



Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	250.0
Additional Flow (%)	10	Minimum Velocity (m/s)	0.75
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	0.600
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
130	0.077	5.00	5.250	1200	0.750
129 - PP	0.077	5.00	4.950	1200	0.825
129			4.950	1200	0.841
128			4.750	1200	0.875
127			5.800	1200	0.850
126			5.300	1200	0.900
N7	0.030	5.00	4.800		0.600
N6			4.800		0.663
N5	0.020	5.00	4.800		0.696
N4			4.800	1200	0.709
N3			4.700		0.697
N2	0.020	5.00	4.750		0.910
N1			4.750		0.940
125			5.000	1200	0.800
124			5.300	1200	1.075
123			5.300	1200	0.925
122	0.110	5.00	5.300	1200	0.750
121			5.150	1200	0.625
119 - PP	0.114	5.00	5.600		0.875
119			5.600	1200	0.925
118 - PP	0.115	5.00	5.400	1200	0.900
118			5.400	1200	1.000
117	0.080	5.00	4.850	1200	0.739
116	0.020	5.00	4.750	1200	1.223
115	0.020	5.00	4.750	1200	1.268
114	0.019	5.00	4.750	1350	1.400
113	0.030	5.00	4.750	1350	1.450
112			4.750	1350	1.470
111			4.400	1350	1.150
110	0.050	5.00	5.400	1200	0.750
109	0.050	5.00	5.550	1200	0.750
108	0.050	5.00	5.250	1200	0.825
107			5.050	1200	0.825
106	0.136	5.00	5.150	1200	0.825
105			4.850	1200	0.825
104 - PP	0.137	5.00	4.700	1200	0.825
104			4.700	1200	0.913
103	0.021	5.00	4.550	1350	1.100
102	0.070	5.00	5.600	1200	0.825
101	0.070	5.00	5.300	1200	0.925
100	0.070	5.00	4.850	1200	1.100



Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
99	0.077	5.00	4.750	1200	1.175
98	0.021	5.00	4.450	1350	1.100
97			4.350	1350	1.030
96	0.037	5.00	4.350	1350	1.060
95			4.300	1350	1.040
94	0.046	5.00	6.300	1200	1.100
93	0.046	5.00	5.950	1200	1.050
92			5.750	1200	1.000
91			5.500	1200	0.950
90	0.110	5.00	5.250	1200	0.800
N8			5.100	1200	1.395
89			5.250	1200	0.846
88			5.325	1200	0.862
87	0.110	5.00	5.450	1200	0.850
86			5.450	1200	0.890
85		5.00	5.500	1200	0.900
84		5.00	5.600	1200	1.025
83	0.076	5.00	5.500	1200	1.025
82			5.500	1200	1.044
81	0.096	5.00	6.300	1200	0.800
80			6.150	1200	0.850
79	0.096	5.00	6.000	1200	0.775
78			6.000	1200	0.900
77			5.800	1200	0.850
76	0.096	5.00	5.700	1200	0.700
75			5.700	1200	0.900
73	0.040	5.00	6.300	1200	0.900
72	0.046	5.00	6.150	1200	0.875
71	0.046	5.00	6.000	1200	0.900
70			6.150	1200	1.050
69			6.250	1200	0.950
68	0.129	5.00	6.300	1200	0.900
67		5.00	6.350	1200	1.175
66	0.129	5.00	6.350	1200	1.275
65			6.350	1200	1.370
64			6.350	1200	1.450
63	0.043	5.00	6.000	1200	0.775
61	0.165	5.00	6.150	1200	0.775
60			6.150	1200	0.930
59	0.030	5.00	5.900	1200	0.900
58	0.024	5.00	5.750	1200	0.950
57	0.072	5.00	5.900	1200	0.825
56	0.130	5.00	6.350	1200	1.475
55			6.350	1350	1.642
54			6.200	1350	1.538
53			6.100	1350	1.474
52	0.130	5.00	5.900	1200	0.950
51			5.900	1350	1.390
50	0.041	5.00	5.650	1350	1.182
49	0.041	5.00	5.750	1350	1.308
48	0.041	5.00	5.800	1350	1.381
47	0.072	5.00	5.700	1350	1.332



Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Depth (m)
43	0.072	5.00	5.500	1500	1.271
42	0.050	5.00	5.300	1500	1.125
41	0.050	5.00	5.150	1500	1.125
40	0.050	5.00	5.075	1500	1.100
39			5.300	1500	1.347
38			5.100	1500	1.167
37			5.100	1500	1.395
36	0.040	5.00	5.050	1200	0.900
35			5.050	1200	1.345
32	0.090	5.00	5.125	1200	1.250
31	0.090	5.00	4.900	1200	1.125
30	0.081	5.00	5.050	1200	0.750
29	0.081	5.00	5.050	1200	0.750
28			5.050	1200	0.911
27	0.048	5.00	5.575	1200	0.825
26	0.048	5.00	5.300	1200	0.825
25	0.041	5.00	5.400	1200	1.397
24	0.041	5.00	5.275	1200	1.375
23			4.900	1350	1.291
22			4.900	1350	1.325
21			4.800	1350	1.273
20	0.042	5.00	5.125	1200	0.825
19	0.042	5.00	4.900	1200	0.825
18	0.046	5.00	5.175	1200	0.750
17	0.046	5.00	5.350	1200	0.750
16			5.350	1200	1.026
15	0.038	5.00	5.475	1200	1.301
14	0.038	5.00	5.350	1200	1.226
13	0.046	5.00	4.750	1200	1.000
12	0.046	5.00	4.650	1200	0.978
11	0.037	5.00	4.700	1200	1.098
10	0.114	5.00	4.700	1200	0.900
9			4.650	1350	1.154
8			4.600	1500	1.281
7			4.600	1500	1.734
6	0.047	5.00	4.600	1200	1.750
5			4.600	1200	1.767
4			4.500	1500	1.678
3	0.109	5.00	5.050	1200	1.400
2			5.050	1500	1.415
1			4.900	1200	1.274

Links (Input)

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)
16.011	112	111	6.612	0.600	3.280	3.250	0.030	220.4	375	10.42	41.7
16.010	113	112	5.572	0.600	3.300	3.280	0.020	278.6	375	10.33	41.9
16.009	114	113	7.379	0.600	3.350	3.300	0.050	147.6	375	10.24	42.1
21.002	128	114	10.667	0.600	3.875	3.825	0.050	213.3	225	6.23	54.2
16.008	115	114	21.266	0.600	3.482	3.425	0.057	375.0	300	10.16	42.3
12.010	N1	116	59.200	0.600	3.810	3.527	0.283	209.2	300	9.37	44.2



Links (Input)

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)
12.009_1	N2	N1	11.229	0.600	3.840	3.810	0.030	375.0	300	8.46	46.6
12.008_1	N3	N2	61.017	0.600	4.003	3.840	0.163	375.0	300	8.23	47.3
12.006_1	N5	N4	3.369	0.600	4.104	4.091	0.013	250.0	225	6.90	51.6
12.007_1	N4	N3	3.331	0.600	4.091	4.078	0.013	250.0	225	6.97	51.4
12.005_1	125	N5	3.609	0.600	4.200	4.104	0.096	37.6	225	6.83	51.9
14.001	N6	N5	8.255	0.600	4.137	4.104	0.033	250.0	225	5.49	57.4
14.000_1	N7	N6	15.864	0.600	4.200	4.137	0.063	250.0	225	5.32	58.1
16.007	116	115	16.940	0.600	3.527	3.482	0.045	375.0	300	9.72	43.3
16.006	117	116	22.427	0.600	4.111	4.000	0.111	202.0	300	7.63	49.1
19.001	118	117	46.159	0.600	4.400	4.111	0.289	159.7	300	7.29	50.3
18.000	122	121	5.817	0.600	4.550	4.525	0.025	232.7	225	5.11	59.2
16.003	121	123	34.966	0.600	4.525	4.375	0.150	233.1	225	5.80	56.0
16.002	123	124	41.106	0.600	4.375	4.225	0.150	274.0	225	6.67	52.5
17.000	124	125	6.398	0.600	4.225	4.200	0.025	255.9	225	6.80	52.0
16.001	126	124	14.494	0.600	4.400	4.300	0.100	144.9	225	6.07	54.8
16.000	127	126	26.942	0.600	4.950	4.400	0.550	49.0	225	5.84	55.8
20.001	119 - PP	119	4.161	0.600	4.725	4.675	0.050	83.2	225	5.05	59.5
20.000	118 - PP	118	4.271	0.600	4.500	4.475	0.025	170.8	225	5.07	59.4
19.000	119	118	39.908	0.600	4.675	4.475	0.200	199.5	225	6.67	52.5
21.001	129	128	33.918	0.600	4.109	3.875	0.234	144.9	225	6.03	55.0
21.000	130	129	31.158	0.600	4.500	4.184	0.316	98.6	150	5.51	57.3
22.000	129 - PP	129	4.682	0.600	4.125	4.109	0.016	292.6	225	5.10	59.2
32.007	96	95	7.078	0.600	3.290	3.260	0.030	235.9	375	7.06	51.0
32.006	97	96	6.054	0.600	3.320	3.290	0.030	201.8	375	6.96	51.4
32.005	98	97	6.645	0.600	3.350	3.320	0.030	221.5	375	6.88	51.7
32.004	103	98	23.725	0.600	3.450	3.350	0.100	237.3	375	6.79	52.0
36.003	99	113	62.022	0.600	3.575	3.400	0.175	354.4	300	7.52	49.5
36.002	100	99	37.725	0.600	3.750	3.575	0.175	215.6	300	6.28	54.0
36.001	101	100	34.800	0.600	4.375	3.825	0.550	63.3	225	5.69	56.5
36.000	102	101	30.284	0.600	4.775	4.375	0.400	75.7	225	5.34	58.1
32.003	104	103	22.068	0.600	3.787	3.525	0.262	84.2	300	6.45	53.3
32.002	107	104	32.110	0.600	4.225	3.862	0.363	88.5	225	6.24	54.1
35.000	104 - PP	104	3.723	0.600	3.875	3.862	0.013	286.4	225	5.08	59.3
34.001	105	104	17.199	0.600	4.025	3.862	0.163	105.5	225	5.64	56.7
34.000	106	105	31.427	0.600	4.325	4.025	0.300	104.8	225	5.41	57.7
32.001	108	107	21.070	0.600	4.425	4.225	0.200	105.4	225	5.85	55.7
33.000	110	108	23.976	0.600	4.650	4.500	0.150	159.8	150	5.50	57.3
32.000	109	108	33.134	0.600	4.800	4.500	0.300	110.4	150	5.58	57.0
1.021	38	37	3.381	0.600	3.933	3.929	0.004	845.3	450	12.19	38.2
12.009	82	38	13.988	0.600	4.456	4.158	0.298	46.9	225	5.28	58.4
1.020	39	38	16.770	0.600	3.953	3.933	0.020	838.5	450	12.11	38.4
1.019	40	39	18.598	0.600	3.975	3.953	0.022	845.4	450	11.70	39.1
1.018	41	40	15.658	0.600	4.025	3.975	0.050	313.2	450	11.26	40.0
1.017	42	41	27.069	0.600	4.175	4.025	0.150	180.5	450	11.03	40.4
1.016	43	42	23.234	0.600	4.229	4.175	0.054	430.3	450	10.73	41.1
1.012	47	43	29.046	0.600	4.368	4.229	0.139	209.0	450	10.33	41.9
1.011	48	47	36.362	0.600	4.419	4.368	0.051	713.0	450	9.99	42.7
8.002	71	48	16.469	0.600	5.100	5.000	0.100	164.7	225	6.14	54.5
1.010	49	48	16.213	0.600	4.442	4.419	0.023	704.9	450	9.18	44.7
1.009	50	49	18.438	0.600	4.468	4.442	0.026	709.2	450	8.82	45.6
1.008	51	50	29.889	0.600	4.510	4.468	0.042	711.6	450	8.42	46.7
7.000	52	51	6.786	0.600	4.950	4.810	0.140	48.5	150	5.08	59.3
1.007	53	51	23.463	0.600	4.626	4.585	0.041	572.3	375	7.76	48.7



Links (Input)

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)
1.006	54	53	20.403	0.600	4.662	4.626	0.036	566.8	375	7.24	50.4
1.005	55	54	25.804	0.600	4.708	4.662	0.046	561.0	375	6.78	52.0
6.000	56	55	5.061	0.600	4.875	4.858	0.017	297.7	225	5.11	59.2
4.005	64	55	23.635	0.600	4.900	4.783	0.117	202.0	300	6.22	54.2
1.004	57	55	32.629	0.600	5.075	4.858	0.217	150.4	225	5.51	57.3
1.003	58	119	22.483	0.600	4.800	4.675	0.125	179.9	225	5.95	55.3
1.002	59	58	22.024	0.600	5.000	4.800	0.200	110.1	225	5.56	57.0
3.000	63	59	15.766	0.600	5.225	5.075	0.150	105.1	150	5.27	58.4
1.001	60	127	36.111	0.600	5.220	4.950	0.270	133.7	225	5.60	56.8
2.000	61	60	5.219	0.600	5.375	5.295	0.080	65.2	150	5.07	59.4
4.004	65	64	33.416	0.600	4.980	4.900	0.080	417.7	300	5.86	55.7
5.000	66	65	5.895	0.600	5.075	5.055	0.020	294.7	225	5.13	59.1
4.003	67	65	9.677	0.600	5.175	5.055	0.120	80.6	225	5.11	59.2
8.001	72	71	31.662	0.600	5.275	5.100	0.175	180.9	225	5.87	55.7
8.000	73	72	20.130	0.600	5.400	5.275	0.125	161.0	225	5.33	58.1
9.004	75	43	19.833	0.600	4.800	4.379	0.421	47.1	300	6.23	54.2
11.000	76	75	5.283	0.600	5.000	4.950	0.050	105.7	150	5.09	59.3
9.003	77	75	16.503	0.600	4.950	4.875	0.075	220.0	225	6.08	54.8
9.002	78	77	16.602	0.600	5.100	4.950	0.150	110.7	225	5.77	56.1
10.000	79	78	6.115	0.600	5.225	5.175	0.050	122.3	150	5.11	59.2
9.001	80	78	14.276	0.600	5.300	5.175	0.125	114.2	150	5.55	57.1
9.000	81	80	18.408	0.600	5.500	5.300	0.200	92.0	150	5.29	58.3
12.008	84	82	12.064	0.600	4.575	4.456	0.119	101.4	225	5.15	58.9
15.000	83	82	5.686	0.600	4.475	4.456	0.019	299.3	225	5.13	59.1
12.007	85	86	9.912	0.600	4.600	4.560	0.040	250.0	225	5.20	58.7
12.006	86	88	24.324	0.600	4.560	4.463	0.097	250.0	225	5.69	56.4
12.005	88	89	14.826	0.600	4.463	4.404	0.059	250.0	225	5.99	55.1
14.000	87	86	6.734	0.600	4.600	4.560	0.040	168.4	225	5.11	59.2
12.004	89	N8	10.518	0.600	4.404	4.250	0.154	68.3	300	6.82	51.9
12.003	91	89	28.637	0.600	4.550	4.404	0.146	196.1	225	6.73	52.2
13.000	90	89	7.078	0.600	4.450	4.404	0.046	153.9	225	5.11	59.2
12.002	92	91	25.160	0.600	4.750	4.550	0.200	125.8	225	6.22	54.2
12.001	93	92	17.545	0.600	4.900	4.750	0.150	117.0	225	5.86	55.7
4.000	70	93	20.651	0.600	5.100	4.900	0.200	103.3	225	5.62	56.8
4.001	69	70	11.092	0.600	5.300	5.100	0.200	55.5	225	5.35	58.0
4.002	68	69	15.360	0.600	5.400	5.300	0.100	153.6	225	5.24	58.5
12.000	94	93	39.671	0.600	5.200	4.900	0.300	132.2	225	5.58	56.9
38.000	36	35	7.034	0.600	4.150	4.110	0.040	175.8	150	5.16	58.9
23.008	8	7	5.439	0.600	3.319	3.312	0.007	777.1	525	8.76	45.8
27.006	21	8	13.394	0.600	3.527	3.469	0.058	230.9	375	7.71	48.9
23.007	9	8	14.926	0.600	3.496	3.469	0.027	552.8	375	8.65	46.1
26.000	10	9	4.978	0.600	3.800	3.721	0.079	63.0	150	5.07	59.4
23.006	11	9	13.100	0.600	3.602	3.571	0.031	422.6	300	8.32	47.0
23.005	12	11	30.072	0.600	3.672	3.602	0.070	429.6	300	8.03	47.9
23.004	13	12	33.501	0.600	3.750	3.672	0.078	429.5	300	7.37	50.0
25.001	19	13	30.705	0.600	4.075	3.825	0.250	122.8	225	5.84	55.8
23.003	14	13	40.811	0.600	4.124	3.825	0.299	136.5	225	6.63	52.6
23.002	15	14	14.736	0.600	4.174	4.124	0.050	294.7	225	6.02	55.0
23.001	16	15	13.320	0.600	4.324	4.249	0.075	177.6	150	5.69	56.4
24.000	17	16	4.530	0.600	4.600	4.574	0.026	174.2	150	5.10	59.2
23.000	18	16	17.886	0.600	4.425	4.324	0.101	177.1	150	5.40	57.8
25.000	20	19	28.345	0.600	4.300	4.075	0.225	126.0	225	5.41	57.7
27.005	22	21	27.394	0.600	3.575	3.527	0.048	570.7	375	7.52	49.5



