0	0.0000	0.0000	OK
15 minute winter	26.000:50%	10	9.720	0.018	0.7	0.0206	0.0000	OK
240 minute winter	62	236	9.693	0.170	2.7	0.0000	0.0000	SURCHARGED
240 minute winter	63	240	9.693	0.141	0.3	0.0000	0.0000	SURCHARGED
240 minute winter	25.000:50%	244	9.693	0.155	0.5	0.0000	0.0000	SURCHARGED
240 minute winter	64	236	9.693	0.163	2.9	0.0000	0.0000	SURCHARGED
240 minute winter	SW-10	236	9.693	0.078	0.9	0.0301	0.0000	OK
240 minute winter	24.002:50%	236	9.693	0.120	0.6	0.6932	0.0000	SURCHARGED
15 minute summer	66	1	9.800	0.000	0.0	0.0000	0.0000	OK
15 minute winter	24.001:50%	11	9.737	0.030	1.7	0.0580	0.0000	OK

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	54	1.005	40	6.8	1.029	0.840	0.0649	
15 minute winter	SW-03	7.002	54	4.1	0.773	0.396	0.0177	
15 minute winter	56	7.001	7.001:50%	1.5	0.552	0.203	0.0194	
15 minute winter	56	7.001	SW-03	3.1	0.800	0.406	0.0266	
15 minute winter	57	7.000	7.000:50%	0.1	0.155	0.015	0.0010	
15 minute winter	57	7.000	56	1.6	0.791	0.184	0.0015	
15 minute summer	58	8.000	8.000:50%	0.0	0.000	0.000	0.0009	
15 minute summer	58	8.000	SW-03	0.9	0.452	0.076	0.0045	
240 minute winter	59	1.019	4	2.6	0.321	0.320	0.0733	
240 minute winter	SW-11	26.001	26.001:50%	0.2	0.354	0.031	0.0199	
240 minute winter	SW-11	26.001	59	0.4	0.096	0.056	0.0205	
15 minute summer	61	26.000	26.000:50%	0.0	0.000	0.000	0.0019	
15 minute summer	61	26.000	SW-11	0.6	0.621	0.065	0.0041	
240 minute winter	62	1.018	59	2.7	0.327	0.325	0.0642	
240 minute winter	63	25.000	25.000:50%	-0.3	-0.052	-0.095	0.0534	
240 minute winter	63	25.000	62	0.5	0.240	0.196	0.0534	
240 minute winter	64	1.017	62	2.5	0.319	0.302	0.0551	
240 minute winter	SW-10	24.002	24.002:50%	-0.7	0.525	-0.080	0.0140	
240 minute winter	SW-10	24.002	64	0.8	0.262	0.089	0.0152	
15 minute summer	66	24.001	24.001:50%	0.0	0.000	0.000	0.0044	
15 minute summer	66	24.001	SW-10	1.5	0.823	0.180	0.0088	

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Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	53	12	9.831	0.071	0.3	0.0000	0.0000	OK
15 minute winter	1.000:50%	12	9.831	0.087	4.3	0.3149	0.0000	OK
15 minute winter	52	12	9.802	0.074	3.5	0.0000	0.0000	OK
15 minute summer	51	1	9.900	0.000	0.0	0.0000	0.0000	OK
15 minute winter	3.000:50%	10	9.880	0.020	0.9	0.0000	0.0000	OK
15 minute summer	50	1	10.050	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2.000:50%	10	9.960	0.025	1.3	0.0000	0.0000	OK
15 minute winter	SW-01	10	9.858	0.038	2.2	0.0146	0.0000	OK
60 minute winter	48	46	9.767	0.060	5.9	5.9439	0.0000	OK
15 minute summer	47	1	10.000	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	11	9.949	0.041	2.9	0.0907	0.0000	OK
15 minute summer	46	1	9.950	0.000	0.0	0.0000	0.0000	OK
15 minute winter	5.000:50%	11	9.901	0.018	0.8	0.0194	0.0000	OK
15 minute winter	SW-02	11	9.861	0.044	3.6	0.0170	0.0000	OK
60 minute winter	44	43	9.761	0.075	3.1	0.0000	0.0000	OK
60 minute winter	43	42	9.756	0.061	0.1	0.0000	0.0000	OK
60 minute winter	6.000:50%	43	9.755	0.075	0.8	0.0000	0.0000	OK
60 minute winter	42	43	9.756	0.090	3.4	0.0000	0.0000	OK
60 minute winter	41	46	9.747	0.086	0.1	0.0000	0.0000	OK
60 minute winter	9.000:50%	46	9.747	0.094	0.6	0.0000	0.0000	OK
60 minute winter	40	46	9.747	0.103	9.3	9.6543	0.0000	OK
15 minute summer	39	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	10.000:50%	10	9.942	0.055	3.7	0.0000	0.0000	OK
15 minute winter	SW-04	10	9.841	0.047	3.6	0.0179	0.0000	OK
60 minute winter	37	45	9.743	0.107	6.5	0.0000	0.0000	OK

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	53	1.000	1.000:50%	-0.3	-0.144	-0.111	0.0483	
15 minute winter	53	1.000	52	3.5	0.527	1.277	0.0492	
15 minute winter	52	1.001	48	3.5	0.799	1.283	0.0484	
15 minute summer	51	3.000	3.000:50%	0.0	0.000	0.000	0.0007	
15 minute summer	51	3.000	SW-01	0.9	0.512	0.081	0.0023	
15 minute summer	50	2.000	2.000:50%	0.0	0.000	0.000	0.0037	
15 minute summer	50	2.000	SW-01	1.2	0.595	0.130	0.0103	
15 minute winter	SW-01	2.001	48	2.2	0.944	0.291	0.0205	
60 minute winter	48	1.002	44	2.4	0.354	0.294	0.0735	
15 minute summer	47	4.000	4.000:50%	0.0	0.000	0.000	0.0063	
15 minute summer	47	4.000	SW-02	2.7	0.869	0.303	0.0133	
15 minute summer	46	5.000	5.000:50%	0.0	0.000	0.000	0.0008	
15 minute summer	46	5.000	SW-02	0.8	0.405	0.067	0.0037	
15 minute winter	SW-02	4.001	44	3.6	0.803	0.368	0.0233	
60 minute winter	44	1.003	42	3.1	0.314	0.372	0.0899	
60 minute winter	43	6.000	6.000:50%	-0.1	-0.063	-0.034	0.0372	
60 minute winter	43	6.000	42	0.7	0.261	0.251	0.0452	
60 minute winter	42	1.004	54	3.4	0.306	0.431	0.0270	
60 minute winter	41	9.000	9.000:50%	-0.1	-0.063	-0.038	0.0301	
60 minute winter	41	9.000	40	0.4	0.181	0.150	0.0314	
60 minute winter	40	1.006	37	5.9	0.461	0.706	0.0459	
15 minute summer	39	10.000	10.000:50%	0.0	0.000	0.000	0.0142	
15 minute summer	39	10.000	SW-04	3.5	0.907	0.491	0.0255	
15 minute winter	SW-04	10.001	37	3.6	0.763	0.411	0.0378	
60 minute winter	37	1.007	33	6.5	0.486	0.835	0.0271	

