



Banners Gate Limited
10-11 Birmingham Street
Halesowen
B63 3HN

File: MASTER NETWORK 51 - 2021.08.2
Network: Storm Network 51
Oliver Bayley
30/08/2021

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Dappers Lane
SW SUPER NETWORK

Design Settings

Rainfall Methodology	FEH-13	Minimum Velocity (m/s)	1.00
Return Period (years)	30	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	1.800
CV	1.000	Preferred Cover Depth (m)	0.450
Time of Entry (mins)	4.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	50.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	500.0		

Circular Default Sewer Type Link Type

Shape Circular | Barrels 1 | Auto Increment (mm) 75 | Follow Ground x

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
02	0.020	4.00	23.564	1200	507240.876	105171.288	1.212
102	0.020	4.00	25.400	525	507202.864	105211.774	0.900
104	0.006	4.00	25.600	525	507213.901	105211.774	1.300
106	0.018	4.00	24.950	525	507213.901	105199.813	0.900
108	0.015	4.00	24.400	525	507219.559	105184.605	0.900
110	0.004	4.00	24.450	525	507219.593	105179.530	0.950
112	0.010	4.00	24.200	1200	507223.759	105180.406	1.100
114	0.011	4.00	23.420	525	507219.140	105150.683	0.620
116	0.009	4.00	23.650	525	507230.480	105152.122	1.050
118	0.002	4.00	23.650	525	507229.080	105163.150	1.160
04	0.040	4.00	23.764	2400	507226.183	105168.617	2.675
06	0.020	4.00	23.919	2400	507207.248	105164.408	2.869
120	0.009	4.00	24.300	525	507194.453	105172.440	0.850



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Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
122	0.011	4.00	24.370	525	507184.507	105173.800	1.070
124	0.009	4.00	24.450	525	507177.536	105174.815	1.300
CS01	0.000	4.00	23.000	100	507174.307	105148.305	1.900
126	0.012	4.00	23.650	525	507178.543	105152.187	1.650
VC01	0.000		23.700	1200	507174.684	105155.298	2.650
08	0.056	4.00	24.162	2400	507173.799	105167.542	3.180
128	0.013	4.00	24.550	525	507165.858	105188.408	0.750
130	0.005	4.00	24.570	525	507160.575	105179.970	1.070
132	0.009	4.00	25.750	525	507170.934	105219.507	0.700
134	0.011	4.00	25.400	525	507170.934	105207.090	0.800
136	0.005	4.00	25.100	525	507172.361	105195.883	0.650
138	0.020	4.00	25.200	525	507160.060	105203.587	1.000
140	0.011	4.00	24.950	525	507151.371	105189.707	1.000
142	0.005	4.00	27.700	525	507096.598	105279.374	0.600
144	0.006	4.00	27.700	525	507114.150	105262.343	0.750
146	0.018	4.00	27.250	525	507096.598	105262.343	0.700
148	0.013	4.00	26.400	525	507070.543	105260.132	0.800
150	0.025	4.00	26.850	525	507086.122	105272.189	0.750
152	0.000		26.480	525	507086.122	105260.132	1.180
154	0.006	4.00	26.350	525	507089.511	105257.466	1.250
156	0.007	4.00	25.300	525	507056.674	105237.987	0.650
158	0.008	4.00	25.350	525	507071.874	105237.982	0.900
160	0.008	4.00	25.500	525	507073.869	105254.472	0.700
162	0.011	4.00	25.600	525	507075.006	105244.781	1.300
164	0.021	4.00	26.040	525	507089.511	105244.781	1.990
166	0.006	4.00	26.150	525	507105.369	105242.488	2.300
168	0.008	4.00	25.500	525	507105.369	105226.926	1.850
170	0.003	4.00	25.250	525	507105.369	105213.036	1.750
172	0.007	4.00	25.020	525	507117.754	105205.281	0.770
174	0.000		25.000	525	507114.370	105207.400	1.600