Links (Input)

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)
27.004	23	22	18.831	0.600	3.609	3.575	0.034	553.8	375	6.91	51.6
30.000	32	23	26.858	0.600	3.875	3.759	0.116	231.5	225	5.52	57.2
31.000	31	23	4.618	0.600	3.775	3.759	0.016	288.6	225	5.10	59.2
27.003	24	23	28.099	0.600	3.900	3.684	0.216	130.1	300	6.50	53.1
27.002	25	24	25.123	0.600	4.003	3.900	0.103	243.9	300	6.16	54.5
28.001	28	25	18.176	0.600	4.139	4.078	0.061	298.0	225	5.74	56.2
27.001	26	25	21.292	0.600	4.475	4.078	0.397	53.6	225	5.53	57.2
27.000	27	26	26.495	0.600	4.750	4.475	0.275	96.3	225	5.33	58.1
29.000	29	28	4.819	0.600	4.300	4.214	0.086	56.0	150	5.06	59.4
28.000	30	28	15.293	0.600	4.300	4.214	0.086	177.8	150	5.34	58.1
37.001	5	4	3.090	0.600	2.833	2.822	0.011	280.9	225	5.17	58.9
37.000	6	5	4.811	0.600	2.850	2.833	0.017	283.0	225	5.10	59.2
39.001	2	1	2.527	0.600	3.635	3.626	0.009	280.7	225	5.15	59.0
39.000	3	2	4.365	0.600	3.650	3.635	0.015	291.0	225	5.10	59.2

Simulation Settings

Rainfall Methodology	FSR	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	240
M5-60 (mm)	17.000	Additional Storage (m³/ha)	21.0
Ratio-R	0.400	Check Discharge Rate(s)	x
Winter CV	1.000	Check Discharge Volume	x
Analysis Speed	Detailed		

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	0	0	0
30	0	0	0
100	40	0	0
100	40	10	0

Node 1 Surcharged Outfall

Overrides Design Area	x	Depression Storage Area (m²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		

Applies to All storms

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
0	0.000	360	0.200	720	0.225	1080	0.225	1440	0.225
120	0.000	480	0.225	840	0.225	1200	0.225		
240	0.100	600	0.225	960	0.225	1320	0.225		

Node 4 Surcharged Outfall

Overrides Design Area	x	Depression Storage Area (m²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		

Applies to All storms



Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
0	0.000	360	0.300	720	0.575	1080	0.575	1440	0.575
120	0.100	480	0.400	840	0.575	1200	0.575		
240	0.200	600	0.500	960	0.575	1320	0.575		

Node 95 Surcharged Outfall

Overrides Design Area	x	Depression Storage Area (m ²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		
Applies to All storms					

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
0	0.000	360	0.200	720	0.225	1080	0.225	1440	0.225
120	0.000	480	0.225	840	0.225	1200	0.225		
240	0.100	600	0.225	960	0.225	1320	0.225		

Node 111 Surcharged Outfall

Overrides Design Area	x	Depression Storage Area (m ²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		
Applies to All storms					

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
0	0.000	360	0.200	720	0.350	1080	0.350	1440	0.350
120	0.000	480	0.300	840	0.350	1200	0.350		
240	0.100	600	0.350	960	0.350	1320	0.350		

Node N8 Online Orifice Control

Flap Valve	x	Invert Level (m)	3.705	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.300		

Node 2 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	3.635	Product Number	CTL-SHE-0089-4000-1415-4000
Design Depth (m)	1.415	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	4.0	Min Node Diameter (mm)	1200

Node 5 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	2.833	Product Number	CTL-SHE-0084-4000-1767-4000
Design Depth (m)	1.767	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	4.0	Min Node Diameter (mm)	1200



Node 96 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	3.290	Product Number	CTL-SHE-0095-4000-1010-4000
Design Depth (m)	1.010	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	4.0	Min Node Diameter (mm)	1200

Node 112 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	3.280	Product Number	CTL-SHE-0090-4000-1320-4000
Design Depth (m)	1.320	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	4.0	Min Node Diameter (mm)	1200

Node N4 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	4.091	Product Number	CTL-SHE-0051-1000-0709-1000
Design Depth (m)	0.709	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.0	Min Node Diameter (mm)	1200

Node 10 Online Orifice Control

Flap Valve	x	Invert Level (m)	3.800	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.060		

Node 31 Online Orifice Control

Flap Valve	x	Invert Level (m)	3.775	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.070		

Node 32 Online Orifice Control

Flap Valve	x	Invert Level (m)	3.875	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.070		

Node 17 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.600	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.050		

Node 18 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.425	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.050		

Node 29 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.300	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.050		



Node 30 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.300	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.050		

Node 83 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.475	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.060		

Node 87 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.600	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.060		

Node 90 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.450	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.060		

Node 76 Online Orifice Control

Flap Valve	x	Invert Level (m)	5.000	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.080		

Node 79 Online Orifice Control

Flap Valve	x	Invert Level (m)	5.225	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.080		

Node 81 Online Orifice Control

Flap Valve	x	Invert Level (m)	5.500	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.080		

Node 52 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.950	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.070		

Node 56 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.875	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.065		

Node 66 Online Orifice Control

Flap Valve	x	Invert Level (m)	5.075	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.070		

Node 68 Online Orifice Control

Flap Valve	x	Invert Level (m)	5.400	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.070		



Node 61 Online Orifice Control

Flap Valve	x	Invert Level (m)	5.375	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.105		

Node 122 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.550	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.100		

Node 106 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.325	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.055		

Node 104 - PP Online Orifice Control

Flap Valve	x	Invert Level (m)	3.875	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.055		

Node 130 Online Orifice Control

Flap Valve	x	Invert Level (m)	4.500	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.055		

Node 129 - PP Online Orifice Control

Flap Valve	x	Invert Level (m)	4.125	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.055		

Node 118 - PP Online Orifice Control

Flap Valve	x	Invert Level (m)	4.500	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.085		

Node 119 - PP Online Orifice Control

Flap Valve	x	Invert Level (m)	4.725	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.085		

Node 7 Online Orifice Control

Flap Valve	x	Invert Level (m)	2.866	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.525		

Node 3 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	55.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	3.650	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.025

Inlets

35 | 37 | N8



Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	598.5	0.0	0.650	942.0	0.0	1.250	1417.0	0.0	1.400	2300.0	0.0

Node 6 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	16.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	2.850	Main Channel Slope (1:X)	1000.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.025

Inlets

7

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	180.0	0.0	1.750	590.0	0.0

Node 36 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	4.150
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	207.0	0.0	0.750	705.0	0.0	0.900	1500.0	0.0

Node 97 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	3.320
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	28.3	0.0	0.490	245.0	0.0	1.030	532.0	0.0

Node 113 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	3.300
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	55.0	0.0	1.300	325.0	0.0	1.450	593.0	0.0

Node 113 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	4.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	135.0	0.0	0.600	370.0	0.0	0.750	803.0	0.0

Node N5 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	4.200
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	63.0	0.0	0.600	166.0	0.0

Node N2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	4.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	33.0	0.0	0.600	270.0	0.0

Node N7 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	4.200
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	245.0	0.0	0.600	490.0	0.0

Node 10 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	3.800	Slope (1:X)	600.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.500
Safety Factor	2.0	Width (m)	6.000	Inf Depth (m)	
Porosity	0.32	Length (m)	137.340		

Node 11 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	3.602	Slope (1:X)	250.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.500
Safety Factor	2.0	Width (m)	16.000	Inf Depth (m)	
Porosity	0.32	Length (m)	23.200		

Node 31 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	3.775	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	47	Depth (m)	0.500
Safety Factor	2.0	Width (m)	6.000	Inf Depth (m)	
Porosity	0.32	Length (m)	48.600		

Node 32 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	3.875	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	56	Depth (m)	0.500
Safety Factor	2.0	Width (m)	6.000	Inf Depth (m)	
Porosity	0.32	Length (m)	48.600		

Node 17 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.600	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	52	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.750		



Node 18 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.425	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	52	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.750		

Node 29 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.300	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	134	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.750		

Node 30 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.300	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	138	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.750		

Node 83 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.475	Slope (1:X)	456.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	68.400		

Node 87 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.600	Slope (1:X)	456.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	112	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	68.400		

Node 90 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.450	Slope (1:X)	456.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	68.400		

Node 76 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	5.000	Slope (1:X)	117.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	46	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.000		

Node 79 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	5.225	Slope (1:X)	117.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	40	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.000		



Node 81 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	5.500	Slope (1:X)	117.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	37	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.000		

Node 52 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.950	Slope (1:X)	600.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	77	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	60.000		

Node 56 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.875	Slope (1:X)	600.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	91	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	60.000		

Node 66 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	5.075	Slope (1:X)	600.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	89	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	60.000		

Node 68 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	5.400	Slope (1:X)	600.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	88	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	60.000		

Node 61 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	5.375	Slope (1:X)	210.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	49	Depth (m)	0.500
Safety Factor	2.0	Width (m)	10.000	Inf Depth (m)	
Porosity	0.32	Length (m)	31.000		

Node 122 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.550	Slope (1:X)	550.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.500
Safety Factor	2.0	Width (m)	15.000	Inf Depth (m)	
Porosity	0.32	Length (m)	62.000		

Node 106 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.325	Slope (1:X)	440.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	96	Depth (m)	0.500
Safety Factor	2.0	Width (m)	6.000	Inf Depth (m)	
Porosity	0.32	Length (m)	157.500		



Node 104 - PP Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	3.875	Slope (1:X)	125.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	254	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	64.500		

Node 130 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.500	Slope (1:X)	120.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	87	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.200		

Node 129 - PP Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.125	Slope (1:X)	120.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	53.200		

Node 118 - PP Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.500	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	46	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	55.500		

Node 119 - PP Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	4.725	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	37	Depth (m)	0.500
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.32	Length (m)	55.500		