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Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	36	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11.000:50%	10	9.930	0.043	2.5	0.0000	0.0000	OK
15 minute summer	35	1	9.894	0.000	0.0	0.0000	0.0000	OK
15 minute winter	12.000:50%	10	9.876	0.032	1.7	0.0000	0.0000	OK
15 minute winter	SW-05	10	9.843	0.049	4.1	0.0190	0.0000	OK
60 minute winter	33	45	9.739	0.107	7.4	0.0000	0.0000	OK
60 minute winter	32	44	9.732	0.088	0.1	0.0000	0.0000	OK
60 minute winter	13.000:50%	44	9.731	0.097	0.6	0.4114	0.0000	OK
60 minute winter	31	45	9.732	0.107	7.7	0.0000	0.0000	OK
360 minute winter	30	344	9.731	0.101	0.0	0.0000	0.0000	SURCHARGED
360 minute winter	14.000:50%	344	9.731	0.110	0.2	0.0000	0.0000	SURCHARGED
360 minute winter	29	344	9.731	0.119	4.5	0.0000	0.0000	OK
15 minute summer	28	1	9.880	0.000	0.0	0.0000	0.0000	OK
15 minute winter	16.000:50%	10	9.834	0.026	1.7	0.0000	0.0000	OK
15 minute summer	27	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	15.000:50%	11	9.887	0.038	2.5	0.1081	0.0000	OK
15 minute winter	SW-06	11	9.784	0.047	4.0	0.0182	0.0000	OK
360 minute winter	25	344	9.731	0.128	5.0	0.0000	0.0000	OK
15 minute summer	24	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	17.000:50%	11	9.883	0.035	1.8	0.0897	0.0000	OK
15 minute winter	SW-07	11	9.767	0.030	1.7	0.0114	0.0000	OK
360 minute winter	21	344	9.731	0.133	5.9	17.0989	0.0000	OK
360 minute winter	20	352	9.731	0.116	0.0	0.0000	0.0000	SURCHARGED
360 minute winter	19.000:50%	352	9.731	0.132	0.3	0.0000	0.0000	SURCHARGED
360 minute winter	19	344	9.731	0.148	4.7	0.0000	0.0000	OK

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	36	11.000	11.000:50%	0.0	0.000	0.000	0.0112	
15 minute summer	36	11.000	SW-05	2.4	0.690	0.343	0.0245	
15 minute summer	35	12.000	12.000:50%	0.0	0.000	0.000	0.0020	
15 minute summer	35	12.000	SW-05	1.6	0.548	0.163	0.0057	
15 minute winter	SW-05	11.001	33	4.1	0.795	0.450	0.0393	
60 minute winter	33	1.008	31	7.4	0.554	0.904	0.0429	
60 minute winter	32	13.000	13.000:50%	-0.1	-0.080	-0.035	0.0334	
60 minute winter	32	13.000	31	0.4	0.244	0.130	0.0345	
60 minute winter	31	1.009	29	7.7	0.596	0.951	0.0804	
360 minute winter	30	14.000	14.000:50%	0.0	-0.020	0.013	0.0324	
360 minute winter	30	14.000	29	0.2	0.037	0.062	0.0324	
360 minute winter	29	1.010	25	4.5	0.460	0.560	0.0674	
15 minute summer	28	16.000	16.000:50%	0.0	0.000	0.000	0.0013	
15 minute summer	28	16.000	SW-06	1.6	0.644	0.129	0.0044	
15 minute summer	27	15.000	15.000:50%	0.0	0.000	0.000	0.0092	
15 minute summer	27	15.000	SW-06	2.3	0.732	0.295	0.0213	
15 minute winter	SW-06	15.001	25	4.0	0.687	0.454	0.0365	
360 minute winter	25	1.011	21	4.9	0.518	0.571	0.0333	
15 minute summer	24	17.000	17.000:50%	0.0	0.000	0.000	0.0094	
15 minute summer	24	17.000	SW-07	1.6	0.763	0.224	0.0170	
15 minute winter	SW-07	18.000	21	1.7	0.760	0.189	0.0200	
360 minute winter	21	1.012	19	4.4	0.432	0.548	0.1205	
360 minute winter	20	19.000	19.000:50%	0.0	-0.016	0.011	0.0586	
360 minute winter	20	19.000	19	0.3	0.164	0.097	0.0586	
360 minute winter	19	1.013	15	4.6	0.436	0.563	0.0875	

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Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	18	1	9.910	0.000	0.0	0.0000	0.0000	OK
15 minute winter	21.000:50%	11	9.845	0.033	1.7	0.0815	0.0000	OK
15 minute summer	17	1	9.930	0.000	0.0	0.0000	0.0000	OK
15 minute winter	20.000:50%	11	9.866	0.044	2.9	0.1485	0.0000	OK
15 minute winter	SW-08	11	9.764	0.051	4.3	0.0197	0.0000	OK
360 minute winter	15	344	9.731	0.159	5.2	0.0000	0.0000	SURCHARGED
360 minute winter	14	344	9.731	0.139	0.0	0.0000	0.0000	SURCHARGED
360 minute winter	22.000:50%	344	9.730	0.155	0.3	1.0907	0.0000	SURCHARGED
360 minute winter	13	344	9.731	0.172	6.2	21.9562	0.0000	SURCHARGED
15 minute summer	12	1	9.850	0.000	0.0	0.0000	0.0000	OK
15 minute winter	23.000:50%	10	9.731	0.033	2.6	0.0669	0.0000	OK
360 minute winter	SW-09	344	9.731	0.186	0.4	0.0715	0.0000	SURCHARGED
360 minute winter	10	344	9.731	0.186	3.7	13.2140	0.0000	SURCHARGED
15 minute summer	9	1	9.750	0.000	0.0	0.0000	0.0000	OK
360 minute winter	27.000:50%	344	9.730	0.063	0.6	0.2992	0.0000	OK
360 minute winter	SW-13	344	9.730	0.147	0.6	0.0567	0.0000	SURCHARGED
15 minute summer	7	1	9.825	0.000	0.0	0.0000	0.0000	OK
360 minute winter	28.000:50%	352	9.730	0.022	0.1	0.0322	0.0000	OK
15 minute summer	6	1	9.765	0.000	0.0	0.0000	0.0000	OK
360 minute winter	29.000:50%	352	9.730	0.052	1.2	0.0000	0.0000	OK
360 minute winter	SW-12	352	9.730	0.140	0.9	0.0540	0.0000	SURCHARGED
360 minute winter	4	344	9.730	0.224	3.9	16.1275	0.0000	OK
360 minute winter	SW-14 (HYDRO)	344	9.730	0.236	1.3	0.2671	0.0000	SURCHARGED
15 minute summer	SW-15	35	9.431	0.027	1.2	0.0303	0.0000	OK
15 minute summer	DITCH HEADWALL	35	9.379	0.026	1.2	0.0000	0.0000	OK