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Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
10	0.040	4.00	24.790	2400	507110.908	105201.791	3.790
176	0.018	4.00	24.980	525	507129.293	105201.532	0.580
178	0.006	4.00	24.950	525	507141.324	105193.998	1.150
CC12	0.000		24.443	3000	507144.806	105180.615	3.525
180	0.013	4.00	24.800	525	507109.457	105193.725	0.750
182	0.004	4.00	24.600	525	507102.557	105181.560	0.750
184	0.014	4.00	24.730	525	507124.506	105186.860	0.630
186	0.002	4.00	24.550	525	507116.894	105173.410	1.000
188	0.001	4.00	24.450	525	507117.693	105169.932	0.950
190	0.004	4.00	24.650	525	507136.791	105180.630	0.700
192	0.002	4.00	24.600	525	507138.658	105175.734	0.750
194	0.000		23.600	525	507129.844	105163.229	2.300
14	0.000		23.250	1350	507132.754	105160.992	2.750
196	0.020	4.00	23.200	525	507228.404	105137.206	0.850
198	0.010	4.00	23.000	525	507201.103	105132.687	0.950
200	0.012	4.00	22.850	525	507176.436	105130.257	0.650
202	0.002	4.00	22.900	525	507183.056	105131.242	1.050
204	0.022	4.00	23.400	525	507182.169	105142.311	1.800
206	0.000		22.800	525	507139.401	105138.886	1.600
208	0.008	4.00	23.000	525	507126.758	105162.492	0.750
210	0.014	4.00	22.820	525	507120.123	105149.344	0.870
212	0.012	4.00	22.550	525	507115.234	105140.663	1.750
16	0.021	4.00	22.400	1200	507115.245	105136.952	2.400
214	0.056	4.00	26.500	525	507058.403	105277.808	1.100
216	0.014	4.00	25.960	525	507024.383	105277.808	1.060
218	0.023	4.00	25.530	525	507021.074	105268.810	1.080
220	0.012	4.00	24.650	525	507021.073	105251.228	0.900
222	0.011	4.00	23.400	525	507012.666	105232.774	0.800
224	0.021	4.00	23.050	525	507011.205	105221.107	1.250
18	0.021	4.00	22.729	2100	507015.499	105209.464	2.229

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
226	0.013	4.00	24.300	525	507069.086	105221.633	0.600
228	0.012	4.00	24.350	525	507069.086	105215.460	1.150
230	0.018	4.00	23.600	525	507046.868	105225.541	0.600
232	0.009	4.00	23.700	525	507046.868	105215.460	1.000
234	0.010	4.00	22.950	525	507026.410	105224.220	0.650
236	0.000		23.100	525	507026.410	105215.460	1.100
20	0.042	4.00	22.855	2100	507026.709	105209.456	2.378
238	0.005	4.00	25.250	525	507089.511	105224.922	1.450
CS02	0.000	4.00	25.000	100	507084.966	105227.575	3.550
VC02	0.019	4.00	25.000	1200	507084.942	105221.081	3.600
22	0.025	4.00	24.557	2100	507083.752	105209.677	4.121
24	0.019	4.00	23.997	2400	507065.517	105209.127	3.598
26	0.000		23.450	2100	507065.579	105190.835	3.088
CC28	0.000		23.000	2700	507070.479	105178.486	2.665
240	0.014	4.00	24.500	525	507079.959	105199.571	1.100
242	0.013	4.00	24.600	525	507091.250	105199.567	1.350
244	0.002	4.00	24.250	525	507091.242	105184.526	1.200
246	0.002	4.00	24.250	525	507080.950	105184.528	1.350
248	0.010	4.00	23.500	525	507080.949	105177.541	0.900
250	0.013	4.00	23.200	525	507096.848	105163.026	0.750
252	0.010	4.00	22.800	525	507075.716	105163.026	1.500
30	0.010	4.00	22.500	1200	507070.415	105162.319	2.450
32	0.000		22.300	1200	507068.066	105153.606	2.400
254	0.029	4.00	22.550	525	507064.378	105178.426	1.050
256	0.009	4.00	22.200	525	507047.889	105160.931	0.800
258	0.019	4.00	22.350	525	507064.378	105160.931	1.200
260	0.018	4.00	21.700	525	507047.889	105139.607	0.900
262	0.012	4.00	21.850	525	507064.378	105139.613	1.350
34	0.007	4.00	21.850	1350	507068.080	105136.972	2.200
264	0.009	4.00	22.450	525	507082.807	105153.066	0.800