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	130	25	4.685	0.185	8.4	3.8914	0.0000	SURCHARGED
30 minute winter	129 - PP	25	4.312	0.187	8.4	3.9455	0.0000	OK
30 minute winter	129	26	4.159	0.050	4.8	0.0569	0.0000	OK
1440 minute winter	128	1020	4.022	0.147	1.2	0.1658	0.0000	OK
30 minute winter	127	25	4.995	0.045	6.6	0.0512	0.0000	OK
30 minute winter	126	26	4.462	0.062	6.6	0.0698	0.0000	OK
480 minute winter	N7	464	4.308	0.108	3.3	28.8489	0.0000	OK
480 minute winter	N6	456	4.308	0.171	2.9	0.0000	0.0000	OK
480 minute winter	N5	464	4.308	0.204	14.2	7.9382	0.0000	OK
480 minute winter	N4	464	4.308	0.217	1.3	0.2452	0.0000	OK
480 minute winter	N3	464	4.030	0.027	1.0	0.0000	0.0000	OK
1440 minute winter	N2	1020	4.022	0.182	1.2	0.9177	0.0000	OK
1440 minute winter	N1	1020	4.022	0.212	1.2	0.0000	0.0000	OK
240 minute winter	125	220	4.322	0.122	13.0	0.1383	0.0000	OK
60 minute winter	124	54	4.311	0.086	8.8	0.0970	0.0000	OK
60 minute winter	123	49	4.417	0.042	2.4	0.0472	0.0000	OK
60 minute winter	122	46	4.624	0.074	8.0	7.5258	0.0000	OK
60 minute winter	121	47	4.565	0.040	2.4	0.0456	0.0000	OK
30 minute winter	119 - PP	23	4.906	0.181	12.4	4.4542	0.0000	OK
15 minute winter	119	12	4.788	0.113	18.0	0.1277	0.0000	OK
30 minute winter	118 - PP	24	4.682	0.182	12.5	4.7038	0.0000	OK
15 minute winter	118	12	4.503	0.103	22.7	0.1160	0.0000	OK
15 minute winter	117	12	4.250	0.139	31.7	0.4728	0.0000	OK
1440 minute winter	116	1020	4.022	0.495	4.2	0.7294	0.0000	SURCHARGED
1440 minute winter	115	1020	4.022	0.540	4.3	0.7891	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)
30 minute winter	130	21.000	129	2.4	0.706	0.135	0.1068	
30 minute winter	129 - PP	22.000	129	2.4	0.379	0.078	0.0293	
30 minute winter	129	21.001	128	4.8	0.653	0.111	0.2490	
1440 minute winter	128	21.002	114	1.2	0.418	0.034	0.3424	
30 minute winter	127	16.000	126	6.6	0.922	0.089	0.1953	
30 minute winter	126	16.001	124	6.6	0.774	0.154	0.1244	
480 minute winter	N7	14.000_1	N6	-2.8	-0.218	-0.087	0.4050	
480 minute winter	N6	14.001	N5	-2.9	-0.116	-0.090	0.2895	
480 minute winter	N5	12.006_1	N4	1.3	0.193	0.040	0.1299	
480 minute winter	N4	Hydro-Brake®	N3	1.0				
480 minute winter	N3	12.008_1	N2	1.0	0.313	0.017	1.3801	
1440 minute winter	N2	12.009_1	N1	1.2	0.343	0.021	0.5495	
1440 minute winter	N1	12.010	116	1.2	0.205	0.016	3.6590	
240 minute winter	125	12.005_1	N5	15.4	0.664	0.181	0.1058	
60 minute winter	124	17.000	125	9.6	0.946	0.298	0.1045	
60 minute winter	123	16.002	124	2.4	0.294	0.076	0.3883	
60 minute winter	122	18.000	121	2.4	0.478	0.070	0.0290	
60 minute winter	121	16.003	123	2.4	0.484	0.071	0.1726	
30 minute winter	119 - PP	20.001	119	5.5	0.628	0.096	0.0508	
15 minute winter	119	19.000	118	17.8	0.911	0.485	0.7790	
30 minute winter	118 - PP	20.000	118	5.3	0.663	0.133	0.0341	
15 minute winter	118	19.001	117	22.5	0.861	0.257	1.2269	
15 minute winter	117	16.006	116	31.3	1.022	0.402	0.6879	
1440 minute winter	116	16.007	115	4.1	0.333	0.072	1.1929	
1440 minute winter	115	16.008	114	4.3	0.341	0.075	1.4975	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	114	1020	4.022	0.672	5.6	1.1524	0.0000	SURCHARGED
1440 minute winter	113	1020	4.022	0.722	7.4	98.1636	0.0000	SURCHARGED
1440 minute winter	112	1020	4.021	0.741	4.0	1.0611	0.0000	SURCHARGED
480 minute winter	111	608	3.600	0.350	4.0	0.0000	0.0000	OK
15 minute winter	110	11	4.726	0.076	7.1	0.1924	0.0000	OK
15 minute winter	109	11	4.868	0.068	7.1	0.1713	0.0000	OK
15 minute winter	108	11	4.529	0.104	20.5	0.2511	0.0000	OK
15 minute winter	107	11	4.323	0.098	20.6	0.1105	0.0000	OK
60 minute winter	106	49	4.471	0.146	9.9	9.6691	0.0000	OK
60 minute winter	105	51	4.057	0.032	2.1	0.0361	0.0000	OK
60 minute winter	104 - PP	46	4.144	0.269	10.0	8.2645	0.0000	SURCHARGED
15 minute winter	104	11	3.882	0.095	24.5	0.1074	0.0000	OK
960 minute winter	103	600	3.634	0.184	4.4	0.3372	0.0000	OK
15 minute winter	102	10	4.836	0.061	9.9	0.1775	0.0000	OK
15 minute winter	101	11	4.460	0.085	19.6	0.2318	0.0000	OK
1440 minute winter	100	1020	4.022	0.272	1.5	0.6700	0.0000	OK
1440 minute winter	99	1020	4.022	0.447	1.9	1.1196	0.0000	SURCHARGED
960 minute winter	98	600	3.634	0.284	4.5	0.5204	0.0000	OK
960 minute winter	97	600	3.634	0.314	4.5	31.1375	0.0000	OK
960 minute winter	96	600	3.634	0.344	3.7	0.7468	0.0000	OK
360 minute winter	95	488	3.485	0.225	4.0	0.0000	0.0000	OK
15 minute winter	94	10	5.256	0.056	6.5	0.1132	0.0000	OK
15 minute winter	93	11	4.989	0.089	14.6	0.1817	0.0000	OK
15 minute winter	92	11	4.838	0.088	14.5	0.0997	0.0000	OK
15 minute winter	91	12	4.651	0.101	14.3	0.1139	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)
1440 minute winter	114	16.009	113	5.5	0.298	0.034	0.8139	
1440 minute winter	113	16.010	112	4.0	0.176	0.033	0.6146	
1440 minute winter	112	Hydro-Brake®	111	4.0				277.4
15 minute winter	110	33.000	108	6.9	0.781	0.490	0.2107	
15 minute winter	109	32.000	108	6.8	0.901	0.406	0.2520	
15 minute winter	108	32.001	107	20.6	1.198	0.407	0.3640	
15 minute winter	107	32.002	104	20.5	1.271	0.371	0.5178	
60 minute winter	106	34.000	105	2.1	0.628	0.042	0.1069	
60 minute winter	105	34.001	104	2.1	0.630	0.042	0.0583	
60 minute winter	104 - PP	35.000	104	3.0	0.501	0.097	0.0220	
15 minute winter	104	32.003	103	24.4	1.320	0.201	0.4079	
960 minute winter	103	32.004	98	4.3	0.342	0.033	1.7006	
15 minute winter	102	36.000	101	9.7	0.875	0.162	0.3374	
15 minute winter	101	36.001	100	19.2	1.418	0.293	0.4700	
1440 minute winter	100	36.002	99	1.3	0.266	0.018	2.5934	
1440 minute winter	99	36.003	113	1.8	0.259	0.031	4.3675	
960 minute winter	98	32.005	97	4.5	0.418	0.033	0.6251	
960 minute winter	97	32.006	96	3.5	0.183	0.025	0.6190	
960 minute winter	96	Hydro-Brake®	95	3.7				105.1
15 minute winter	94	12.000	93	6.3	0.586	0.139	0.4408	
15 minute winter	93	12.001	92	14.5	1.004	0.302	0.2536	
15 minute winter	92	12.002	91	14.3	0.920	0.310	0.3945	
15 minute winter	91	12.003	89	14.4	0.974	0.390	0.4252	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	90	47	4.583	0.133	8.0	6.9485	0.0000	OK
1440 minute winter	N8	1110	4.165	0.460	3.4	0.5201	0.0000	OK
15 minute winter	89	12	4.483	0.079	18.3	0.0898	0.0000	OK
60 minute winter	88	48	4.503	0.040	2.3	0.0456	0.0000	OK
60 minute winter	87	47	4.733	0.133	8.0	6.9776	0.0000	OK
60 minute winter	86	47	4.601	0.041	2.3	0.0463	0.0000	OK
60 minute winter	85	48	4.601	0.001	0.0	0.0011	0.0000	OK
15 minute winter	84	1	4.575	0.000	0.0	0.0000	0.0000	OK
60 minute winter	83	45	4.581	0.106	5.5	4.4048	0.0000	OK
60 minute winter	82	46	4.481	0.025	2.0	0.0286	0.0000	OK
30 minute winter	81	23	5.679	0.179	10.4	3.6666	0.0000	SURCHARGED
30 minute winter	80	24	5.357	0.057	4.7	0.0643	0.0000	OK
30 minute winter	79	23	5.406	0.181	10.4	3.7416	0.0000	SURCHARGED
30 minute winter	78	24	5.168	0.068	9.4	0.0770	0.0000	OK
30 minute winter	77	24	5.033	0.083	9.4	0.0936	0.0000	OK
30 minute winter	76	23	5.179	0.179	10.4	3.7444	0.0000	SURCHARGED
30 minute winter	75	24	4.861	0.061	14.1	0.0694	0.0000	OK
15 minute winter	73	10	5.456	0.056	5.7	0.1149	0.0000	OK
15 minute winter	72	11	5.359	0.084	12.0	0.1886	0.0000	OK
15 minute winter	71	11	5.211	0.111	18.0	0.2436	0.0000	OK
60 minute winter	70	47	5.137	0.037	3.0	0.0416	0.0000	OK
60 minute winter	69	46	5.332	0.032	3.0	0.0359	0.0000	OK
60 minute winter	68	46	5.528	0.128	9.4	8.0102	0.0000	OK
15 minute winter	67	1	5.175	0.000	0.0	0.0000	0.0000	OK
60 minute winter	66	46	5.205	0.130	9.4	8.1200	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	90	13.000	89	2.3	0.426	0.056	0.0490	
1440 minute winter	N8	Flow through pond	3	8.5	0.022	0.000	354.7710	
15 minute winter	89	12.004	N8	18.0	1.277	0.134	0.1486	
60 minute winter	88	12.005	89	2.3	0.396	0.071	0.1071	
60 minute winter	87	14.000	86	2.3	0.493	0.058	0.0316	
60 minute winter	86	12.006	88	2.3	0.476	0.071	0.1183	
60 minute winter	85	12.007	86	0.0	-0.005	0.000	0.0245	
15 minute winter	84	12.008	82	0.0	0.000	0.000	0.0142	
60 minute winter	83	15.000	82	2.0	0.570	0.065	0.0197	
60 minute winter	82	12.009	38	2.0	0.814	0.026	0.0336	
30 minute winter	81	9.000	80	4.7	0.818	0.256	0.1069	
30 minute winter	80	9.001	78	4.7	0.796	0.286	0.0851	
30 minute winter	79	10.000	78	4.7	0.755	0.290	0.0377	
30 minute winter	78	9.002	77	9.4	0.807	0.190	0.1939	
30 minute winter	77	9.003	75	9.4	0.732	0.269	0.2117	
30 minute winter	76	11.000	75	4.7	0.792	0.270	0.0311	
30 minute winter	75	9.004	43	14.0	1.395	0.087	0.1997	
15 minute winter	73	8.000	72	5.6	0.532	0.136	0.2121	
15 minute winter	72	8.001	71	11.7	0.718	0.304	0.5220	
15 minute winter	71	8.002	48	17.9	0.960	0.443	0.3071	
60 minute winter	70	4.000	93	3.0	0.654	0.058	0.1446	
60 minute winter	69	4.001	70	3.0	0.789	0.043	0.0422	
60 minute winter	68	4.002	69	3.0	0.701	0.071	0.0659	
15 minute winter	67	4.003	65	0.0	0.000	0.000	0.0000	
60 minute winter	66	5.000	65	2.9	0.499	0.097	0.0344	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	65	47	5.029	0.049	2.9	0.0557	0.0000	OK
60 minute winter	64	48	4.940	0.040	2.9	0.0452	0.0000	OK
15 minute winter	63	10	5.288	0.063	6.1	0.1441	0.0000	OK
30 minute winter	61	24	5.520	0.145	17.9	7.9016	0.0000	OK
30 minute winter	60	24	5.281	0.061	6.6	0.0693	0.0000	OK
15 minute winter	59	10	5.069	0.069	10.2	0.1263	0.0000	OK
15 minute winter	58	11	4.894	0.094	13.4	0.1554	0.0000	OK
15 minute winter	57	11	5.150	0.075	10.2	0.2225	0.0000	OK
60 minute winter	56	47	5.010	0.135	9.5	8.5475	0.0000	OK
15 minute winter	55	11	4.812	0.104	13.4	0.1481	0.0000	OK
15 minute winter	54	12	4.766	0.104	13.3	0.1488	0.0000	OK
15 minute winter	53	13	4.727	0.101	13.2	0.1451	0.0000	OK
60 minute winter	52	46	5.077	0.127	9.5	7.9520	0.0000	OK
15 minute winter	51	13	4.636	0.126	15.7	0.1809	0.0000	OK
15 minute winter	50	13	4.620	0.152	18.8	0.3291	0.0000	OK
15 minute winter	49	13	4.609	0.167	22.1	0.3500	0.0000	OK
15 minute winter	48	13	4.598	0.179	41.0	0.3688	0.0000	OK
15 minute winter	47	13	4.509	0.141	47.9	0.3619	0.0000	OK
15 minute winter	43	13	4.439	0.210	66.8	0.6220	0.0000	OK
15 minute winter	42	13	4.352	0.177	71.4	0.4775	0.0000	OK
15 minute winter	41	13	4.285	0.260	75.6	0.7020	0.0000	OK
15 minute winter	40	13	4.260	0.285	78.9	0.7762	0.0000	OK
15 minute winter	39	14	4.220	0.267	78.2	0.4724	0.0000	OK
15 minute winter	38	14	4.168	0.235	79.8	0.4158	0.0000	OK
1440 minute winter	37	1140	4.165	0.460	10.6	0.8125	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	65	4.004	64	2.9	0.447	0.054	0.2185	
60 minute winter	64	4.005	55	2.9	0.531	0.037	0.1297	
15 minute winter	63	3.000	59	5.9	0.871	0.340	0.1071	
30 minute winter	61	2.000	60	6.6	1.029	0.302	0.0337	
30 minute winter	60	1.001	127	6.6	0.928	0.148	0.2600	
15 minute winter	59	1.002	58	10.0	0.781	0.202	0.2839	
15 minute winter	58	1.003	119	13.5	0.775	0.349	0.3948	
15 minute winter	57	1.004	55	9.9	0.865	0.233	0.3718	
60 minute winter	56	6.000	55	2.6	0.483	0.088	0.0275	
15 minute winter	55	1.005	54	13.3	0.546	0.159	0.6389	
15 minute winter	54	1.006	53	13.2	0.552	0.158	0.4941	
15 minute winter	53	1.007	51	12.9	0.628	0.156	0.4846	
60 minute winter	52	7.000	51	3.1	0.949	0.120	0.0220	
15 minute winter	51	1.008	50	15.9	0.423	0.133	1.2501	
15 minute winter	50	1.009	49	19.5	0.426	0.163	0.9304	
15 minute winter	49	1.010	48	23.1	0.451	0.192	0.9132	
15 minute winter	48	1.011	47	40.8	0.808	0.341	1.8428	
15 minute winter	47	1.012	43	47.5	0.830	0.213	1.6713	
15 minute winter	43	1.016	42	67.3	1.032	0.435	1.5155	
15 minute winter	42	1.017	41	71.5	0.940	0.298	2.0662	
15 minute winter	41	1.018	40	74.8	0.745	0.411	1.5719	
15 minute winter	40	1.019	39	78.2	0.769	0.712	1.8954	
15 minute winter	39	1.020	38	78.0	0.857	0.707	1.5260	
15 minute winter	38	1.021	37	79.9	1.066	0.727	0.2536	
1440 minute winter	37	Flow through pond	3	8.5	0.022	0.000	354.7710	