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	18	21.000	21.000:50%	0.0	0.000	0.000	0.0087	
15 minute summer	18	21.000	SW-08	1.5	0.501	0.223	0.0243	
15 minute summer	17	20.000	20.000:50%	0.0	0.000	0.000	0.0135	
15 minute summer	17	20.000	SW-08	2.6	0.728	0.374	0.0294	
15 minute winter	SW-08	20.001	15	4.3	0.867	0.477	0.0320	
360 minute winter	15	1.014	13	5.2	0.500	0.645	0.1077	
360 minute winter	14	22.000	22.000:50%	0.0	-0.018	-0.012	0.0597	
360 minute winter	14	22.000	13	0.2	0.180	0.086	0.0597	
360 minute winter	13	1.015	10	3.1	0.417	0.382	0.1165	
15 minute summer	12	23.000	23.000:50%	0.0	0.000	0.000	0.0058	
15 minute summer	12	23.000	SW-09	2.3	0.596	0.226	0.0209	
360 minute winter	SW-09	23.001	10	0.4	0.217	0.130	0.0450	
360 minute winter	10	1.016	64	2.0	0.315	0.243	0.1245	
15 minute summer	9	27.000	27.000:50%	0.0	0.000	0.000	0.0096	
15 minute summer	9	27.000	SW-13	3.6	0.812	0.452	0.0212	
360 minute winter	SW-13	27.001	4	0.5	0.422	0.090	0.0626	
15 minute summer	7	28.000	28.000:50%	0.0	0.000	0.000	0.0017	
15 minute summer	7	28.000	SW-12	0.8	0.417	0.072	0.0070	
15 minute summer	6	29.000	29.000:50%	0.0	0.000	0.000	0.0010	
15 minute summer	6	29.000	SW-12	2.0	0.892	0.129	0.0031	
360 minute winter	SW-12	28.001	4	0.7	0.175	0.092	0.0374	
360 minute winter	4	1.020	SW-14 (HYDRO)	1.3	0.144	0.056	0.2362	
360 minute winter	SW-14 (HYDRO)	Hydro-Brake®	SW-15	1.2				
15 minute summer	SW-15	1.022	DITCH HEADWALL	1.2	0.463	0.028	0.0200	17.5