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Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
266	0.017	4.00	22.200	525	507082.805	105140.266	1.900
36	0.000		22.050	1350	507082.068	105136.455	2.550
BASIN	0.115	4.00	20.100	100	507062.287	105099.787	1.400
268	0.012	4.00	23.500	525	507049.500	105203.176	0.800
270	0.002	4.00	22.900	525	507049.495	105184.576	0.800
272	0.011	4.00	23.100	525	507038.021	105199.616	0.700
274	0.005	4.00	22.700	525	507038.018	105184.579	0.800
276	0.011	4.00	22.900	525	507025.410	105202.836	0.700
278	0.002	4.00	22.500	525	507025.410	105184.579	0.800
280	0.004	4.00	22.500	525	507019.849	105184.580	1.100
282	0.008	4.00	21.950	525	507019.849	105179.771	0.900
284	0.037	4.00	21.400	525	507019.849	105169.568	0.950
286	0.016	4.00	21.100	525	507019.849	105151.094	1.100
288	0.022	4.00	20.900	525	507019.849	105139.805	1.300
290	0.014	4.00	20.700	525	507031.873	105129.473	1.300
292	0.013	4.00	20.450	525	507013.216	105131.391	0.880
294	0.019	4.00	20.480	525	507017.802	105127.053	0.980
296	0.005	4.00	20.650	525	507031.873	105126.188	1.300
298	0.012	4.00	21.300	525	507069.178	105120.750	0.750
300	0.006	4.00	21.630	525	507061.447	105113.593	1.280
302	0.010	4.00	20.800	525	507047.539	105108.185	0.700
304	0.009	4.00	20.600	525	507031.867	105106.140	1.600
306	0.007	4.00	20.400	525	507015.556	105106.149	1.550
CC38	0.000		20.600	2700	507014.716	105096.030	1.950
40	0.000		19.500	1200	507000.669	105107.072	1.200
42	0.000		19.800	1200	507000.661	105123.206	1.800
44	0.000		18.225	1200	506924.239	105122.429	1.775
46	0.000		16.662	1200	506864.075	105085.080	1.712
48	0.000		15.395	1200	506764.500	105079.989	2.995
50	0.000		13.482	1200	506748.330	105079.194	1.933