Results for 1 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	36	132	4.169	0.019	1.4	4.1864	0.0000	OK
1440 minute winter	35	1140	4.165	0.460	0.3	0.5199	0.0000	OK
30 minute winter	32	24	4.062	0.187	9.8	3.8492	0.0000	OK
30 minute winter	31	24	3.962	0.187	9.8	3.9135	0.0000	OK
30 minute winter	30	26	4.520	0.220	8.8	4.3523	0.0000	SURCHARGED
30 minute winter	29	26	4.518	0.218	8.8	4.3014	0.0000	SURCHARGED
30 minute winter	28	27	4.199	0.060	4.4	0.0681	0.0000	OK
15 minute winter	27	10	4.804	0.054	6.8	0.1261	0.0000	OK
15 minute winter	26	11	4.542	0.067	13.5	0.1588	0.0000	OK
15 minute winter	25	11	4.123	0.120	22.2	0.2094	0.0000	OK
15 minute winter	24	11	4.014	0.114	27.8	0.1997	0.0000	OK
15 minute winter	23	12	3.784	0.175	34.1	0.2508	0.0000	OK
15 minute winter	22	12	3.743	0.168	33.9	0.2407	0.0000	OK
15 minute winter	21	12	3.665	0.138	34.0	0.1975	0.0000	OK
15 minute winter	20	10	4.354	0.054	6.0	0.1180	0.0000	OK
15 minute winter	19	10	4.152	0.077	11.8	0.1685	0.0000	OK
30 minute winter	18	24	4.576	0.151	5.0	2.0834	0.0000	SURCHARGED
30 minute winter	17	24	4.752	0.152	5.0	2.0938	0.0000	SURCHARGED
30 minute winter	16	25	4.378	0.054	3.5	0.0615	0.0000	OK
15 minute winter	15	11	4.257	0.083	8.0	0.1441	0.0000	OK
15 minute winter	14	11	4.208	0.084	13.1	0.1499	0.0000	OK
15 minute winter	13	11	3.920	0.170	31.0	0.3569	0.0000	OK
15 minute winter	12	12	3.841	0.169	36.5	0.3571	0.0000	OK
30 minute winter	11	24	3.734	0.132	33.1	10.3512	0.0000	OK
60 minute winter	10	48	3.913	0.113	8.3	7.7647	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)
180 minute winter	36	38.000	35	0.5	0.352	0.034	0.0092	
1440 minute winter	35	Flow through pond	3	8.5	0.022	0.000	354.7710	
30 minute winter	32	30.000	23	3.8	0.569	0.111	0.1774	
30 minute winter	31	31.000	23	3.7	0.532	0.122	0.0323	
30 minute winter	30	28.000	28	2.2	0.552	0.166	0.0609	
30 minute winter	29	29.000	28	2.2	0.818	0.094	0.0132	
30 minute winter	28	28.001	25	4.4	0.564	0.149	0.1432	
15 minute winter	27	27.000	26	6.7	0.776	0.126	0.2278	
15 minute winter	26	27.001	25	13.2	1.349	0.185	0.2078	
15 minute winter	25	27.002	24	22.3	0.881	0.315	0.6370	
15 minute winter	24	27.003	23	27.7	1.169	0.284	0.6653	
15 minute winter	23	27.004	22	33.9	0.698	0.403	0.9260	
15 minute winter	22	27.005	21	34.0	0.804	0.410	1.1593	
15 minute winter	21	27.006	8	33.5	0.967	0.255	0.4666	
15 minute winter	20	25.000	19	5.8	0.613	0.126	0.2713	
15 minute winter	19	25.001	13	11.7	0.895	0.250	0.4266	
30 minute winter	18	23.000	16	1.8	0.391	0.133	0.0815	
30 minute winter	17	24.000	16	1.8	0.509	0.131	0.0156	
30 minute winter	16	23.001	15	3.5	0.626	0.265	0.0749	
15 minute winter	15	23.002	14	8.0	0.595	0.265	0.1969	
15 minute winter	14	23.003	13	13.2	0.923	0.298	0.6019	
15 minute winter	13	23.004	12	30.4	0.743	0.572	1.3708	
15 minute winter	12	23.005	11	35.8	1.194	0.674	0.9594	
30 minute winter	11	23.006	9	20.8	0.786	0.389	0.3474	
60 minute winter	10	26.000	9	2.1	0.773	0.095	0.0137	



Results for 1 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	9	24	3.628	0.132	22.9	0.1891	0.0000	OK
1440 minute winter	8	1020	3.586	0.267	7.9	0.4711	0.0000	OK
1440 minute winter	7	1020	3.586	0.720	10.0	1.2721	0.0000	OK
1440 minute winter	6	1020	3.585	0.735	5.0	1.2466	0.0000	SURCHARGED
1440 minute winter	5	1020	3.585	0.752	3.1	0.8507	0.0000	SURCHARGED
600 minute winter	4	735	3.397	0.575	3.3	0.0000	0.0000	OK
1440 minute winter	3	1140	4.165	0.515	9.3	1.4236	0.0000	SURCHARGED
1440 minute winter	2	1140	4.164	0.529	3.8	0.9351	0.0000	SURCHARGED
360 minute winter	1	488	3.851	0.225	3.8	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)
30 minute winter	9	23.007	8	22.8	0.754	0.271	0.4536	
1440 minute winter	8	23.008	7	7.9	0.522	0.046	0.6079	
1440 minute winter	7	Flow through pond	6	4.7	0.013	0.000	193.0492	
1440 minute winter	6	37.000	5	3.1	0.159	0.102	0.1913	
1440 minute winter	5	37.001	4	3.1	0.079	0.102	0.1229	144.1
1440 minute winter	3	39.000	2	3.8	0.108	0.126	0.1736	
1440 minute winter	2	39.001	1	3.8	0.222	0.123	0.0998	231.9