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Results for 30 year +20% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	54	43	9.754	0.093	5.6	0.0000	0.0000	OK
15 minute winter	SW-03	11	9.816	0.062	5.2	0.0240	0.0000	OK
15 minute winter	56	11	10.005	0.035	2.0	0.0000	0.0000	OK
15 minute winter	7.001:50%	10	9.917	0.055	4.0	0.0000	0.0000	OK
15 minute winter	57	10	10.018	0.018	0.1	0.0000	0.0000	OK
15 minute winter	7.000:50%	10	10.018	0.033	2.0	0.0000	0.0000	OK
15 minute summer	58	1	9.890	0.000	0.0	0.0000	0.0000	OK
15 minute winter	8.000:50%	11	9.844	0.022	1.2	0.0000	0.0000	OK
360 minute winter	59	344	9.730	0.215	2.5	0.0000	0.0000	SURCHARGED
360 minute winter	SW-11	344	9.730	0.126	0.1	0.0486	0.0000	SURCHARGED
360 minute winter	26.001:50%	344	9.730	0.170	0.1	0.0000	0.0000	SURCHARGED
15 minute summer	61	1	9.800	0.000	0.0	0.0000	0.0000	OK
360 minute winter	26.000:50%	344	9.730	0.028	0.1	0.0507	0.0000	OK
360 minute winter	62	344	9.730	0.207	2.1	0.0000	0.0000	SURCHARGED
360 minute winter	63	352	9.731	0.179	0.2	0.0000	0.0000	SURCHARGED
360 minute winter	25.000:50%	344	9.730	0.192	0.4	0.0000	0.0000	SURCHARGED
360 minute winter	64	344	9.731	0.201	2.0	0.0000	0.0000	SURCHARGED
360 minute winter	SW-10	344	9.731	0.116	0.3	0.0445	0.0000	SURCHARGED
360 minute winter	24.002:50%	344	9.730	0.157	0.8	1.1924	0.0000	SURCHARGED
15 minute summer	66	1	9.800	0.000	0.0	0.0000	0.0000	OK
15 minute winter	24.001:50%	11	9.741	0.034	2.1	0.0728	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	54	1.005	40	5.5	0.672	0.682	0.0962	
15 minute winter	SW-03	7.002	54	5.2	0.823	0.510	0.0205	
15 minute winter	56	7.001	7.001:50%	1.9	0.572	0.256	0.0235	
15 minute winter	56	7.001	SW-03	4.0	0.835	0.525	0.0329	
15 minute winter	57	7.000	7.000:50%	-0.1	-0.114	-0.014	0.0013	
15 minute winter	57	7.000	56	2.0	0.840	0.233	0.0018	
15 minute summer	58	8.000	8.000:50%	0.0	0.000	0.000	0.0011	
15 minute summer	58	8.000	SW-03	1.2	0.451	0.100	0.0055	
360 minute winter	59	1.019	4	2.8	0.304	0.338	0.0733	
360 minute winter	SW-11	26.001	26.001:50%	0.1	0.388	0.014	0.0205	
360 minute winter	SW-11	26.001	59	0.9	0.149	0.112	0.0205	
15 minute summer	61	26.000	26.000:50%	0.0	0.000	0.000	0.0024	
15 minute summer	61	26.000	SW-11	0.8	0.675	0.087	0.0051	
360 minute winter	62	1.018	59	2.3	0.314	0.277	0.0642	
360 minute winter	63	25.000	25.000:50%	-0.2	-0.035	-0.070	0.0534	
360 minute winter	63	25.000	62	0.6	0.184	0.221	0.0534	
360 minute winter	64	1.017	62	1.8	0.313	0.219	0.0551	
360 minute winter	SW-10	24.002	24.002:50%	0.6	0.465	0.071	0.0152	
360 minute winter	SW-10	24.002	64	-0.4	0.188	-0.047	0.0152	
15 minute summer	66	24.001	24.001:50%	0.0	0.000	0.000	0.0052	
15 minute summer	66	24.001	SW-10	1.9	0.876	0.227	0.0104	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	53	13	9.867	0.107	0.4	0.0000	0.0000	SURCHARGED
15 minute winter	1.000:50%	13	9.867	0.123	6.6	0.6253	0.0000	SURCHARGED
15 minute winter	52	13	9.829	0.101	4.6	0.0000	0.0000	SURCHARGED
15 minute summer	51	1	9.900	0.000	0.0	0.0000	0.0000	OK
15 minute winter	3.000:50%	10	9.886	0.026	1.4	0.0000	0.0000	OK
15 minute summer	50	1	10.050	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2.000:50%	10	9.966	0.031	1.9	0.0000	0.0000	OK
15 minute winter	SW-01	10	9.867	0.047	3.3	0.0181	0.0000	OK
600 minute winter	48	585	9.804	0.097	1.6	10.5078	0.0000	OK
15 minute summer	47	1	10.000	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	11	9.961	0.052	4.4	0.1505	0.0000	OK
15 minute summer	46	1	9.950	0.000	0.0	0.0000	0.0000	OK
15 minute winter	5.000:50%	10	9.906	0.022	1.3	0.0302	0.0000	OK
15 minute winter	SW-02	11	9.877	0.060	5.4	0.0230	0.0000	OK
600 minute winter	44	585	9.804	0.118	1.9	0.0000	0.0000	OK
600 minute winter	43	585	9.804	0.109	0.0	0.0000	0.0000	SURCHARGED
600 minute winter	6.000:50%	585	9.804	0.123	0.2	0.0000	0.0000	SURCHARGED
600 minute winter	42	585	9.804	0.138	2.1	0.0000	0.0000	OK
600 minute winter	41	585	9.804	0.143	0.0	0.0000	0.0000	SURCHARGED
600 minute winter	9.000:50%	585	9.804	0.151	0.2	0.0000	0.0000	SURCHARGED
600 minute winter	40	585	9.804	0.160	4.0	15.6259	0.0000	SURCHARGED
15 minute summer	39	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	10.000:50%	10	9.961	0.074	5.7	0.0000	0.0000	OK
15 minute winter	SW-04	10	9.857	0.063	5.6	0.0242	0.0000	OK
600 minute winter	37	600	9.804	0.168	3.6	0.0000	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	53	1.000	1.000:50%	-0.4	-0.156	-0.133	0.0571	
15 minute winter	53	1.000	52	4.6	0.593	1.669	0.0571	
15 minute winter	52	1.001	48	4.5	0.838	1.641	0.0680	
15 minute summer	51	3.000	3.000:50%	0.0	0.000	0.000	0.0010	
15 minute summer	51	3.000	SW-01	1.3	0.532	0.120	0.0032	
15 minute summer	50	2.000	2.000:50%	0.0	0.000	0.000	0.0049	
15 minute summer	50	2.000	SW-01	1.8	0.655	0.193	0.0136	
15 minute winter	SW-01	2.001	48	3.2	1.040	0.434	0.0300	
600 minute winter	48	1.002	44	1.4	0.299	0.171	0.1283	
15 minute summer	47	4.000	4.000:50%	0.0	0.000	0.000	0.0087	
15 minute summer	47	4.000	SW-02	4.0	0.933	0.459	0.0188	
15 minute summer	46	5.000	5.000:50%	0.0	0.000	0.000	0.0011	
15 minute summer	46	5.000	SW-02	1.2	0.419	0.097	0.0051	
15 minute winter	SW-02	4.001	44	5.4	0.874	0.559	0.0314	
600 minute winter	44	1.003	42	1.9	0.309	0.230	0.1442	
600 minute winter	43	6.000	6.000:50%	0.0	-0.013	0.010	0.0517	
600 minute winter	43	6.000	42	0.2	0.090	0.068	0.0517	
600 minute winter	42	1.004	54	2.1	0.291	0.257	0.0411	
600 minute winter	41	9.000	9.000:50%	0.0	-0.022	-0.011	0.0318	
600 minute winter	41	9.000	40	0.2	0.053	0.066	0.0318	
600 minute winter	40	1.006	37	3.1	0.343	0.364	0.0614	
15 minute summer	39	10.000	10.000:50%	0.0	0.000	0.000	0.0195	
15 minute summer	39	10.000	SW-04	5.3	0.974	0.736	0.0357	
15 minute winter	SW-04	10.001	37	5.6	0.856	0.631	0.0479	
600 minute winter	37	1.007	33	3.5	0.381	0.454	0.0355	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	36	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11.000:50%	10	9.944	0.057	3.8	0.0000	0.0000	OK
15 minute summer	35	1	9.894	0.000	0.0	0.0000	0.0000	OK
15 minute winter	12.000:50%	10	9.884	0.040	2.5	0.0000	0.0000	OK
15 minute winter	SW-05	10	9.861	0.067	6.2	0.0260	0.0000	OK
600 minute winter	33	585	9.804	0.172	4.0	0.0000	0.0000	SURCHARGED
600 minute winter	32	585	9.804	0.160	0.1	0.0000	0.0000	SURCHARGED
600 minute winter	13.000:50%	585	9.803	0.168	0.3	1.2524	0.0000	SURCHARGED
600 minute winter	31	600	9.804	0.179	4.1	0.0000	0.0000	SURCHARGED
600 minute winter	30	600	9.803	0.173	0.1	0.0000	0.0000	SURCHARGED
600 minute winter	14.000:50%	570	9.803	0.182	0.2	0.0000	0.0000	SURCHARGED
600 minute winter	29	585	9.803	0.191	4.3	0.0000	0.0000	SURCHARGED
15 minute summer	28	1	9.880	0.000	0.0	0.0000	0.0000	OK
15 minute winter	16.000:50%	10	9.842	0.033	2.5	0.0000	0.0000	OK
15 minute summer	27	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	15.000:50%	11	9.898	0.049	3.8	0.1822	0.0000	OK
600 minute winter	SW-06	570	9.803	0.066	0.5	0.0254	0.0000	OK
600 minute winter	25	555	9.803	0.200	4.7	0.0000	0.0000	SURCHARGED
15 minute summer	24	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	17.000:50%	11	9.892	0.044	2.7	0.1428	0.0000	OK
600 minute winter	SW-07	585	9.803	0.066	0.2	0.0255	0.0000	OK
600 minute winter	21	585	9.803	0.205	5.8	27.4302	0.0000	SURCHARGED
600 minute winter	20	585	9.803	0.188	0.0	0.0000	0.0000	SURCHARGED
600 minute winter	19.000:50%	585	9.803	0.204	0.3	0.0000	0.0000	SURCHARGED
600 minute winter	19	585	9.803	0.220	3.8	0.0000	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	36	11.000	11.000:50%	0.0	0.000	0.000	0.0155	
15 minute summer	36	11.000	SW-05	3.5	0.732	0.512	0.0345	
15 minute summer	35	12.000	12.000:50%	0.0	0.000	0.000	0.0028	
15 minute summer	35	12.000	SW-05	2.4	0.588	0.247	0.0081	
15 minute winter	SW-05	11.001	33	6.2	0.906	0.688	0.0489	
600 minute winter	33	1.008	31	4.0	0.428	0.490	0.0561	
600 minute winter	32	13.000	13.000:50%	-0.1	-0.015	-0.032	0.0347	
600 minute winter	32	13.000	31	-0.3	-0.036	-0.103	0.0347	
600 minute winter	31	1.009	29	4.1	0.420	0.506	0.1069	
600 minute winter	30	14.000	14.000:50%	-0.1	-0.018	-0.042	0.0324	
600 minute winter	30	14.000	29	-0.2	0.034	-0.076	0.0324	
600 minute winter	29	1.010	25	4.2	0.412	0.531	0.0765	
15 minute summer	28	16.000	16.000:50%	0.0	0.000	0.000	0.0019	
15 minute summer	28	16.000	SW-06	2.4	0.700	0.194	0.0063	
15 minute summer	27	15.000	15.000:50%	0.0	0.000	0.000	0.0125	
15 minute summer	27	15.000	SW-06	3.4	0.777	0.435	0.0295	
600 minute winter	SW-06	15.001	25	0.5	0.186	0.057	0.0428	
600 minute winter	25	1.011	21	4.7	0.470	0.542	0.0361	
15 minute summer	24	17.000	17.000:50%	0.0	0.000	0.000	0.0130	
15 minute summer	24	17.000	SW-07	2.4	0.851	0.345	0.0233	
600 minute winter	SW-07	18.000	21	0.2	0.094	0.022	0.0424	
600 minute winter	21	1.012	19	3.5	0.398	0.438	0.1246	
600 minute winter	20	19.000	19.000:50%	0.0	-0.010	-0.009	0.0586	
600 minute winter	20	19.000	19	0.3	0.160	0.101	0.0586	
600 minute winter	19	1.013	15	3.8	0.396	0.457	0.0877	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	18	1	9.910	0.000	0.0	0.0000	0.0000	OK
15 minute winter	21.000:50%	11	9.852	0.041	2.5	0.1257	0.0000	OK
15 minute summer	17	1	9.930	0.000	0.0	0.0000	0.0000	OK
15 minute winter	20.000:50%	11	9.879	0.057	4.4	0.2471	0.0000	OK
600 minute winter	SW-08	585	9.803	0.090	0.6	0.0346	0.0000	OK
600 minute winter	15	585	9.803	0.231	4.3	0.0000	0.0000	SURCHARGED
600 minute winter	14	585	9.803	0.211	0.0	0.0000	0.0000	SURCHARGED
600 minute winter	22.000:50%	585	9.802	0.227	0.3	2.3423	0.0000	SURCHARGED
600 minute winter	13	585	9.803	0.244	5.2	31.9531	0.0000	SURCHARGED
15 minute summer	12	1	9.850	0.000	0.0	0.0000	0.0000	OK
600 minute winter	23.000:50%	585	9.802	0.105	0.4	0.6562	0.0000	SURCHARGED
600 minute winter	SW-09	585	9.803	0.258	0.4	0.0992	0.0000	SURCHARGED
600 minute winter	10	585	9.803	0.258	3.0	18.6669	0.0000	SURCHARGED
600 minute winter	9	585	9.802	0.052	0.0	0.0000	0.0000	OK
600 minute winter	27.000:50%	585	9.802	0.135	0.6	1.3689	0.0000	SURCHARGED
600 minute winter	SW-13	585	9.802	0.219	0.5	0.0844	0.0000	SURCHARGED
15 minute summer	7	1	9.825	0.000	0.0	0.0000	0.0000	OK
600 minute winter	28.000:50%	585	9.802	0.094	0.3	0.5739	0.0000	OK
600 minute winter	6	585	9.802	0.037	0.0	0.0000	0.0000	OK
600 minute winter	29.000:50%	585	9.802	0.124	0.9	0.0000	0.0000	SURCHARGED
600 minute winter	SW-12	585	9.802	0.212	1.8	0.0817	0.0000	SURCHARGED
600 minute winter	4	585	9.802	0.296	3.3	21.5838	0.0000	SURCHARGED
600 minute winter	SW-14 (HYDRO)	585	9.802	0.308	1.2	0.3484	0.0000	FLOOD RISK
360 minute summer	SW-15	2000	9.431	0.027	1.2	0.0303	0.0000	OK
180 minute winter	DITCH HEADWALL	80	9.379	0.026	1.2	0.0000	0.0000	OK