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	02	04	14.934	0.600	22.352	22.289	0.063	237.0	300	4.15	140.2
2.000	102	104	10.600	0.600	24.500	24.350	0.150	70.7	100	4.18	140.2
2.001	104	106	11.450	0.600	24.300	24.050	0.250	45.8	150	4.32	140.2
2.002	106	108	15.700	0.600	24.050	23.500	0.550	28.5	150	4.52	140.2
2.003	108	112	5.400	0.600	23.500	23.250	0.250	21.6	150	4.58	140.2
3.000	110	112	3.700	0.600	23.500	23.300	0.200	18.5	100	4.07	140.2
2.004	112	04	11.600	0.600	23.100	22.289	0.811	14.3	300	4.66	140.2
4.000	114	116	10.900	0.600	22.800	22.650	0.150	72.7	100	4.19	140.2
4.001	116	118	10.600	0.600	22.600	22.490	0.110	96.4	150	4.38	140.2
4.002	118	04	5.600	0.600	22.490	22.439	0.051	109.8	150	4.48	140.2
1.001	04	06	19.397	0.600	21.089	21.050	0.039	497.4	1500	4.99	140.2
1.002	06	08	33.595	0.600	21.050	20.982	0.068	494.0	1500	5.55	135.5
5.000	120	122	9.500	0.600	23.450	23.300	0.150	63.3	100	4.17	140.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.000	1.017	71.9	10.1	0.912	1.175	0.020	0.0
2.000	0.917	7.2	10.1	0.800	1.150	0.020	0.0
2.001	1.490	26.3	13.2	1.150	0.750	0.026	0.0
2.002	1.891	33.4	22.3	0.750	0.750	0.044	0.0
2.003	2.176	38.5	29.9	0.750	0.800	0.059	0.0
3.000	1.804	14.2	2.0	0.850	0.800	0.004	0.0
2.004	4.178	295.3	37.0	0.800	1.175	0.073	0.0
4.000	0.904	7.1	5.6	0.520	0.900	0.011	0.0
4.001	1.024	18.1	10.1	0.900	1.010	0.020	0.0
4.002	0.958	16.9	11.1	1.010	1.175	0.022	0.0
1.001	1.916	3386.1	78.5	1.175	1.369	0.155	0.0
1.002	1.923	3397.5	85.7	1.369	1.680	0.175	0.0
5.000	0.969	7.6	4.6	0.750	0.970	0.009	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
5.001	122	124	6.500	0.600	23.300	23.200	0.100	65.0	100	4.28	140.2
5.002	124	08	7.600	0.600	23.150	22.332	0.818	9.3	150	4.32	140.2
6.000	CS01	VC01	5.001	0.600	21.100	21.050	0.050	100.0	150	4.12	140.2
7.000	126	VC01	4.500	0.600	22.000	21.050	0.950	4.7	150	4.04	140.2
6.001	VC01	08	12.276	0.600	21.050	20.982	0.068	180.5	300	4.21	140.2
1.003	08	CC12	31.804	0.600	20.982	20.918	0.064	496.9	1500	6.00	131.5
8.000	128	130	9.400	0.600	23.800	23.550	0.250	37.6	100	4.12	140.2
8.001	130	CC12	15.300	0.600	23.500	22.268	1.232	12.4	150	4.38	140.2
9.000	132	134	11.900	0.600	25.050	24.600	0.450	26.4	100	4.12	140.2
9.001	134	138	10.900	0.600	24.600	24.250	0.350	31.1	100	4.22	140.2
10.000	136	138	14.000	0.600	24.450	24.250	0.200	70.0	100	4.24	140.2
9.002	138	140	15.800	0.600	24.200	23.950	0.250	63.2	150	4.51	140.2
9.003	140	CC12	10.700	0.600	23.950	22.268	1.682	6.4	150	4.70	140.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
5.001	0.956	7.5	10.1	0.970	1.150	0.020	0.0
5.002	3.325	58.8	14.7	1.150	1.680	0.029	0.0
6.000	1.004	17.8	0.0	1.750	2.500	0.000	0.0
7.000	4.662	82.4	6.1	1.500	2.500	0.012	0.0
6.001	1.167	82.5	6.1	2.350	2.880	0.012	0.0
1.003	1.917	3387.6	129.3	1.680	2.025	0.272	0.0
8.000	1.261	9.9	6.6	0.650	0.920	0.013	0.0
8.001	2.874	50.8	9.1	0.920	2.025	0.018	0.0
9.000	1.507	11.8	4.6	0.600	0.700	0.009	0.0
9.001	1.387	10.9	10.1	0.700	0.850	0.020	0.0
10.000	0.921	7.2	2.5	0.550	0.850	0.005	0.0
9.002	1.267	22.4	22.8	0.850	0.850	0.045	0.0
9.003	4.021	71.1	28.4	0.850	2.025	0.056	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
11.000	142	146	16.500	0.600	27.100	26.600	0.500	33.0	100	4.21	140.2
12.000	144	146	17.000	0.600	26.950	26.600	0.350	48.6	100	4.51	140.2
11.001	146	154	8.100	0.600	26.550	25.100	1.450	5.6	150	4.68	140.2
13.000	148	152	15.050	0.600	25.600	25.350	0.250	60.2	100	4.42	140.2
14.000	150	152	11.500	0.600	26.100	25.300	0.800	14.4	150	4.16	140.2
13.001	152	154	3.800	0.600	25.300	25.100	0.200	19.0	150	4.49	140.2
11.002	154	164	12.150	0.600	25.100	24.125	0.975	12.5	150	4.89	140.2
15.000	156	158	14.700	0.600	24.650	24.450	0.200	73.5	100	4.25	140.2
15.001	158	162	6.950	0.600	24.450	24.350	0.100	69.5	100	4.29	140.2
16.000	160	162	7.250	0.600	24.800	24.350	0.450	16.1	100	4.07	140.2
15.002	162	164	14.000	0.600	24.300	24.125	0.175	80.0	150	4.52	140.2
11.003	164	166	15.500	0.600	24.050	23.850	0.200	77.5	225	5.16	138.9
11.004	166	168	15.150	0.600	23.850	23.650	0.200	75.8	225	5.42	136.6