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	130	48	4.839	0.339	13.7	12.1426	0.0000	SURCHARGED
60 minute winter	129 - PP	48	4.466	0.341	13.7	12.2687	0.0000	SURCHARGED
720 minute winter	129	705	4.389	0.280	3.9	0.3171	0.0000	SURCHARGED
720 minute winter	128	705	4.389	0.514	3.9	0.5818	0.0000	SURCHARGED
30 minute winter	127	27	5.007	0.057	10.5	0.0642	0.0000	OK
720 minute winter	126	720	4.487	0.087	4.5	0.0979	0.0000	OK
720 minute winter	N7	720	4.487	0.287	5.6	87.2741	0.0000	SURCHARGED
720 minute winter	N6	720	4.487	0.350	5.0	0.0000	0.0000	SURCHARGED
720 minute winter	N5	720	4.487	0.383	16.7	25.3617	0.0000	SURCHARGED
720 minute winter	N4	720	4.487	0.396	1.3	0.4473	0.0000	SURCHARGED
720 minute winter	N3	705	4.390	0.387	1.0	0.0000	0.0000	SURCHARGED
720 minute winter	N2	705	4.390	0.550	4.3	43.1215	0.0000	SURCHARGED
720 minute winter	N1	705	4.390	0.580	3.1	0.0000	0.0000	SURCHARGED
720 minute winter	125	720	4.487	0.287	16.5	0.3241	0.0000	SURCHARGED
720 minute winter	124	720	4.487	0.262	7.1	0.2958	0.0000	SURCHARGED
720 minute winter	123	720	4.487	0.112	2.7	0.1262	0.0000	OK
60 minute winter	122	48	4.669	0.119	19.5	19.2297	0.0000	OK
60 minute winter	121	48	4.584	0.059	5.0	0.0663	0.0000	OK
30 minute winter	119 - PP	26	5.067	0.342	30.4	14.9986	0.0000	SURCHARGED
15 minute winter	119	12	4.870	0.195	37.8	0.2204	0.0000	OK
30 minute winter	118 - PP	26	4.838	0.338	30.7	15.0243	0.0000	SURCHARGED
15 minute winter	118	12	4.547	0.147	43.7	0.1667	0.0000	OK
720 minute winter	117	705	4.390	0.279	11.4	0.9485	0.0000	OK
720 minute winter	116	705	4.390	0.863	12.0	1.2715	0.0000	SURCHARGED
720 minute winter	115	705	4.390	0.908	9.6	1.3268	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)
60 minute winter	130	21.000	129	3.4	0.778	0.191	0.1370	
60 minute winter	129 - PP	22.000	129	3.4	0.415	0.112	0.0801	
720 minute winter	129	21.001	128	3.9	0.577	0.091	1.3490	
720 minute winter	128	21.002	114	3.8	0.513	0.107	0.4242	
30 minute winter	127	16.000	126	10.5	1.041	0.141	0.2727	
720 minute winter	126	16.001	124	4.5	0.694	0.105	0.3571	
720 minute winter	N7	14.000_1	N6	-4.8	-0.180	-0.148	0.6309	
720 minute winter	N6	14.001	N5	-5.0	-0.126	-0.152	0.3283	
720 minute winter	N5	12.006_1	N4	1.3	0.129	0.039	0.1340	
720 minute winter	N4	Hydro-Brake®	N3	1.0				
720 minute winter	N3	12.008_1	N2	1.0	0.289	0.017	4.2968	
720 minute winter	N2	12.009_1	N1	-3.0	0.372	-0.053	0.7907	
720 minute winter	N1	12.010	116	-3.1	0.213	-0.040	4.1688	
720 minute winter	125	12.005_1	N5	16.1	0.565	0.189	0.1435	
720 minute winter	124	17.000	125	11.6	0.715	0.360	0.2545	
720 minute winter	123	16.002	124	2.7	0.255	0.086	1.2209	
60 minute winter	122	18.000	121	5.0	0.582	0.147	0.0498	
60 minute winter	121	16.003	123	5.0	0.597	0.147	0.2924	
30 minute winter	119 - PP	20.001	119	8.0	0.747	0.140	0.1096	
15 minute winter	119	19.000	118	36.7	1.091	1.002	1.3345	
30 minute winter	118 - PP	20.000	118	7.8	0.735	0.196	0.0451	
15 minute winter	118	19.001	117	43.5	0.963	0.496	2.1219	
720 minute winter	117	16.006	116	11.4	0.774	0.146	1.5547	
720 minute winter	116	16.007	115	9.1	0.438	0.160	1.1929	
720 minute winter	115	16.008	114	9.5	0.476	0.166	1.4975	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	114	705	4.389	1.039	13.6	1.7836	0.0000	SURCHARGED
720 minute winter	113	705	4.389	1.089	22.2	267.5034	0.0000	SURCHARGED
720 minute winter	112	705	4.389	1.109	4.1	1.5874	0.0000	SURCHARGED
480 minute winter	111	608	3.600	0.350	4.0	0.0000	0.0000	OK
15 minute winter	110	11	4.832	0.182	17.3	0.4601	0.0000	SURCHARGED
15 minute winter	109	11	4.927	0.127	17.3	0.3221	0.0000	OK
15 minute winter	108	11	4.621	0.196	49.1	0.4717	0.0000	OK
15 minute winter	107	11	4.399	0.174	49.1	0.1971	0.0000	OK
120 minute winter	106	98	4.580	0.255	14.9	28.7598	0.0000	SURCHARGED
120 minute winter	105	100	4.063	0.038	3.0	0.0424	0.0000	OK
60 minute winter	104 - PP	57	4.362	0.487	24.3	25.2885	0.0000	SURCHARGED
360 minute winter	104	384	3.947	0.160	13.1	0.1810	0.0000	OK
360 minute winter	103	384	3.947	0.497	14.1	0.9104	0.0000	SURCHARGED
15 minute winter	102	10	4.873	0.098	24.3	0.2863	0.0000	OK
15 minute winter	101	10	4.521	0.146	48.2	0.3966	0.0000	OK
600 minute winter	100	600	4.389	0.639	6.9	1.5773	0.0000	SURCHARGED
720 minute winter	99	705	4.389	0.814	8.0	2.0416	0.0000	SURCHARGED
360 minute winter	98	384	3.947	0.597	14.6	1.0934	0.0000	SURCHARGED
360 minute winter	97	384	3.947	0.627	14.3	106.3425	0.0000	SURCHARGED
360 minute winter	96	384	3.947	0.657	4.2	1.4258	0.0000	SURCHARGED
360 minute winter	95	488	3.485	0.225	4.0	0.0000	0.0000	OK
15 minute winter	94	10	5.290	0.090	15.9	0.1816	0.0000	OK
15 minute winter	93	11	5.051	0.151	34.3	0.3105	0.0000	OK
15 minute winter	92	11	4.902	0.152	33.8	0.1716	0.0000	OK
15 minute winter	91	11	4.720	0.170	33.8	0.1921	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)
720 minute winter	114	16.009	113	13.5	0.552	0.082	0.8139	190.8
720 minute winter	113	16.010	112	4.1	0.185	0.034	0.6146	
720 minute winter	112	Hydro-Brake®	111	4.0				
15 minute winter	110	33.000	108	16.2	0.935	1.156	0.3939	129.1
15 minute winter	109	32.000	108	16.6	1.072	0.984	0.5165	
15 minute winter	108	32.001	107	49.1	1.412	0.970	0.7350	
15 minute winter	107	32.002	104	48.6	1.535	0.879	1.0203	
120 minute winter	106	34.000	105	3.0	0.689	0.058	0.1347	
120 minute winter	105	34.001	104	3.0	0.692	0.058	0.0734	
60 minute winter	104 - PP	35.000	104	4.1	0.548	0.136	0.0281	
360 minute winter	104	32.003	103	13.1	1.045	0.108	1.1988	
360 minute winter	103	32.004	98	13.6	0.494	0.105	2.6168	
15 minute winter	102	36.000	101	23.9	1.091	0.400	0.6643	
15 minute winter	101	36.001	100	47.9	1.660	0.731	1.1468	
600 minute winter	100	36.002	99	6.7	0.404	0.089	2.6566	
720 minute winter	99	36.003	113	7.9	0.366	0.135	4.3675	
360 minute winter	98	32.005	97	14.3	0.645	0.106	0.7329	
360 minute winter	97	32.006	96	4.0	0.186	0.028	0.6677	
360 minute winter	96	Hydro-Brake®	95	4.0				
15 minute winter	94	12.000	93	15.6	0.729	0.345	0.8548	
15 minute winter	93	12.001	92	33.8	1.189	0.704	0.4990	
15 minute winter	92	12.002	91	33.8	1.114	0.730	0.7627	
15 minute winter	91	12.003	89	33.4	1.242	0.904	0.7708	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	90	57	4.703	0.253	19.5	20.4504	0.0000	SURCHARGED
1440 minute winter	N8	1410	4.537	0.832	7.0	0.9404	0.0000	OK
1440 minute winter	89	1410	4.536	0.132	7.0	0.1498	0.0000	OK
1440 minute winter	88	1410	4.536	0.073	1.7	0.0831	0.0000	OK
60 minute winter	87	57	4.853	0.253	19.5	20.4608	0.0000	SURCHARGED
60 minute winter	86	57	4.610	0.050	3.4	0.0563	0.0000	OK
60 minute winter	85	58	4.610	0.010	0.0	0.0111	0.0000	OK
15 minute winter	84	1	4.575	0.000	0.0	0.0000	0.0000	OK
60 minute winter	83	50	4.666	0.191	13.5	13.1966	0.0000	OK
1440 minute winter	82	1410	4.537	0.081	1.2	0.0913	0.0000	OK
30 minute winter	81	26	5.839	0.339	25.6	12.0327	0.0000	SURCHARGED
30 minute winter	80	26	5.371	0.071	7.0	0.0803	0.0000	OK
30 minute winter	79	26	5.566	0.341	25.6	12.1534	0.0000	SURCHARGED
30 minute winter	78	26	5.185	0.085	13.9	0.0963	0.0000	OK
30 minute winter	77	27	5.053	0.103	13.9	0.1169	0.0000	OK
30 minute winter	76	26	5.339	0.339	25.6	12.1502	0.0000	SURCHARGED
30 minute winter	75	30	4.875	0.075	20.8	0.0847	0.0000	OK
15 minute winter	73	10	5.489	0.089	13.9	0.1836	0.0000	OK
15 minute winter	72	11	5.420	0.145	29.6	0.3243	0.0000	OK
15 minute winter	71	11	5.328	0.228	44.6	0.5033	0.0000	SURCHARGED
60 minute winter	70	50	5.146	0.046	4.8	0.0525	0.0000	OK
60 minute winter	69	50	5.340	0.040	4.8	0.0458	0.0000	OK
60 minute winter	68	50	5.677	0.277	22.9	22.9438	0.0000	SURCHARGED
15 minute winter	67	1	5.175	0.000	0.0	0.0000	0.0000	OK
60 minute winter	66	50	5.356	0.281	22.9	23.0935	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)
60 minute winter	90	13.000	89	3.4	0.472	0.082	0.0810	
1440 minute winter	N8	Flow through pond	3	13.9	0.031	0.001	715.8983	
1440 minute winter	89	12.004	N8	7.0	0.988	0.052	0.5222	
1440 minute winter	88	12.005	89	1.7	0.355	0.052	0.2635	
60 minute winter	87	14.000	86	3.4	0.546	0.085	0.0421	
60 minute winter	86	12.006	88	3.4	0.532	0.104	0.1559	
60 minute winter	85	12.007	86	0.0	-0.012	-0.001	0.0351	
15 minute winter	84	12.008	82	0.0	0.000	0.000	0.0178	
60 minute winter	83	15.000	82	2.9	0.650	0.096	0.0256	
1440 minute winter	82	12.009	38	1.2	0.669	0.016	0.3676	
30 minute winter	81	9.000	80	7.0	0.899	0.378	0.1433	
30 minute winter	80	9.001	78	7.0	0.879	0.421	0.1136	
30 minute winter	79	10.000	78	6.9	0.833	0.430	0.0506	
30 minute winter	78	9.002	77	13.9	0.882	0.281	0.2617	
30 minute winter	77	9.003	75	13.9	0.814	0.398	0.2815	
30 minute winter	76	11.000	75	6.9	0.873	0.400	0.0418	
30 minute winter	75	9.004	43	20.8	1.551	0.128	0.7812	
15 minute winter	73	8.000	72	13.7	0.658	0.335	0.4180	
15 minute winter	72	8.001	71	28.8	0.853	0.747	1.0580	
15 minute winter	71	8.002	48	43.4	1.168	1.074	0.5993	
60 minute winter	70	4.000	93	4.8	0.763	0.094	0.2439	
60 minute winter	69	4.001	70	4.8	0.902	0.069	0.0595	
60 minute winter	68	4.002	69	4.8	0.802	0.115	0.0930	
15 minute winter	67	4.003	65	0.0	0.000	0.000	0.0000	
60 minute winter	66	5.000	65	4.8	0.571	0.159	0.0494	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	65	50	5.042	0.062	4.8	0.0705	0.0000	OK
60 minute winter	64	52	4.951	0.051	4.8	0.0577	0.0000	OK
15 minute winter	63	10	5.338	0.113	14.9	0.2584	0.0000	OK
30 minute winter	61	26	5.664	0.289	44.0	22.9693	0.0000	SURCHARGED
30 minute winter	60	27	5.298	0.078	10.5	0.0878	0.0000	OK
15 minute winter	59	10	5.113	0.113	24.8	0.2075	0.0000	OK
15 minute winter	58	11	4.973	0.173	32.9	0.2867	0.0000	OK
15 minute winter	57	10	5.201	0.126	25.0	0.3747	0.0000	OK
60 minute winter	56	52	5.167	0.292	23.1	24.1492	0.0000	SURCHARGED
15 minute winter	55	11	4.869	0.161	30.0	0.2309	0.0000	OK
15 minute winter	54	12	4.825	0.163	29.6	0.2328	0.0000	OK
15 minute winter	53	13	4.790	0.164	29.0	0.2351	0.0000	OK
60 minute winter	52	50	5.228	0.278	23.1	22.9767	0.0000	SURCHARGED
15 minute winter	51	14	4.767	0.257	31.9	0.3673	0.0000	OK
15 minute winter	50	14	4.761	0.293	40.7	0.6336	0.0000	OK
15 minute winter	49	14	4.755	0.313	49.6	0.6536	0.0000	OK
15 minute winter	48	13	4.748	0.329	101.4	0.6766	0.0000	OK
15 minute winter	47	13	4.726	0.358	119.0	0.9181	0.0000	OK
15 minute winter	43	13	4.701	0.472	147.6	1.3969	0.0000	SURCHARGED
15 minute winter	42	13	4.647	0.472	151.4	1.2747	0.0000	SURCHARGED
15 minute winter	41	13	4.578	0.553	150.9	1.4936	0.0000	SURCHARGED
1440 minute winter	40	1410	4.537	0.562	20.7	1.5291	0.0000	SURCHARGED
1440 minute winter	39	1410	4.537	0.584	20.4	1.0315	0.0000	SURCHARGED
1440 minute winter	38	1410	4.537	0.604	21.4	1.0668	0.0000	SURCHARGED
1440 minute winter	37	1410	4.537	0.832	21.3	1.4699	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	65	4.004	64	4.8	0.518	0.089	0.3090	
60 minute winter	64	4.005	55	4.8	0.612	0.061	0.1842	
15 minute winter	63	3.000	59	14.4	1.064	0.835	0.2148	
30 minute winter	61	2.000	60	10.5	1.146	0.476	0.0477	
30 minute winter	60	1.001	127	10.5	1.055	0.234	0.3605	
15 minute winter	59	1.002	58	24.6	0.942	0.498	0.5742	
15 minute winter	58	1.003	119	32.6	0.979	0.845	0.7712	
15 minute winter	57	1.004	55	24.2	1.088	0.572	0.7263	
60 minute winter	56	6.000	55	4.3	0.551	0.142	0.0391	
15 minute winter	55	1.005	54	29.6	0.664	0.354	1.1685	
15 minute winter	54	1.006	53	29.0	0.655	0.349	0.9349	
15 minute winter	53	1.007	51	28.0	0.652	0.338	1.1407	
60 minute winter	52	7.000	51	4.9	1.075	0.192	0.0310	
15 minute winter	51	1.008	50	32.5	0.464	0.271	3.0307	
15 minute winter	50	1.009	49	41.1	0.471	0.342	2.0927	
15 minute winter	49	1.010	48	49.4	0.523	0.410	1.9547	
15 minute winter	48	1.011	47	99.5	0.897	0.830	4.7160	
15 minute winter	47	1.012	43	107.3	0.927	0.481	4.2632	
15 minute winter	43	1.016	42	135.1	1.069	0.872	3.6813	
15 minute winter	42	1.017	41	137.1	0.980	0.571	4.2889	
15 minute winter	41	1.018	40	146.5	0.925	0.806	2.4809	
1440 minute winter	40	1.019	39	20.4	0.461	0.186	2.9467	
1440 minute winter	39	1.020	38	20.2	0.501	0.183	2.6571	
1440 minute winter	38	1.021	37	21.3	0.645	0.194	0.5357	
1440 minute winter	37	Flow through pond	3	13.9	0.031	0.001	715.8983	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	36	1410	4.536	0.386	7.1	130.3831	0.0000	SURCHARGED
1440 minute winter	35	1410	4.536	0.831	6.5	0.9404	0.0000	OK
30 minute winter	32	27	4.218	0.343	24.0	12.2251	0.0000	SURCHARGED
30 minute winter	31	27	4.120	0.345	24.0	12.3892	0.0000	SURCHARGED
60 minute winter	30	49	4.705	0.405	14.4	13.6353	0.0000	SURCHARGED
60 minute winter	29	49	4.704	0.404	14.4	13.5226	0.0000	SURCHARGED
15 minute winter	28	11	4.214	0.075	5.9	0.0845	0.0000	OK
15 minute winter	27	10	4.837	0.087	16.6	0.2036	0.0000	OK
15 minute winter	26	10	4.586	0.111	33.0	0.2619	0.0000	OK
15 minute winter	25	11	4.205	0.202	50.8	0.3536	0.0000	OK
15 minute winter	24	11	4.092	0.192	64.4	0.3368	0.0000	OK
1440 minute winter	23	1170	3.963	0.354	8.6	0.5064	0.0000	OK
1440 minute winter	22	1170	3.963	0.388	8.5	0.5550	0.0000	SURCHARGED
1440 minute winter	21	1170	3.963	0.436	8.2	0.6237	0.0000	SURCHARGED
15 minute winter	20	10	4.385	0.085	14.6	0.1877	0.0000	OK
15 minute winter	19	12	4.215	0.140	28.9	0.3069	0.0000	OK
30 minute winter	18	28	4.704	0.279	12.3	6.4895	0.0000	SURCHARGED
60 minute winter	17	46	4.880	0.280	8.2	6.5125	0.0000	SURCHARGED
60 minute winter	16	47	4.391	0.067	5.0	0.0754	0.0000	OK
15 minute winter	15	11	4.303	0.129	16.9	0.2254	0.0000	OK
15 minute winter	14	11	4.257	0.133	29.7	0.2364	0.0000	OK
15 minute winter	13	12	4.154	0.404	72.8	0.8470	0.0000	SURCHARGED
15 minute winter	12	11	4.012	0.340	80.3	0.7198	0.0000	SURCHARGED
1440 minute winter	11	1170	3.963	0.361	6.4	38.0056	0.0000	SURCHARGED
120 minute winter	10	94	3.995	0.195	12.5	22.6605	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	36	38.000	35	-6.5	-0.420	-0.486	0.1238	
1440 minute winter	35	Flow through pond	3	13.9	0.031	0.001	715.8983	
30 minute winter	32	30.000	23	5.4	0.629	0.160	0.3383	
30 minute winter	31	31.000	23	5.4	0.588	0.178	0.0734	
60 minute winter	30	28.000	28	3.1	0.606	0.234	0.0784	
60 minute winter	29	29.000	28	3.1	0.895	0.132	0.0170	
15 minute winter	28	28.001	25	5.9	0.609	0.196	0.3151	
15 minute winter	27	27.000	26	16.4	0.975	0.309	0.4453	
15 minute winter	26	27.001	25	32.6	1.590	0.458	0.4503	
15 minute winter	25	27.002	24	51.0	1.040	0.720	1.2323	
15 minute winter	24	27.003	23	64.2	1.357	0.660	1.3714	
1440 minute winter	23	27.004	22	8.5	0.470	0.101	2.0536	
1440 minute winter	22	27.005	21	8.2	0.536	0.099	3.0215	
1440 minute winter	21	27.006	8	8.0	0.627	0.061	1.4773	
15 minute winter	20	25.000	19	14.3	0.791	0.310	0.5387	
15 minute winter	19	25.001	13	28.1	0.940	0.600	1.0075	
30 minute winter	18	23.000	16	2.5	0.428	0.190	0.1063	
60 minute winter	17	24.000	16	2.5	0.562	0.188	0.0203	
60 minute winter	16	23.001	15	5.0	0.687	0.380	0.0979	
15 minute winter	15	23.002	14	16.6	0.694	0.552	0.3532	
15 minute winter	14	23.003	13	28.9	0.932	0.650	1.3083	
15 minute winter	13	23.004	12	65.7	0.933	1.236	2.3591	
15 minute winter	12	23.005	11	79.0	1.449	1.486	1.8748	
1440 minute winter	11	23.006	9	5.9	0.550	0.110	0.9225	
120 minute winter	10	26.000	9	3.0	0.845	0.132	0.0216	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	9	1170	3.963	0.467	7.4	0.6680	0.0000	SURCHARGED
1440 minute winter	8	1170	3.963	0.644	15.0	1.1375	0.0000	SURCHARGED
1440 minute winter	7	1140	3.964	1.098	14.8	1.9408	0.0000	OK
1440 minute winter	6	1170	3.963	1.113	9.4	1.8859	0.0000	SURCHARGED
1440 minute winter	5	1170	3.962	1.129	3.4	1.2772	0.0000	SURCHARGED
600 minute winter	4	735	3.397	0.575	3.4	0.0000	0.0000	OK
1440 minute winter	3	1410	4.536	0.886	15.5	2.4519	0.0000	SURCHARGED
1440 minute winter	2	1410	4.536	0.901	3.9	1.5922	0.0000	SURCHARGED
360 minute winter	1	488	3.851	0.225	3.8	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)
1440 minute winter	9	23.007	8	7.3	0.522	0.087	1.6463	
1440 minute winter	8	23.008	7	14.8	0.559	0.086	1.1750	
1440 minute winter	7	Flow through pond	6	8.7	0.005	0.000	341.9858	
1440 minute winter	6	37.000	5	3.4	0.086	0.111	0.1913	
1440 minute winter	5	37.001	4	3.4	0.085	0.110	0.1229	221.3
1440 minute winter	3	39.000	2	3.9	0.132	0.128	0.1736	
1440 minute winter	2	39.001	1	3.8	0.344	0.124	0.0998	261.5