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	18	21.000	21.000:50%	0.0	0.000	0.000	0.0118	
15 minute summer	18	21.000	SW-08	2.3	0.544	0.338	0.0337	
15 minute summer	17	20.000	20.000:50%	0.0	0.000	0.000	0.0185	
15 minute summer	17	20.000	SW-08	3.9	0.776	0.556	0.0410	
600 minute winter	SW-08	20.001	15	0.6	0.174	0.067	0.0494	
600 minute winter	15	1.014	13	4.2	0.440	0.524	0.1077	
600 minute winter	14	22.000	22.000:50%	0.0	-0.009	0.011	0.0597	
600 minute winter	14	22.000	13	0.2	0.185	0.060	0.0597	
600 minute winter	13	1.015	10	2.4	0.378	0.294	0.1165	
15 minute summer	12	23.000	23.000:50%	0.0	0.000	0.000	0.0078	
15 minute summer	12	23.000	SW-09	3.6	0.706	0.345	0.0265	
600 minute winter	SW-09	23.001	10	0.4	0.219	0.139	0.0450	
600 minute winter	10	1.016	64	1.6	0.310	0.204	0.1245	
600 minute winter	9	27.000	27.000:50%	0.0	-0.006	-0.004	0.0282	
600 minute winter	9	27.000	SW-13	0.5	0.440	0.063	0.0370	
600 minute winter	SW-13	27.001	4	0.5	0.411	0.082	0.0626	
15 minute summer	7	28.000	28.000:50%	0.0	0.000	0.000	0.0022	
15 minute summer	7	28.000	SW-12	1.1	0.442	0.103	0.0116	
600 minute winter	6	29.000	29.000:50%	0.0	-0.005	-0.002	0.0071	
600 minute winter	6	29.000	SW-12	1.7	0.450	0.107	0.0107	
600 minute winter	SW-12	28.001	4	0.7	0.166	0.084	0.0374	
600 minute winter	4	1.020	SW-14 (HYDRO)	1.2	0.145	0.054	0.2363	
600 minute winter	SW-14 (HYDRO)	Hydro-Brake®	SW-15	1.2				
360 minute summer	SW-15	1.022	DITCH HEADWALL	1.2	0.463	0.028	0.0200	143.8