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	130	52	5.120	0.620	25.1	25.7935	0.0000	FLOOD RISK
120 minute winter	129 - PP	90	4.950	0.825	15.5	26.3047	0.0144	FLOOD
960 minute winter	129	945	4.711	0.602	3.9	0.6804	0.0000	FLOOD RISK
960 minute winter	128	945	4.711	0.836	3.7	0.9451	0.0000	FLOOD RISK
60 minute winter	127	45	5.026	0.076	18.6	0.0861	0.0000	OK
1440 minute winter	126	1470	4.725	0.325	4.9	0.3678	0.0000	SURCHARGED
1440 minute winter	N7	1470	4.725	0.525	6.3	185.5663	0.0000	FLOOD RISK
1440 minute winter	N6	1470	4.725	0.588	5.5	0.0000	0.0000	FLOOD RISK
1440 minute winter	N5	1470	4.725	0.621	8.1	57.1754	0.0000	FLOOD RISK
1440 minute winter	N4	1470	4.725	0.634	1.0	0.7173	0.0000	FLOOD RISK
720 minute winter	N3	675	4.700	0.697	1.0	0.0000	0.0000	FLOOD RISK
960 minute winter	N2	945	4.711	0.871	8.1	121.2221	0.0000	FLOOD RISK
960 minute winter	N1	945	4.711	0.901	6.8	0.0000	0.0000	FLOOD RISK
1440 minute winter	125	1470	4.725	0.525	14.7	0.5941	0.0000	FLOOD RISK
1440 minute winter	124	1470	4.725	0.500	7.6	0.5658	0.0000	SURCHARGED
1440 minute winter	123	1470	4.725	0.350	3.0	0.3961	0.0000	SURCHARGED
120 minute winter	122	90	4.732	0.182	22.2	38.1875	0.0000	OK
1440 minute winter	121	1470	4.725	0.200	3.0	0.2265	0.0000	OK
60 minute winter	119 - PP	42	5.600	0.875	37.2	30.4289	1.2345	FLOOD
15 minute winter	119	12	5.080	0.405	52.7	0.4580	0.0000	SURCHARGED
60 minute winter	118 - PP	44	5.400	0.900	37.5	31.4675	0.1023	FLOOD
960 minute winter	118	945	4.711	0.311	13.1	0.3515	0.0000	SURCHARGED
960 minute winter	117	945	4.711	0.600	16.4	2.0416	0.0000	FLOOD RISK
960 minute winter	116	945	4.711	1.184	16.9	1.7448	0.0000	FLOOD RISK
960 minute winter	115	945	4.711	1.229	11.0	1.7963	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	130	21.000	129	4.8	0.816	0.266	0.3602	
120 minute winter	129 - PP	22.000	129	4.5	0.421	0.149	0.1862	
960 minute winter	129	21.001	128	3.7	0.551	0.086	1.3490	
960 minute winter	128	21.002	114	3.6	0.494	0.101	0.4242	
60 minute winter	127	16.000	126	18.6	1.204	0.249	0.4205	
1440 minute winter	126	16.001	124	4.8	0.622	0.111	0.5764	
1440 minute winter	N7	14.000_1	N6	-5.4	-0.137	-0.167	0.6309	
1440 minute winter	N6	14.001	N5	-5.5	-0.137	-0.167	0.3283	
1440 minute winter	N5	12.006_1	N4	1.0	0.133	0.031	0.1340	
1440 minute winter	N4	Hydro-Brake®	N3	1.0				
720 minute winter	N3	12.008_1	N2	1.0	0.283	0.017	4.2968	
960 minute winter	N2	12.009_1	N1	-6.7	0.363	-0.118	0.7907	
960 minute winter	N1	12.010	116	-6.8	0.196	-0.088	4.1688	
1440 minute winter	125	12.005_1	N5	-8.0	-0.312	-0.094	0.1435	
1440 minute winter	124	17.000	125	7.5	0.553	0.233	0.2545	
1440 minute winter	123	16.002	124	2.9	0.228	0.093	1.6348	
120 minute winter	122	18.000	121	6.9	0.641	0.203	0.0631	
1440 minute winter	121	16.003	123	3.0	0.485	0.089	1.3483	
60 minute winter	119 - PP	20.001	119	13.4	0.791	0.234	0.1434	
15 minute winter	119	19.000	118	52.1	1.320	1.420	1.5054	
60 minute winter	118 - PP	20.000	118	13.5	0.850	0.340	0.0678	
960 minute winter	118	19.001	117	13.1	0.741	0.149	3.2505	
960 minute winter	117	16.006	116	16.1	0.744	0.207	1.5793	
960 minute winter	116	16.007	115	10.2	0.461	0.178	1.1929	
960 minute winter	115	16.008	114	10.9	0.503	0.191	1.4975	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	114	945	4.711	1.361	15.2	2.3348	0.0000	FLOOD RISK
960 minute winter	113	945	4.711	1.411	27.8	506.6246	0.0000	FLOOD RISK
960 minute winter	112	945	4.711	1.431	4.0	2.0471	0.0000	FLOOD RISK
480 minute winter	111	608	3.600	0.350	4.0	0.0000	0.0000	OK
15 minute winter	110	11	5.400	0.750	31.3	1.8983	0.9433	FLOOD
15 minute winter	109	11	5.550	0.750	31.3	1.8983	0.8500	FLOOD
15 minute winter	108	11	5.082	0.657	72.4	1.5803	0.0000	FLOOD RISK
15 minute winter	107	11	4.647	0.422	66.7	0.4773	0.0000	SURCHARGED
120 minute winter	106	116	4.699	0.374	27.5	60.5940	0.0000	SURCHARGED
960 minute winter	105	945	4.280	0.255	3.2	0.2885	0.0000	SURCHARGED
120 minute winter	104 - PP	108	4.639	0.764	27.7	54.1553	0.0000	FLOOD RISK
960 minute winter	104	945	4.280	0.493	12.5	0.5573	0.0000	SURCHARGED
960 minute winter	103	945	4.279	0.829	13.1	1.5196	0.0000	FLOOD RISK
15 minute winter	102	11	5.513	0.738	43.8	2.1487	0.0000	FLOOD RISK
15 minute winter	101	11	5.300	0.925	79.7	2.5160	2.5337	FLOOD
15 minute winter	100	11	4.850	1.100	95.9	2.7137	1.9282	FLOOD
960 minute winter	99	945	4.711	1.136	11.6	2.8469	0.0000	FLOOD RISK
960 minute winter	98	945	4.279	0.929	13.9	1.7026	0.0000	FLOOD RISK
960 minute winter	97	945	4.279	0.959	13.8	241.8475	0.0000	FLOOD RISK
960 minute winter	96	945	4.279	0.989	4.1	2.1477	0.0000	FLOOD RISK
360 minute winter	95	488	3.485	0.225	4.0	0.0000	0.0000	OK
15 minute winter	94	12	5.379	0.179	28.8	0.3586	0.0000	OK
15 minute winter	93	12	5.320	0.420	57.1	0.8624	0.0000	SURCHARGED
15 minute winter	92	12	5.126	0.376	48.2	0.4254	0.0000	SURCHARGED
1440 minute winter	91	1440	4.912	0.362	6.1	0.4093	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)
960 minute winter	114	16.009	113	15.1	0.561	0.092	0.8139	
960 minute winter	113	16.010	112	4.0	0.185	0.034	0.6146	
960 minute winter	112	Hydro-Brake®	111	4.0				253.0
15 minute winter	110	33.000	108	20.8	1.184	1.489	0.4221	
15 minute winter	109	32.000	108	21.0	1.196	1.247	0.5833	
15 minute winter	108	32.001	107	66.7	1.678	1.318	0.8380	
15 minute winter	107	32.002	104	66.1	1.662	1.195	1.2507	
120 minute winter	106	34.000	105	3.6	0.741	0.072	0.4015	
960 minute winter	105	34.001	104	3.1	0.672	0.061	0.6840	
120 minute winter	104 - PP	35.000	104	5.0	0.574	0.163	0.1481	
960 minute winter	104	32.003	103	12.2	0.904	0.101	1.5540	
960 minute winter	103	32.004	98	13.0	0.487	0.101	2.6168	
15 minute winter	102	36.000	101	38.4	1.133	0.642	1.2044	
15 minute winter	101	36.001	100	58.3	1.657	0.891	1.3840	
15 minute winter	100	36.002	99	81.1	1.152	1.076	2.6566	
960 minute winter	99	36.003	113	11.5	0.413	0.196	4.3675	
960 minute winter	98	32.005	97	13.8	0.607	0.103	0.7329	
960 minute winter	97	32.006	96	3.6	0.190	0.026	0.6677	
960 minute winter	96	Hydro-Brake®	95	4.0				238.7
15 minute winter	94	12.000	93	28.3	0.802	0.627	1.4591	
15 minute winter	93	12.001	92	48.2	1.230	1.004	0.6978	
15 minute winter	92	12.002	91	48.1	1.211	1.040	1.0006	
1440 minute winter	91	12.003	89	6.1	0.688	0.165	1.1389	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	90	1410	4.913	0.463	3.2	44.2767	0.0000	SURCHARGED
1440 minute winter	N8	1440	4.913	1.208	10.2	1.3658	0.0000	OK
1440 minute winter	89	1440	4.912	0.508	10.9	0.5744	0.0000	SURCHARGED
1440 minute winter	88	1440	4.912	0.449	2.7	0.5077	0.0000	SURCHARGED
120 minute winter	87	96	5.049	0.449	22.2	42.6968	0.0000	SURCHARGED
1440 minute winter	86	1440	4.912	0.352	2.7	0.3980	0.0000	SURCHARGED
1440 minute winter	85	1440	4.912	0.312	0.1	0.3528	0.0000	SURCHARGED
1440 minute winter	84	1440	4.912	0.337	0.1	0.3811	0.0000	SURCHARGED
1440 minute winter	83	1440	4.912	0.437	2.5	40.8298	0.0000	SURCHARGED
1440 minute winter	82	1440	4.912	0.456	1.9	0.5157	0.0000	SURCHARGED
60 minute winter	81	46	6.190	0.690	31.3	25.7782	0.0000	FLOOD RISK
60 minute winter	80	46	5.391	0.091	10.4	0.1030	0.0000	OK
60 minute winter	79	45	5.943	0.718	31.3	25.9382	0.0000	FLOOD RISK
30 minute winter	78	22	5.359	0.259	19.1	0.2935	0.0000	SURCHARGED
30 minute winter	77	22	5.340	0.390	20.8	0.4415	0.0000	SURCHARGED
30 minute winter	76	26	5.700	0.700	46.7	26.0656	0.1179	FLOOD
30 minute winter	75	22	5.319	0.519	34.2	0.5867	0.0000	SURCHARGED
15 minute winter	73	12	5.965	0.565	25.0	1.1669	0.0000	SURCHARGED
15 minute winter	72	12	5.926	0.651	48.3	1.4556	0.0000	FLOOD RISK
15 minute winter	71	12	5.662	0.562	72.8	1.2389	0.0000	SURCHARGED
15 minute winter	70	12	5.322	0.222	11.2	0.2512	0.0000	OK
120 minute winter	69	90	5.353	0.053	8.2	0.0601	0.0000	OK
120 minute winter	68	90	6.105	0.705	26.0	46.1718	0.0000	FLOOD RISK
15 minute winter	67	13	5.507	0.332	10.0	0.3759	0.0000	SURCHARGED
120 minute winter	66	88	5.926	0.851	26.0	46.0254	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	90	13.000	89	2.5	0.410	0.060	0.2815	
1440 minute winter	N8	Flow through pond	3	18.2	0.032	0.001	1188.3857	
1440 minute winter	89	12.004	N8	10.2	1.030	0.076	0.7407	
1440 minute winter	88	12.005	89	2.5	0.380	0.077	0.5896	
120 minute winter	87	14.000	86	4.7	0.600	0.118	0.0545	
1440 minute winter	86	12.006	88	2.7	0.486	0.082	0.9674	
1440 minute winter	85	12.007	86	-0.1	-0.006	-0.002	0.3942	
1440 minute winter	84	12.008	82	-0.1	-0.004	-0.001	0.4798	
1440 minute winter	83	15.000	82	1.9	0.564	0.063	0.2261	
1440 minute winter	82	12.009	38	1.8	0.717	0.024	0.5563	
60 minute winter	81	9.000	80	10.4	0.982	0.563	0.1957	
60 minute winter	80	9.001	78	10.4	0.964	0.627	0.1542	
60 minute winter	79	10.000	78	10.5	0.918	0.657	0.0701	
30 minute winter	78	9.002	77	20.8	0.939	0.420	0.6603	
30 minute winter	77	9.003	75	22.8	0.896	0.653	0.6563	
30 minute winter	76	11.000	75	11.4	0.967	0.663	0.0930	
30 minute winter	75	9.004	43	37.2	1.628	0.229	1.3966	
15 minute winter	73	8.000	72	21.2	0.687	0.518	0.8006	
15 minute winter	72	8.001	71	45.7	1.150	1.187	1.2592	
15 minute winter	71	8.002	48	69.7	1.753	1.726	0.6550	
15 minute winter	70	4.000	93	10.0	0.807	0.195	0.8201	
120 minute winter	69	4.001	70	8.2	1.040	0.117	0.0871	
120 minute winter	68	4.002	69	8.2	0.924	0.195	0.1361	
15 minute winter	67	4.003	65	-10.0	0.269	-0.173	0.3849	
120 minute winter	66	5.000	65	8.9	0.677	0.297	0.0779	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	65	13	5.527	0.547	53.7	0.6190	0.0000	SURCHARGED
15 minute winter	64	13	5.511	0.611	41.1	0.6909	0.0000	SURCHARGED
15 minute winter	63	12	5.765	0.540	26.9	1.2394	0.0000	FLOOD RISK
60 minute winter	61	44	6.150	0.775	53.8	46.6578	0.2315	FLOOD
60 minute winter	60	44	5.326	0.106	18.6	0.1202	0.0000	OK
15 minute winter	59	12	5.466	0.466	39.3	0.8537	0.0000	SURCHARGED
15 minute winter	58	12	5.327	0.527	51.1	0.8752	0.0000	SURCHARGED
15 minute winter	57	14	5.530	0.455	45.1	1.3498	0.0000	SURCHARGED
120 minute winter	56	86	6.224	1.349	26.2	47.2756	0.0000	FLOOD RISK
15 minute winter	55	13	5.465	0.757	102.0	1.0833	0.0000	SURCHARGED
15 minute winter	54	14	5.452	0.790	72.5	1.1311	0.0000	SURCHARGED
15 minute winter	53	14	5.439	0.813	56.8	1.1633	0.0000	SURCHARGED
60 minute winter	52	51	5.711	0.761	42.4	46.3003	0.0000	FLOOD RISK
15 minute winter	51	14	5.437	0.927	68.9	1.3270	0.0000	SURCHARGED
15 minute winter	50	14	5.436	0.968	95.3	2.0910	0.0000	FLOOD RISK
15 minute winter	49	14	5.424	0.982	85.6	2.0529	0.0000	SURCHARGED
15 minute winter	48	14	5.412	0.993	122.3	2.0408	0.0000	SURCHARGED
15 minute winter	47	14	5.359	0.991	148.2	2.5447	0.0000	SURCHARGED
30 minute winter	43	22	5.305	1.076	163.3	3.1813	0.0000	FLOOD RISK
30 minute winter	42	22	5.219	1.044	177.8	2.8196	0.0000	FLOOD RISK
30 minute winter	41	22	5.105	1.080	193.2	2.9167	0.0000	FLOOD RISK
30 minute winter	40	22	5.012	1.037	211.2	2.8234	0.0000	FLOOD RISK
1440 minute winter	39	1440	4.912	0.959	34.2	1.6945	0.0000	SURCHARGED
1440 minute winter	38	1440	4.912	0.979	35.5	1.7298	0.0000	FLOOD RISK
1440 minute winter	37	1440	4.912	1.207	35.4	2.1329	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	65	4.004	64	-52.7	-0.780	-0.977	2.3531	
15 minute winter	64	4.005	55	-41.1	0.646	-0.527	1.6644	
15 minute winter	63	3.000	59	22.0	1.248	1.269	0.2776	
60 minute winter	61	2.000	60	18.6	1.284	0.843	0.0752	
60 minute winter	60	1.001	127	18.6	1.234	0.414	0.5459	
15 minute winter	59	1.002	58	37.2	0.987	0.751	0.8759	
15 minute winter	58	1.003	119	49.4	1.241	1.278	0.8942	
15 minute winter	57	1.004	55	43.6	1.205	1.030	1.2977	
120 minute winter	56	6.000	55	9.9	0.694	0.330	0.0721	
15 minute winter	55	1.005	54	-58.4	0.736	-0.698	2.8461	
15 minute winter	54	1.006	53	-72.5	0.708	-0.871	2.2504	
15 minute winter	53	1.007	51	62.9	0.639	0.759	2.5879	
60 minute winter	52	7.000	51	8.8	1.234	0.344	0.1195	
15 minute winter	51	1.008	50	77.9	0.519	0.649	4.7357	
15 minute winter	50	1.009	49	85.6	0.556	0.712	2.9214	
15 minute winter	49	1.010	48	90.8	0.603	0.753	2.5688	
15 minute winter	48	1.011	47	108.5	0.875	0.905	5.7613	
15 minute winter	47	1.012	43	129.1	0.911	0.579	4.6021	
30 minute winter	43	1.016	42	162.9	1.057	1.052	3.6813	
30 minute winter	42	1.017	41	177.8	1.122	0.740	4.2889	
30 minute winter	41	1.018	40	192.0	1.212	1.056	2.4809	
30 minute winter	40	1.019	39	208.4	1.316	1.896	2.9467	
1440 minute winter	39	1.020	38	34.1	0.493	0.309	2.6571	
1440 minute winter	38	1.021	37	35.4	0.634	0.322	0.5357	
1440 minute winter	37	Flow through pond	3	18.2	0.032	0.001	1188.3857	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	36	1440	4.912	0.762	12.0	352.2986	0.0000	FLOOD RISK
1440 minute winter	35	1440	4.912	1.207	10.9	1.3649	0.0000	OK
60 minute winter	32	46	4.712	0.837	29.3	26.2647	0.0000	SURCHARGED
60 minute winter	31	46	4.674	0.899	29.3	26.5778	0.0000	FLOOD RISK
120 minute winter	30	94	4.904	0.604	16.3	28.9366	0.0000	FLOOD RISK
120 minute winter	29	94	4.902	0.602	16.3	28.7258	0.0000	FLOOD RISK
1440 minute winter	28	1410	4.460	0.321	4.5	0.3635	0.0000	SURCHARGED
15 minute winter	27	10	4.874	0.124	30.1	0.2925	0.0000	OK
15 minute winter	26	12	4.701	0.226	59.9	0.5329	0.0000	SURCHARGED
1440 minute winter	25	1410	4.460	0.457	8.5	0.7991	0.0000	SURCHARGED
1440 minute winter	24	1410	4.460	0.560	9.6	0.9846	0.0000	SURCHARGED
1440 minute winter	23	1410	4.460	0.851	13.3	1.2183	0.0000	SURCHARGED
1440 minute winter	22	1410	4.460	0.885	12.8	1.2670	0.0000	SURCHARGED
1440 minute winter	21	1410	4.460	0.933	12.5	1.3356	0.0000	SURCHARGED
15 minute winter	20	12	4.928	0.628	26.3	1.3812	0.0000	FLOOD RISK
15 minute winter	19	12	4.872	0.797	44.9	1.7525	0.0000	FLOOD RISK
60 minute winter	18	50	4.847	0.422	15.0	14.2854	0.0000	SURCHARGED
60 minute winter	17	50	5.022	0.422	15.0	14.3171	0.0000	SURCHARGED
15 minute winter	16	12	4.858	0.534	10.0	0.6045	0.0000	SURCHARGED
15 minute winter	15	12	4.857	0.683	23.8	1.1917	0.0000	SURCHARGED
15 minute winter	14	12	4.836	0.712	38.8	1.2691	0.0000	SURCHARGED
15 minute winter	13	12	4.634	0.884	99.1	1.8534	0.0000	FLOOD RISK
1440 minute winter	12	1410	4.460	0.788	9.7	1.6706	0.0000	FLOOD RISK
1440 minute winter	11	1410	4.460	0.858	10.7	55.5111	0.0000	FLOOD RISK
1440 minute winter	10	1380	4.463	0.663	5.0	104.3117	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	36	38.000	35	-10.9	-0.617	-0.814	0.1238	
1440 minute winter	35	Flow through pond	3	18.2	0.032	0.001	1188.3857	
60 minute winter	32	30.000	23	8.9	0.721	0.262	0.8478	
60 minute winter	31	31.000	23	9.2	0.682	0.303	0.1837	
120 minute winter	30	28.000	28	3.9	0.643	0.291	0.0919	
120 minute winter	29	29.000	28	3.9	0.947	0.164	0.0199	
1440 minute winter	28	28.001	25	4.5	0.565	0.149	0.7229	
15 minute winter	27	27.000	26	29.8	1.075	0.564	0.7760	
15 minute winter	26	27.001	25	57.1	1.606	0.802	0.8466	
1440 minute winter	25	27.002	24	8.4	0.710	0.119	1.7691	
1440 minute winter	24	27.003	23	9.4	0.823	0.097	1.9787	
1440 minute winter	23	27.004	22	12.8	0.493	0.152	2.0770	
1440 minute winter	22	27.005	21	12.5	0.584	0.151	3.0215	
1440 minute winter	21	27.006	8	12.3	0.663	0.094	1.4773	
15 minute winter	20	25.000	19	21.2	0.841	0.458	1.1273	
15 minute winter	19	25.001	13	42.1	1.058	0.898	1.2212	
60 minute winter	18	23.000	16	3.2	0.465	0.240	0.1264	
60 minute winter	17	24.000	16	3.2	0.597	0.237	0.0241	
15 minute winter	16	23.001	15	12.5	0.821	0.944	0.2345	
15 minute winter	15	23.002	14	22.8	0.714	0.759	0.5861	
15 minute winter	14	23.003	13	35.2	0.946	0.794	1.6231	
15 minute winter	13	23.004	12	98.2	1.394	1.847	2.3591	
1440 minute winter	12	23.005	11	9.7	0.502	0.182	2.1176	
1440 minute winter	11	23.006	9	9.7	0.579	0.180	0.9225	
1440 minute winter	10	26.000	9	-2.5	0.762	-0.111	0.0876	



Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	9	1410	4.460	0.964	9.7	1.3800	0.0000	FLOOD RISK
1440 minute winter	8	1410	4.460	1.141	19.3	2.0167	0.0000	FLOOD RISK
1440 minute winter	7	1410	4.462	1.596	19.0	2.8198	0.0000	OK
1440 minute winter	6	1410	4.460	1.610	11.7	2.7295	0.0000	FLOOD RISK
1440 minute winter	5	1410	4.460	1.627	3.4	1.8401	0.0000	FLOOD RISK
600 minute winter	4	735	3.397	0.575	3.4	0.0000	0.0000	OK
1440 minute winter	3	1440	4.912	1.262	21.3	3.4902	0.0000	FLOOD RISK
1440 minute winter	2	1440	4.911	1.276	3.9	2.2554	0.0000	FLOOD RISK
360 minute winter	1	488	3.851	0.225	3.8	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)
1440 minute winter	9	23.007	8	9.0	0.552	0.107	1.6463	
1440 minute winter	8	23.008	7	19.0	0.595	0.110	1.1750	
1440 minute winter	7	Flow through pond	6	10.7	0.027	0.000	589.5760	
1440 minute winter	6	37.000	5	3.4	0.086	0.112	0.1913	
1440 minute winter	5	37.001	4	3.4	0.085	0.109	0.1229	257.3
1440 minute winter	3	39.000	2	3.9	0.106	0.128	0.1736	
1440 minute winter	2	39.001	1	3.8	0.423	0.124	0.0998	298.4