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	54	585	9.804	0.143	2.9	0.0000	0.0000	OK
15 minute winter	SW-03	12	9.853	0.099	7.8	0.0382	0.0000	OK
15 minute winter	56	10	10.013	0.043	2.9	0.0000	0.0000	OK
15 minute winter	7.001:50%	10	9.937	0.075	6.0	0.0000	0.0000	OK
15 minute winter	57	10	10.027	0.027	0.1	0.0000	0.0000	OK
15 minute winter	7.000:50%	10	10.027	0.042	3.0	0.0000	0.0000	OK
15 minute summer	58	1	9.890	0.000	0.0	0.0000	0.0000	OK
15 minute winter	8.000:50%	10	9.849	0.027	1.9	0.0000	0.0000	OK
600 minute winter	59	585	9.802	0.287	2.0	0.0000	0.0000	SURCHARGED
600 minute winter	SW-11	570	9.802	0.198	0.1	0.0763	0.0000	SURCHARGED
600 minute winter	26.001:50%	570	9.802	0.242	0.4	0.0000	0.0000	SURCHARGED
600 minute winter	61	585	9.802	0.002	0.0	0.0000	0.0000	OK
600 minute winter	26.000:50%	585	9.802	0.100	0.1	0.6438	0.0000	SURCHARGED
600 minute winter	62	585	9.803	0.280	1.9	0.0000	0.0000	SURCHARGED
600 minute winter	63	570	9.803	0.251	0.2	0.0000	0.0000	SURCHARGED
600 minute winter	25.000:50%	570	9.802	0.265	0.6	0.0000	0.0000	SURCHARGED
600 minute winter	64	585	9.803	0.273	2.0	0.0000	0.0000	SURCHARGED
600 minute winter	SW-10	585	9.803	0.188	1.1	0.0723	0.0000	SURCHARGED
600 minute winter	24.002:50%	585	9.802	0.230	0.5	2.5329	0.0000	SURCHARGED
600 minute winter	66	585	9.803	0.003	0.0	0.0000	0.0000	OK
600 minute winter	24.001:50%	585	9.802	0.095	0.3	0.5789	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	54	1.005	40	2.8	0.362	0.349	0.1377	
15 minute winter	SW-03	7.002	54	7.6	0.983	0.741	0.0256	
15 minute winter	56	7.001	7.001:50%	2.9	0.617	0.382	0.0326	
15 minute winter	56	7.001	SW-03	6.0	0.878	0.791	0.0483	
15 minute winter	57	7.000	7.000:50%	-0.1	-0.124	-0.015	0.0018	
15 minute winter	57	7.000	56	2.9	0.935	0.349	0.0024	
15 minute summer	58	8.000	8.000:50%	0.0	0.000	0.000	0.0015	
15 minute summer	58	8.000	SW-03	1.8	0.505	0.151	0.0078	
600 minute winter	59	1.019	4	2.2	0.283	0.276	0.0733	
600 minute winter	SW-11	26.001	26.001:50%	0.1	0.111	0.018	0.0205	
600 minute winter	SW-11	26.001	59	0.3	0.057	0.039	0.0205	
600 minute winter	61	26.000	26.000:50%	0.0	-0.002	-0.001	0.0169	
600 minute winter	61	26.000	SW-11	0.1	0.365	0.011	0.0335	
600 minute winter	62	1.018	59	2.0	0.303	0.241	0.0642	
600 minute winter	63	25.000	25.000:50%	0.3	-0.056	0.097	0.0534	
600 minute winter	63	25.000	62	0.4	0.177	0.135	0.0534	
600 minute winter	64	1.017	62	1.7	0.302	0.205	0.0551	
600 minute winter	SW-10	24.002	24.002:50%	-0.8	0.376	-0.086	0.0152	
600 minute winter	SW-10	24.002	64	0.5	0.146	0.054	0.0152	
600 minute winter	66	24.001	24.001:50%	0.0	-0.003	-0.001	0.0181	
600 minute winter	66	24.001	SW-10	0.3	0.456	0.035	0.0364	

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Results for 500 year +40% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	53	13	9.916	0.156	0.5	0.0000	0.0000	SURCHARGED
15 minute winter	1.000:50%	13	9.916	0.172	9.3	1.2291	0.0000	SURCHARGED
600 minute winter	52	600	9.898	0.170	0.8	0.0000	0.0000	SURCHARGED
15 minute summer	51	1	9.900	0.000	0.0	0.0000	0.0000	OK
600 minute winter	3.000:50%	600	9.898	0.038	0.2	0.0000	0.0000	OK
15 minute summer	50	1	10.050	0.000	0.0	0.0000	0.0000	OK
15 minute winter	2.000:50%	10	9.972	0.037	2.7	0.0000	0.0000	OK
600 minute winter	SW-01	600	9.898	0.078	0.4	0.0301	0.0000	OK
600 minute winter	48	600	9.898	0.191	2.4	22.1315	0.0000	SURCHARGED
15 minute summer	47	1	10.000	0.000	0.0	0.0000	0.0000	OK
15 minute winter	4.000:50%	11	9.976	0.067	6.2	0.2467	0.0000	OK
15 minute summer	46	1	9.950	0.000	0.0	0.0000	0.0000	OK
15 minute winter	5.000:50%	10	9.910	0.026	1.8	0.0422	0.0000	OK
600 minute winter	SW-02	585	9.898	0.081	0.8	0.0311	0.0000	OK
600 minute winter	44	585	9.898	0.212	2.2	0.0000	0.0000	SURCHARGED
600 minute winter	43	600	9.899	0.204	0.1	0.0000	0.0000	SURCHARGED
600 minute winter	6.000:50%	600	9.898	0.217	0.3	0.0000	0.0000	SURCHARGED
600 minute winter	42	585	9.899	0.233	2.4	0.0000	0.0000	SURCHARGED
600 minute winter	41	585	9.898	0.237	0.0	0.0000	0.0000	SURCHARGED
600 minute winter	9.000:50%	585	9.897	0.245	0.2	0.0000	0.0000	SURCHARGED
600 minute winter	40	585	9.898	0.254	4.8	25.4900	0.0000	SURCHARGED
15 minute winter	39	11	10.009	0.029	0.4	0.0000	0.0000	OK
15 minute winter	10.000:50%	11	10.009	0.122	8.0	0.0000	0.0000	SURCHARGED
600 minute winter	SW-04	585	9.898	0.104	0.7	0.0399	0.0000	SURCHARGED
600 minute winter	37	600	9.898	0.262	3.8	0.0000	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	53	1.000	1.000:50%	-0.5	-0.166	-0.164	0.0571	
15 minute winter	53	1.000	52	5.2	0.670	1.887	0.0571	
600 minute winter	52	1.001	48	0.8	0.264	0.286	0.0765	
15 minute summer	51	3.000	3.000:50%	0.0	0.000	0.000	0.0013	
15 minute summer	51	3.000	SW-01	1.9	0.562	0.173	0.0042	
15 minute summer	50	2.000	2.000:50%	0.0	0.000	0.000	0.0064	
15 minute summer	50	2.000	SW-01	2.6	0.725	0.280	0.0177	
600 minute winter	SW-01	2.001	48	0.4	0.209	0.054	0.0539	
600 minute winter	48	1.002	44	1.5	0.296	0.181	0.1675	
15 minute summer	47	4.000	4.000:50%	0.0	0.000	0.000	0.0116	
15 minute summer	47	4.000	SW-02	5.7	0.975	0.640	0.0250	
15 minute summer	46	5.000	5.000:50%	0.0	0.000	0.000	0.0014	
15 minute summer	46	5.000	SW-02	1.6	0.449	0.139	0.0068	
600 minute winter	SW-02	4.001	44	0.8	0.258	0.082	0.0372	
600 minute winter	44	1.003	42	2.2	0.307	0.261	0.1593	
600 minute winter	43	6.000	6.000:50%	0.1	0.011	0.031	0.0517	
600 minute winter	43	6.000	42	0.3	0.098	0.097	0.0517	
600 minute winter	42	1.004	54	2.4	0.289	0.297	0.0422	
600 minute winter	41	9.000	9.000:50%	0.0	-0.019	-0.014	0.0318	
600 minute winter	41	9.000	40	0.2	0.041	0.065	0.0318	
600 minute winter	40	1.006	37	3.2	0.341	0.377	0.0614	
15 minute winter	39	10.000	10.000:50%	-0.4	-0.083	-0.062	0.0318	
15 minute winter	39	10.000	SW-04	7.5	0.993	1.034	0.0508	
600 minute winter	SW-04	10.001	37	0.7	0.219	0.080	0.0588	
600 minute winter	37	1.007	33	3.7	0.385	0.481	0.0355	

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Results for 500 year +40% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	36	1	9.980	0.000	0.0	0.0000	0.0000	OK
15 minute winter	11.000:50%	11	9.960	0.073	5.3	0.0000	0.0000	OK
15 minute winter	35	12	9.925	0.031	0.3	0.0000	0.0000	OK
15 minute winter	12.000:50%	12	9.925	0.081	3.6	0.0000	0.0000	OK
15 minute winter	SW-05	12	9.919	0.125	8.1	0.0482	0.0000	SURCHARGED
600 minute winter	33	585	9.898	0.266	4.4	0.0000	0.0000	SURCHARGED
600 minute winter	32	585	9.897	0.253	0.0	0.0000	0.0000	SURCHARGED
600 minute winter	13.000:50%	585	9.897	0.262	0.4	3.0485	0.0000	SURCHARGED
600 minute winter	31	600	9.897	0.272	4.5	0.0000	0.0000	SURCHARGED
600 minute winter	30	615	9.898	0.268	0.2	0.0000	0.0000	SURCHARGED
600 minute winter	14.000:50%	600	9.897	0.276	0.2	0.0000	0.0000	SURCHARGED
600 minute winter	29	600	9.897	0.285	4.6	0.0000	0.0000	SURCHARGED
600 minute winter	28	585	9.897	0.017	0.1	0.0000	0.0000	OK
600 minute winter	16.000:50%	585	9.897	0.088	0.6	0.0000	0.0000	OK
15 minute summer	27	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	15.000:50%	12	9.909	0.061	5.3	0.2760	0.0000	OK
600 minute winter	SW-06	585	9.897	0.160	0.8	0.0617	0.0000	SURCHARGED
600 minute winter	25	600	9.898	0.295	5.3	0.0000	0.0000	SURCHARGED
15 minute summer	24	1	9.960	0.000	0.0	0.0000	0.0000	OK
15 minute winter	17.000:50%	11	9.902	0.054	3.9	0.2171	0.0000	OK
600 minute winter	SW-07	585	9.897	0.160	0.3	0.0617	0.0000	SURCHARGED
600 minute winter	21	585	9.897	0.299	6.6	40.8696	0.0000	SURCHARGED
600 minute winter	20	585	9.897	0.282	0.1	0.0000	0.0000	SURCHARGED
600 minute winter	19.000:50%	585	9.897	0.298	0.5	0.0000	0.0000	SURCHARGED
600 minute winter	19	585	9.897	0.314	3.7	0.0000	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	36	11.000	11.000:50%	0.0	0.000	0.000	0.0204	
15 minute summer	36	11.000	SW-05	5.0	0.760	0.730	0.0471	
15 minute winter	35	12.000	12.000:50%	0.4	-0.118	0.041	0.0088	
15 minute winter	35	12.000	SW-05	3.3	0.610	0.340	0.0144	
15 minute winter	SW-05	11.001	33	7.7	1.022	0.855	0.0575	
600 minute winter	33	1.008	31	4.4	0.436	0.538	0.0561	
600 minute winter	32	13.000	13.000:50%	0.0	-0.021	0.014	0.0347	
600 minute winter	32	13.000	31	-0.3	-0.046	-0.111	0.0347	
600 minute winter	31	1.009	29	4.4	0.429	0.548	0.1069	
600 minute winter	30	14.000	14.000:50%	-0.2	-0.031	-0.086	0.0324	
600 minute winter	30	14.000	29	0.2	0.030	0.085	0.0324	
600 minute winter	29	1.010	25	4.6	0.420	0.572	0.0765	
600 minute winter	28	16.000	16.000:50%	0.1	0.025	0.006	0.0072	
600 minute winter	28	16.000	SW-06	-0.4	0.407	-0.034	0.0133	
15 minute summer	27	15.000	15.000:50%	0.0	0.000	0.000	0.0159	
15 minute summer	27	15.000	SW-06	4.7	0.756	0.606	0.0425	
600 minute winter	SW-06	15.001	25	0.8	0.270	0.091	0.0504	
600 minute winter	25	1.011	21	5.2	0.465	0.602	0.0361	
15 minute summer	24	17.000	17.000:50%	0.0	0.000	0.000	0.0167	
15 minute summer	24	17.000	SW-07	3.4	0.918	0.482	0.0302	
600 minute winter	SW-07	18.000	21	0.3	0.217	0.033	0.0498	
600 minute winter	21	1.012	19	3.4	0.393	0.424	0.1246	
600 minute winter	20	19.000	19.000:50%	-0.1	-0.010	-0.018	0.0586	
600 minute winter	20	19.000	19	0.5	0.170	0.168	0.0586	
600 minute winter	19	1.013	15	3.6	0.387	0.442	0.0877	

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Results for 500 year +40% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	18	1	9.910	0.000	0.0	0.0000	0.0000	OK
600 minute winter	21.000:50%	585	9.897	0.085	0.3	0.5578	0.0000	OK
15 minute summer	17	1	9.930	0.000	0.0	0.0000	0.0000	OK
600 minute winter	20.000:50%	585	9.897	0.075	0.6	0.4332	0.0000	OK
600 minute winter	SW-08	585	9.897	0.184	0.9	0.0708	0.0000	SURCHARGED
600 minute winter	15	585	9.897	0.325	4.3	0.0000	0.0000	SURCHARGED
600 minute winter	14	585	9.897	0.305	0.0	0.0000	0.0000	SURCHARGED
600 minute winter	22.000:50%	585	9.897	0.321	0.5	4.6944	0.0000	SURCHARGED
600 minute winter	13	585	9.897	0.338	5.6	39.8661	0.0000	SURCHARGED
600 minute winter	12	585	9.897	0.047	0.0	0.0000	0.0000	OK
600 minute winter	23.000:50%	585	9.896	0.199	0.5	2.3705	0.0000	SURCHARGED
600 minute winter	SW-09	585	9.897	0.352	0.4	0.1355	0.0000	SURCHARGED
600 minute winter	10	585	9.897	0.352	3.0	21.9380	0.0000	SURCHARGED
600 minute winter	9	585	9.896	0.146	0.0	0.0000	0.0000	FLOOD RISK
600 minute winter	27.000:50%	585	9.896	0.229	0.8	3.9261	0.0000	SURCHARGED
600 minute winter	SW-13	585	9.896	0.313	0.6	0.1206	0.0000	FLOOD RISK
600 minute winter	7	600	9.896	0.071	0.0	0.0000	0.0000	OK
600 minute winter	28.000:50%	585	9.895	0.188	0.3	2.2784	0.0000	SURCHARGED
600 minute winter	6	585	9.896	0.131	0.0	0.0000	0.0000	FLOOD RISK
600 minute winter	29.000:50%	585	9.895	0.218	0.4	0.0000	0.0000	SURCHARGED
600 minute winter	SW-12	585	9.896	0.306	2.6	0.1179	0.0000	FLOOD RISK
600 minute winter	4	585	9.896	0.390	3.0	21.9463	0.0000	FLOOD RISK
600 minute winter	SW-14 (HYDRO)	585	9.896	0.402	1.2	0.4545	0.0000	FLOOD RISK
600 minute winter	SW-15	585	9.431	0.027	1.2	0.0303	0.0000	OK
600 minute winter	DITCH HEADWALL	585	9.379	0.026	1.2	0.0000	0.0000	OK