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	130	78	5.250	0.750	17.1	26.3819	2.1741	FLOOD
120 minute winter	129 - PP	78	4.950	0.825	17.1	26.4664	2.8173	FLOOD
960 minute winter	129	900	4.750	0.641	4.5	0.7252	0.0000	FLOOD RISK
960 minute winter	128	855	4.750	0.875	4.4	0.9896	1.0467	FLOOD
60 minute winter	127	40	5.026	0.076	18.6	0.0861	0.0000	OK
1440 minute winter	126	1470	4.762	0.362	5.3	0.4093	0.0000	SURCHARGED
1440 minute winter	N7	1470	4.762	0.562	7.2	202.8039	0.0000	FLOOD RISK
1440 minute winter	N6	1470	4.762	0.625	6.3	0.0000	0.0000	FLOOD RISK
1440 minute winter	N5	1470	4.762	0.658	14.3	62.9790	0.0000	FLOOD RISK
1440 minute winter	N4	1470	4.762	0.671	1.3	0.7589	0.0000	FLOOD RISK
360 minute winter	N3	328	4.700	0.697	1.6	0.0000	0.0000	FLOOD RISK
1440 minute winter	N2	1230	4.750	0.910	6.5	131.8788	2.3745	FLOOD
960 minute winter	N1	855	4.750	0.940	7.8	0.0000	0.1044	FLOOD
1440 minute winter	125	1470	4.762	0.562	8.3	0.6356	0.0000	FLOOD RISK
1440 minute winter	124	1470	4.762	0.537	8.3	0.6073	0.0000	SURCHARGED
1440 minute winter	123	1470	4.762	0.387	3.4	0.4377	0.0000	SURCHARGED
1440 minute winter	122	1470	4.762	0.212	3.6	47.2259	0.0000	OK
1440 minute winter	121	1470	4.762	0.237	3.4	0.2680	0.0000	SURCHARGED
60 minute winter	119 - PP	38	5.600	0.875	40.9	30.6687	4.7691	FLOOD
15 minute winter	119	12	5.130	0.455	55.6	0.5148	0.0000	SURCHARGED
60 minute winter	118 - PP	39	5.400	0.900	41.2	31.7096	3.4248	FLOOD
960 minute winter	118	885	4.751	0.351	14.2	0.3965	0.0000	SURCHARGED
960 minute winter	117	900	4.751	0.640	17.7	2.3227	0.0000	FLOOD RISK
1440 minute winter	116	1230	4.750	1.223	13.4	1.8455	9.2283	FLOOD
720 minute winter	115	705	4.750	1.268	13.8	1.8957	0.0148	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	130	21.000	129	5.3	0.800	0.294	0.4741	
120 minute winter	129 - PP	22.000	129	4.5	0.422	0.151	0.1862	
960 minute winter	129	21.001	128	4.4	0.538	0.103	1.3490	
960 minute winter	128	21.002	114	4.4	0.479	0.125	0.4242	
60 minute winter	127	16.000	126	18.6	1.221	0.249	0.4231	
1440 minute winter	126	16.001	124	5.2	0.616	0.120	0.5764	
1440 minute winter	N7	14.000_1	N6	-6.3	-0.157	-0.192	0.6309	
1440 minute winter	N6	14.001	N5	-6.3	-0.158	-0.192	0.3283	
1440 minute winter	N5	12.006_1	N4	1.3	0.133	0.039	0.1340	
1440 minute winter	N4	Hydro-Brake®	N3	1.0				
360 minute winter	N3	12.008_1	N2	1.0	0.274	0.017	4.2968	
1440 minute winter	N2	12.009_1	N1	-5.5	0.354	-0.096	0.7907	
960 minute winter	N1	12.010	116	-7.8	0.201	-0.102	4.1688	
1440 minute winter	125	12.005_1	N5	13.9	0.520	0.164	0.1435	
1440 minute winter	124	17.000	125	8.3	0.559	0.257	0.2545	
1440 minute winter	123	16.002	124	3.2	0.224	0.103	1.6348	
1440 minute winter	122	18.000	121	3.4	0.528	0.099	0.2286	
1440 minute winter	121	16.003	123	3.4	0.485	0.099	1.3906	
60 minute winter	119 - PP	20.001	119	13.4	0.792	0.235	0.1595	
15 minute winter	119	19.000	118	55.0	1.390	1.500	1.5189	
60 minute winter	118 - PP	20.000	118	13.5	0.850	0.341	0.0703	
960 minute winter	118	19.001	117	14.1	0.740	0.161	3.2505	
960 minute winter	117	16.006	116	17.4	0.739	0.224	1.5793	
1440 minute winter	116	16.007	115	8.3	0.441	0.146	1.1929	
720 minute winter	115	16.008	114	13.8	0.543	0.242	1.4975	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	114	705	4.750	1.400	19.0	2.4430	0.0597	FLOOD
720 minute winter	113	705	4.750	1.450	36.2	558.1534	0.0000	FLOOD RISK
720 minute winter	112	705	4.750	1.470	4.0	2.1035	0.0000	FLOOD RISK
480 minute winter	111	608	3.600	0.350	4.0	0.0000	0.0000	OK
15 minute winter	110	10	5.400	0.750	34.4	2.0033	2.3162	FLOOD
15 minute winter	109	10	5.550	0.750	34.4	2.0033	2.1409	FLOOD
15 minute winter	108	11	5.132	0.707	74.3	1.7893	0.0000	FLOOD RISK
15 minute winter	107	11	4.682	0.457	67.9	0.5166	0.0000	SURCHARGED
180 minute winter	106	168	4.723	0.398	22.4	68.1623	0.0000	SURCHARGED
960 minute winter	105	960	4.337	0.312	3.3	0.3525	0.0000	SURCHARGED
120 minute winter	104 - PP	98	4.700	0.825	30.4	60.8236	0.5102	FLOOD
960 minute winter	104	960	4.336	0.549	13.2	0.6212	0.0000	SURCHARGED
960 minute winter	103	960	4.336	0.886	13.8	1.6585	0.0000	FLOOD RISK
15 minute winter	102	11	5.573	0.798	48.2	2.4672	0.0000	FLOOD RISK
15 minute winter	101	10	5.300	0.925	90.4	2.6631	5.2908	FLOOD
15 minute winter	100	10	4.850	1.100	102.4	2.8611	4.3915	FLOOD
960 minute winter	99	855	4.750	1.175	12.5	3.1079	4.6006	FLOOD
960 minute winter	98	960	4.336	0.986	14.6	1.8456	0.0000	FLOOD RISK
960 minute winter	97	960	4.336	1.016	14.5	270.7242	0.0000	FLOOD RISK
960 minute winter	96	960	4.336	1.046	4.1	2.3478	0.0000	FLOOD RISK
360 minute winter	95	488	3.485	0.225	4.0	0.0000	0.0000	OK
15 minute winter	94	12	5.507	0.307	31.7	0.6430	0.0000	SURCHARGED
15 minute winter	93	12	5.404	0.504	59.7	1.0805	0.0000	SURCHARGED
15 minute winter	92	13	5.188	0.438	51.0	0.4949	0.0000	SURCHARGED
1440 minute winter	91	1440	4.975	0.425	6.6	0.4808	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)
720 minute winter	114	16.009	113	18.9	0.638	0.115	0.8139	
720 minute winter	113	16.010	112	4.0	0.247	0.034	0.6146	
720 minute winter	112	Hydro-Brake®	111	4.0				203.9
15 minute winter	110	33.000	108	20.7	1.177	1.480	0.4221	
15 minute winter	109	32.000	108	20.9	1.188	1.239	0.5833	
15 minute winter	108	32.001	107	67.9	1.706	1.340	0.8380	
15 minute winter	107	32.002	104	67.6	1.699	1.222	1.2538	
180 minute winter	106	34.000	105	3.8	0.746	0.074	0.6602	
960 minute winter	105	34.001	104	3.2	0.673	0.064	0.6840	
120 minute winter	104 - PP	35.000	104	5.1	0.571	0.166	0.1481	
960 minute winter	104	32.003	103	12.9	0.913	0.106	1.5540	
960 minute winter	103	32.004	98	13.7	0.487	0.106	2.6168	
15 minute winter	102	36.000	101	45.0	1.137	0.753	1.2044	
15 minute winter	101	36.001	100	54.6	1.653	0.834	1.3840	
15 minute winter	100	36.002	99	83.6	1.187	1.109	2.6566	
960 minute winter	99	36.003	113	12.3	0.424	0.211	4.3675	
960 minute winter	98	32.005	97	14.5	0.626	0.108	0.7329	
960 minute winter	97	32.006	96	3.7	0.193	0.026	0.6677	
960 minute winter	96	Hydro-Brake®	95	4.0				246.4
15 minute winter	94	12.000	93	28.3	0.814	0.628	1.5778	
15 minute winter	93	12.001	92	51.0	1.282	1.061	0.6978	
15 minute winter	92	12.002	91	50.5	1.270	1.091	1.0006	
1440 minute winter	91	12.003	89	6.6	0.700	0.177	1.1389	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	90	1410	4.978	0.528	3.6	48.8469	0.0000	FLOOD RISK
1440 minute winter	N8	1440	4.976	1.271	10.7	1.4371	0.0000	OK
1440 minute winter	89	1440	4.975	0.571	11.0	0.6459	0.0000	FLOOD RISK
1440 minute winter	88	1440	4.975	0.512	2.8	0.5792	0.0000	SURCHARGED
120 minute winter	87	98	5.093	0.493	24.4	47.8006	0.0000	SURCHARGED
1440 minute winter	86	1440	4.975	0.415	2.8	0.4695	0.0000	SURCHARGED
1440 minute winter	85	1440	4.975	0.375	0.1	0.4242	0.0000	SURCHARGED
1440 minute winter	84	1440	4.975	0.400	0.1	0.4525	0.0000	SURCHARGED
1440 minute winter	83	1410	4.976	0.501	2.9	47.9880	0.0000	SURCHARGED
1440 minute winter	82	1440	4.975	0.519	1.9	0.5871	0.0000	SURCHARGED
60 minute winter	81	40	6.300	0.800	34.4	26.3803	2.0621	FLOOD
30 minute winter	80	23	5.533	0.233	11.7	0.2632	0.0000	SURCHARGED
60 minute winter	79	40	6.000	0.775	34.4	26.3517	2.2797	FLOOD
30 minute winter	78	23	5.469	0.369	24.8	0.4177	0.0000	SURCHARGED
30 minute winter	77	22	5.440	0.490	26.3	0.5541	0.0000	SURCHARGED
30 minute winter	76	22	5.700	0.700	51.3	26.2672	4.0541	FLOOD
30 minute winter	75	22	5.416	0.616	37.5	0.6964	0.0000	FLOOD RISK
15 minute winter	73	12	6.145	0.745	27.5	1.6074	0.0000	FLOOD RISK
15 minute winter	72	12	6.103	0.828	51.8	1.9418	0.0000	FLOOD RISK
15 minute winter	71	13	5.819	0.719	77.2	1.6626	0.0000	FLOOD RISK
15 minute winter	70	12	5.414	0.314	8.2	0.3547	0.0000	SURCHARGED
15 minute winter	69	12	5.420	0.120	6.1	0.1357	0.0000	OK
120 minute winter	68	78	6.300	0.900	28.6	47.2508	3.2941	FLOOD
15 minute winter	67	13	5.642	0.467	33.8	0.5283	0.0000	SURCHARGED
60 minute winter	66	43	6.350	1.275	46.2	47.6747	1.9489	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	90	13.000	89	2.5	0.413	0.061	0.2815	
1440 minute winter	N8	Flow through pond	3	19.1	0.030	0.001	1287.0811	
1440 minute winter	89	12.004	N8	10.7	1.050	0.080	0.7407	
1440 minute winter	88	12.005	89	2.6	0.383	0.080	0.5896	
120 minute winter	87	14.000	86	5.0	0.612	0.124	0.1220	
1440 minute winter	86	12.006	88	2.8	0.487	0.085	0.9674	
1440 minute winter	85	12.007	86	-0.1	-0.006	-0.002	0.3942	
1440 minute winter	84	12.008	82	-0.1	-0.004	-0.001	0.4798	
1440 minute winter	83	15.000	82	1.9	0.566	0.065	0.2261	
1440 minute winter	82	12.009	38	1.8	0.726	0.024	0.5563	
60 minute winter	81	9.000	80	11.3	1.031	0.610	0.2094	
30 minute winter	80	9.001	78	13.7	0.979	0.824	0.2513	
60 minute winter	79	10.000	78	11.2	0.928	0.698	0.1077	
30 minute winter	78	9.002	77	26.3	0.946	0.532	0.6603	
30 minute winter	77	9.003	75	27.4	0.912	0.786	0.6563	
30 minute winter	76	11.000	75	10.8	0.954	0.624	0.0930	
30 minute winter	75	9.004	43	39.5	1.621	0.243	1.3966	
15 minute winter	73	8.000	72	22.0	0.682	0.539	0.8006	
15 minute winter	72	8.001	71	47.4	1.193	1.232	1.2592	
15 minute winter	71	8.002	48	71.8	1.806	1.778	0.6550	
15 minute winter	70	4.000	93	12.6	0.818	0.246	0.8213	
15 minute winter	69	4.001	70	8.2	0.962	0.118	0.3399	
120 minute winter	68	4.002	69	9.3	0.956	0.222	0.1501	
15 minute winter	67	4.003	65	-33.8	-0.890	-0.583	0.3849	
60 minute winter	66	5.000	65	11.7	0.716	0.388	0.2345	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	65	13	5.656	0.676	39.4	0.7644	0.0000	SURCHARGED
15 minute winter	64	13	5.655	0.755	79.5	0.8537	0.0000	SURCHARGED
15 minute winter	63	12	5.925	0.700	29.6	1.6882	0.0000	FLOOD RISK
60 minute winter	61	39	6.150	0.775	59.2	47.0042	5.2532	FLOOD
60 minute winter	60	39	5.326	0.106	18.6	0.1203	0.0000	OK
15 minute winter	59	12	5.580	0.580	42.3	1.1019	0.0000	SURCHARGED
15 minute winter	58	12	5.418	0.618	55.1	1.0598	0.0000	SURCHARGED
15 minute winter	57	13	5.718	0.643	49.6	2.0226	0.0000	FLOOD RISK
60 minute winter	56	41	6.350	1.475	46.6	47.9243	4.5785	FLOOD
15 minute winter	55	13	5.627	0.919	61.0	1.3149	0.0000	SURCHARGED
15 minute winter	54	13	5.613	0.951	52.7	1.3605	0.0000	SURCHARGED
15 minute winter	53	13	5.590	0.964	100.2	1.3796	0.0000	SURCHARGED
60 minute winter	52	42	5.900	0.950	46.6	47.3304	3.9859	FLOOD
15 minute winter	51	13	5.587	1.077	70.2	1.5411	0.0000	SURCHARGED
15 minute winter	50	14	5.563	1.095	95.2	2.4462	0.0000	FLOOD RISK
15 minute winter	49	14	5.551	1.109	84.7	2.3890	0.0000	FLOOD RISK
15 minute winter	48	14	5.544	1.125	132.6	2.3810	0.0000	FLOOD RISK
15 minute winter	47	14	5.479	1.111	162.9	2.9782	0.0000	FLOOD RISK
30 minute winter	43	21	5.403	1.174	181.6	3.6103	0.0000	FLOOD RISK
30 minute winter	42	21	5.295	1.120	199.1	3.1306	0.0000	FLOOD RISK
30 minute winter	41	21	5.150	1.125	217.9	3.1433	3.9700	FLOOD
30 minute winter	40	21	5.059	1.084	220.6	3.0539	0.0000	FLOOD RISK
1440 minute winter	39	1410	4.975	1.022	37.1	1.8061	0.0000	SURCHARGED
1440 minute winter	38	1440	4.975	1.042	37.5	1.8414	0.0000	FLOOD RISK
1440 minute winter	37	1440	4.975	1.270	37.5	2.2447	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	65	4.004	64	-38.8	0.558	-0.719	2.3531	
15 minute winter	64	4.005	55	-75.1	-1.166	-0.964	1.6644	
15 minute winter	63	3.000	59	23.6	1.341	1.363	0.2776	
60 minute winter	61	2.000	60	18.6	1.284	0.843	0.0752	
60 minute winter	60	1.001	127	18.6	1.237	0.414	0.5460	
15 minute winter	59	1.002	58	40.0	1.006	0.808	0.8759	
15 minute winter	58	1.003	119	53.0	1.332	1.371	0.8942	
15 minute winter	57	1.004	55	45.1	1.191	1.066	1.2977	
60 minute winter	56	6.000	55	10.8	0.694	0.361	0.2013	
15 minute winter	55	1.005	54	52.7	0.746	0.630	2.8461	
15 minute winter	54	1.006	53	59.9	0.709	0.720	2.2504	
15 minute winter	53	1.007	51	63.7	0.641	0.769	2.5879	
60 minute winter	52	7.000	51	10.5	1.257	0.410	0.1195	
15 minute winter	51	1.008	50	76.6	0.521	0.639	4.7357	
15 minute winter	50	1.009	49	84.7	0.559	0.705	2.9214	
15 minute winter	49	1.010	48	90.4	0.592	0.750	2.5688	
15 minute winter	48	1.011	47	122.0	0.880	1.018	5.7613	
15 minute winter	47	1.012	43	144.5	0.928	0.648	4.6021	
30 minute winter	43	1.016	42	181.9	1.148	1.175	3.6813	
30 minute winter	42	1.017	41	198.6	1.254	0.827	4.2889	
30 minute winter	41	1.018	40	197.9	1.249	1.089	2.4809	
30 minute winter	40	1.019	39	217.0	1.370	1.975	2.9467	
1440 minute winter	39	1.020	38	37.1	0.512	0.336	2.6571	
1440 minute winter	38	1.021	37	37.5	0.660	0.341	0.5357	
1440 minute winter	37	Flow through pond	3	19.1	0.030	0.001	1287.0811	

Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	36	1440	4.975	0.825	13.0	411.5444	0.0000	FLOOD RISK
1440 minute winter	35	1440	4.975	1.270	11.8	1.4363	0.0000	OK
60 minute winter	32	42	5.125	1.250	32.3	27.5446	0.7201	FLOOD
60 minute winter	31	41	4.900	1.125	32.3	27.4035	1.4003	FLOOD
120 minute winter	30	96	4.948	0.648	18.0	32.6969	0.0000	FLOOD RISK
120 minute winter	29	96	4.945	0.645	18.0	32.4807	0.0000	FLOOD RISK
1440 minute winter	28	1410	4.597	0.458	6.1	0.5176	0.0000	SURCHARGED
15 minute winter	27	12	4.910	0.160	33.1	0.3972	0.0000	OK
15 minute winter	26	12	4.844	0.369	66.1	0.9138	0.0000	SURCHARGED
1440 minute winter	25	1410	4.597	0.594	9.2	1.0738	0.0000	SURCHARGED
1440 minute winter	24	1410	4.597	0.697	10.4	1.2678	0.0000	SURCHARGED
1440 minute winter	23	1410	4.597	0.988	13.5	1.4131	0.0000	SURCHARGED
1440 minute winter	22	1410	4.597	1.022	13.1	1.4618	0.0000	SURCHARGED
1440 minute winter	21	1410	4.596	1.069	12.9	1.5304	0.0000	FLOOD RISK
15 minute winter	20	11	5.002	0.702	28.9	1.6187	0.0000	FLOOD RISK
15 minute winter	19	11	4.900	0.825	53.3	1.9033	1.3002	FLOOD
60 minute winter	18	51	4.873	0.448	16.5	16.1088	0.0000	SURCHARGED
60 minute winter	17	51	5.048	0.448	16.5	16.1067	0.0000	SURCHARGED
15 minute winter	16	12	4.959	0.635	15.0	0.7180	0.0000	SURCHARGED
15 minute winter	15	12	4.961	0.787	26.2	1.4220	0.0000	SURCHARGED
15 minute winter	14	12	4.940	0.816	42.1	1.5078	0.0000	SURCHARGED
15 minute winter	13	12	4.701	0.951	103.0	2.0865	0.0000	FLOOD RISK
1440 minute winter	12	1410	4.597	0.925	10.9	2.0496	0.0000	FLOOD RISK
1440 minute winter	11	1410	4.596	0.994	12.0	55.8311	0.0000	FLOOD RISK
1440 minute winter	10	1410	4.599	0.799	5.6	105.0401	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	36	38.000	35	-11.8	-0.668	-0.882	0.1238	
1440 minute winter	35	Flow through pond	3	19.1	0.030	0.001	1287.0811	
60 minute winter	32	30.000	23	11.0	0.764	0.325	0.9839	
60 minute winter	31	31.000	23	10.4	0.706	0.344	0.1837	
120 minute winter	30	28.000	28	4.0	0.649	0.302	0.0944	
120 minute winter	29	29.000	28	4.0	0.956	0.170	0.0204	
1440 minute winter	28	28.001	25	4.8	0.574	0.159	0.7229	
15 minute winter	27	27.000	26	33.1	1.082	0.624	0.9282	
15 minute winter	26	27.001	25	58.0	1.606	0.815	0.8468	
1440 minute winter	25	27.002	24	9.1	0.718	0.129	1.7691	
1440 minute winter	24	27.003	23	10.1	0.825	0.104	1.9787	
1440 minute winter	23	27.004	22	13.1	0.506	0.156	2.0770	
1440 minute winter	22	27.005	21	12.9	0.562	0.156	3.0215	
1440 minute winter	21	27.006	8	12.8	0.657	0.098	1.4773	
15 minute winter	20	25.000	19	26.1	0.813	0.564	1.1273	
15 minute winter	19	25.001	13	39.9	1.004	0.852	1.2212	
60 minute winter	18	23.000	16	3.8	0.456	0.288	0.2518	
60 minute winter	17	24.000	16	3.3	0.602	0.245	0.0247	
15 minute winter	16	23.001	15	12.7	0.865	0.959	0.2345	
15 minute winter	15	23.002	14	22.8	0.690	0.757	0.5861	
15 minute winter	14	23.003	13	36.9	0.931	0.830	1.6231	
15 minute winter	13	23.004	12	101.5	1.441	1.909	2.3591	
1440 minute winter	12	23.005	11	10.8	0.508	0.203	2.1176	
1440 minute winter	11	23.006	9	11.2	0.593	0.209	0.9225	
1440 minute winter	10	26.000	9	-2.8	0.759	-0.127	0.0876	



Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.43%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	9	1410	4.596	1.100	11.2	1.5748	0.0000	FLOOD RISK
1440 minute winter	8	1410	4.596	1.277	20.1	2.2572	0.0000	FLOOD RISK
1440 minute winter	7	1410	4.598	1.732	20.0	3.0606	0.0000	OK
1440 minute winter	6	1410	4.596	1.746	12.9	3.0576	0.0000	FLOOD RISK
1440 minute winter	5	1410	4.596	1.763	3.4	1.9937	0.0000	FLOOD RISK
600 minute winter	4	735	3.397	0.575	3.4	0.0000	0.0000	OK
1440 minute winter	3	1440	4.975	1.325	22.5	3.8808	0.0000	FLOOD RISK
1440 minute winter	2	1440	4.975	1.340	3.9	2.3669	0.0000	FLOOD RISK
360 minute winter	1	488	3.851	0.225	3.8	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)
1440 minute winter	9	23.007	8	9.4	0.547	0.112	1.6463	
1440 minute winter	8	23.008	7	20.0	0.586	0.116	1.1750	
1440 minute winter	7	Flow through pond	6	11.4	0.021	0.000	667.2268	
1440 minute winter	6	37.000	5	3.4	0.176	0.112	0.1913	
1440 minute winter	5	37.001	4	3.4	0.085	0.109	0.1229	274.8
1440 minute winter	3	39.000	2	3.9	0.107	0.128	0.1736	
1440 minute winter	2	39.001	1	3.8	0.434	0.124	0.0998	308.9