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	18	21.000	21.000:50%	0.0	0.000	0.000	0.0150	
15 minute summer	18	21.000	SW-08	3.2	0.574	0.471	0.0450	
15 minute summer	17	20.000	20.000:50%	0.0	0.000	0.000	0.0240	
15 minute summer	17	20.000	SW-08	5.3	0.802	0.769	0.0548	
600 minute winter	SW-08	20.001	15	0.9	0.195	0.096	0.0508	
600 minute winter	15	1.014	13	4.3	0.430	0.532	0.1077	
600 minute winter	14	22.000	22.000:50%	0.0	-0.012	-0.013	0.0597	
600 minute winter	14	22.000	13	0.2	0.198	0.061	0.0597	
600 minute winter	13	1.015	10	2.3	0.382	0.288	0.1165	
600 minute winter	12	23.000	23.000:50%	0.0	-0.006	-0.004	0.0300	
600 minute winter	12	23.000	SW-09	0.4	0.125	0.040	0.0412	
600 minute winter	SW-09	23.001	10	0.4	0.241	0.146	0.0450	
600 minute winter	10	1.016	64	1.8	0.327	0.223	0.1245	
600 minute winter	9	27.000	27.000:50%	0.0	-0.005	-0.004	0.0370	
600 minute winter	9	27.000	SW-13	0.6	0.440	0.074	0.0370	
600 minute winter	SW-13	27.001	4	0.6	0.332	0.095	0.0626	
600 minute winter	7	28.000	28.000:50%	0.0	-0.005	-0.003	0.0242	
600 minute winter	7	28.000	SW-12	0.4	0.291	0.033	0.0275	
600 minute winter	6	29.000	29.000:50%	0.2	0.021	0.011	0.0107	
600 minute winter	6	29.000	SW-12	2.2	0.440	0.143	0.0107	
600 minute winter	SW-12	28.001	4	0.6	0.219	0.070	0.0374	
600 minute winter	4	1.020	SW-14 (HYDRO)	1.2	0.143	0.054	0.2363	
600 minute winter	SW-14 (HYDRO)	Hydro-Brake®	SW-15	1.2				
600 minute winter	SW-15	1.022	DITCH HEADWALL	1.2	0.464	0.028	0.0200	51.8

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Results for 500 year +40% CC Critical Storm Duration. Lowest mass balance: 96.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	54	600	9.898	0.237	3.4	0.0000	0.0000	SURCHARGED
15 minute winter	SW-03	12	9.922	0.168	9.0	0.0647	0.0000	SURCHARGED
15 minute winter	56	12	10.064	0.094	3.8	0.0000	0.0000	OK
15 minute winter	7.001:50%	12	10.043	0.181	7.9	0.0000	0.0000	SURCHARGED
15 minute winter	57	12	10.064	0.063	0.3	0.0000	0.0000	OK
15 minute winter	7.000:50%	12	10.063	0.078	4.3	0.0000	0.0000	OK
15 minute winter	58	12	9.926	0.036	0.3	0.0000	0.0000	OK
15 minute winter	8.000:50%	12	9.926	0.104	2.7	0.0000	0.0000	SURCHARGED
600 minute winter	59	600	9.896	0.381	2.0	0.0000	0.0000	FLOOD RISK
600 minute winter	SW-11	600	9.896	0.292	0.2	0.1125	0.0000	FLOOD RISK
600 minute winter	26.001:50%	585	9.896	0.336	0.3	0.0000	0.0000	SURCHARGED
600 minute winter	61	600	9.896	0.096	0.0	0.0000	0.0000	OK
600 minute winter	26.000:50%	585	9.896	0.194	0.3	2.4087	0.0000	SURCHARGED
600 minute winter	62	585	9.897	0.374	2.1	0.0000	0.0000	FLOOD RISK
600 minute winter	63	585	9.897	0.345	0.1	0.0000	0.0000	SURCHARGED
600 minute winter	25.000:50%	585	9.896	0.359	0.5	0.0000	0.0000	SURCHARGED
600 minute winter	64	600	9.897	0.367	2.1	0.0000	0.0000	FLOOD RISK
600 minute winter	SW-10	585	9.896	0.281	0.4	0.1083	0.0000	FLOOD RISK
600 minute winter	24.002:50%	585	9.896	0.323	1.0	5.0243	0.0000	SURCHARGED
600 minute winter	66	585	9.896	0.096	0.0	0.0000	0.0000	OK
600 minute winter	24.001:50%	585	9.896	0.188	0.4	2.2909	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)
600 minute winter	54	1.005	40	3.3	0.366	0.410	0.1388	
15 minute winter	SW-03	7.002	54	8.8	1.124	0.859	0.0256	
15 minute winter	56	7.001	7.001:50%	3.7	0.599	0.494	0.0533	
15 minute winter	56	7.001	SW-03	7.1	0.914	0.943	0.0539	
15 minute winter	57	7.000	7.000:50%	0.7	0.303	0.082	0.0046	
15 minute winter	57	7.000	56	3.8	1.008	0.452	0.0055	
15 minute winter	58	8.000	8.000:50%	-0.3	-0.111	-0.029	0.0093	
15 minute winter	58	8.000	SW-03	2.2	0.596	0.186	0.0141	
600 minute winter	59	1.019	4	1.9	0.297	0.237	0.0733	
600 minute winter	SW-11	26.001	26.001:50%	-0.2	0.095	-0.027	0.0205	
600 minute winter	SW-11	26.001	59	0.3	0.063	0.032	0.0205	
600 minute winter	61	26.000	26.000:50%	0.0	-0.006	-0.005	0.0333	
600 minute winter	61	26.000	SW-11	-0.2	0.365	-0.020	0.0336	
600 minute winter	62	1.018	59	2.0	0.322	0.241	0.0642	
600 minute winter	63	25.000	25.000:50%	-0.1	-0.016	-0.038	0.0534	
600 minute winter	63	25.000	62	0.5	0.177	0.168	0.0534	
600 minute winter	64	1.017	62	1.8	0.321	0.221	0.0551	
600 minute winter	SW-10	24.002	24.002:50%	1.0	0.376	0.110	0.0152	
600 minute winter	SW-10	24.002	64	-0.4	0.188	-0.042	0.0152	
600 minute winter	66	24.001	24.001:50%	0.0	-0.005	-0.004	0.0365	
600 minute winter	66	24.001	SW-10	0.4	0.456	0.047	0.0367	

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