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
11.000	1.347	10.6	2.5	0.500	0.550	0.005	0.0
12.000	1.108	8.7	3.0	0.650	0.550	0.006	0.0
11.001	4.292	75.8	14.7	0.550	1.100	0.029	0.0
13.000	0.994	7.8	6.6	0.700	1.030	0.013	0.0
14.000	2.670	47.2	12.7	0.600	1.030	0.025	0.0
13.001	2.321	41.0	19.3	1.030	1.100	0.038	0.0
11.002	2.869	50.7	37.0	1.100	1.765	0.073	0.0
15.000	0.899	7.1	3.5	0.550	0.800	0.007	0.0
15.001	0.924	7.3	7.6	0.800	1.150	0.015	0.0
16.000	1.934	15.2	4.1	0.600	1.150	0.008	0.0
15.002	1.125	19.9	17.2	1.150	1.765	0.034	0.0
11.003	1.487	59.1	64.3	1.765	2.075	0.128	0.0
11.004	1.504	59.8	66.2	2.075	1.625	0.134	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
11.005	168	170	13.400	0.600	23.650	23.500	0.150	89.3	225	5.65	134.6
11.006	170	174	10.100	0.600	23.500	23.400	0.100	101.0	225	5.82	133.0
17.000	172	174	3.400	0.600	24.250	23.525	0.725	4.7	100	4.07	140.2
11.007	174	10	6.100	0.600	23.400	22.275	1.125	5.4	225	5.93	132.1
11.008	10	CC12	39.969	0.600	21.000	20.918	0.082	487.4	1500	6.60	126.7
18.000	176	178	13.700	0.600	24.400	23.850	0.550	24.9	100	4.24	140.2
18.001	178	CC12	13.300	0.600	23.800	22.268	1.532	8.7	150	4.47	140.2
1.004	CC12	14	23.029	0.600	20.918	20.500	0.418	55.1	300	6.79	125.2
19.000	180	182	13.300	0.600	24.050	23.850	0.200	66.5	100	4.36	140.2
19.001	182	186	16.000	0.600	23.850	23.600	0.250	64.0	100	4.63	140.2
20.000	184	186	14.950	0.600	24.100	23.600	0.500	29.9	100	4.25	140.2
19.002	186	188	3.100	0.600	23.550	23.500	0.050	62.0	150	4.69	140.2
19.003	188	194	13.350	0.600	23.500	21.300	2.200	6.1	150	4.92	140.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
11.005	1.384	55.0	69.1	1.625	1.525	0.142	0.0
11.006	1.301	51.7	69.7	1.525	1.375	0.145	0.0
17.000	3.595	28.2	3.5	0.670	1.375	0.007	0.0
11.007	5.656	224.9	72.6	1.375	2.290	0.152	0.0
11.008	1.936	3420.7	87.9	2.290	2.025	0.192	0.0
18.000	1.553	12.2	9.1	0.480	1.000	0.018	0.0
18.001	3.440	60.8	12.2	1.000	2.025	0.024	0.0
1.004	2.122	150.0	254.3	3.225	2.450	0.562	0.0
19.000	0.945	7.4	6.6	0.650	0.650	0.013	0.0
19.001	0.964	7.6	8.6	0.650	0.850	0.017	0.0
20.000	1.416	11.1	7.1	0.530	0.850	0.014	0.0
19.002	1.279	22.6	16.7	0.850	0.800	0.033	0.0
19.003	4.117	72.8	17.2	0.800	2.150	0.034	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
21.000	190	192	4.700	0.600	23.950	23.850	0.100	47.0	100	4.06	140.2
21.001	192	194	14.800	0.600	23.850	21.350	2.500	5.9	100	4.23	140.2
19.004	194	14	3.150	0.600	21.300	20.650	0.650	4.8	150	4.99	140.2
1.005	14	16	29.740	0.600	20.500	20.000	0.500	59.5	300	7.28	121.5
22.000	196	198	27.100	0.600	22.350	22.050	0.300	90.3	150	4.46	140.2
22.001	198	202	17.600	0.600	22.050	21.850	0.200	88.0	150	4.76	140.2
23.000	200	202	6.200	0.600	22.200	21.900	0.300	20.7	100	4.06	140.2
22.002	202	204	10.600	0.600	21.850	21.675	0.175	60.6	150	4.95	140.2
22.003	204	206	42.400	0.600	21.600	21.200	0.400	106.0	225	5.66	134.5
22.004	206	16	23.700	0.600	21.200	20.075	1.125	21.1	225	6.07	131.0
24.000	208	210	14.200	0.600	22.250	22.000	0.250	56.8	100	4.39	140.2
24.001	210	212	9.400	0.600	21.950	20.850	1.100	8.5	150	4.55	140.2
24.002	212	16	3.200	0.600	20.800	20.150	0.650	4.9	150	4.62	140.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
21.000	1.127	8.9	2.0	0.600	0.650	0.004	0.0
21.001	3.199	25.1	3.0	0.650	2.150	0.006	0.0
19.004	4.609	81.4	20.3	2.150	2.450	0.040	0.0
1.005	2.042	144.3	264.3	2.450	2.100	0.602	0.0
22.000	1.058	18.7	10.1	0.700	0.800	0.020	0.0
22.001	1.072	18.9	15.2	0.800	0.900	0.030	0.0
23.000	1.706	13.4	6.1	0.550	0.900	0.012	0.0
22.002	1.294	22.9	22.3	0.900	1.575	0.044	0.0
22.003	1.269	50.5	32.1	1.575	1.375	0.066	0.0
22.004	2.863	113.8	31.2	1.375	2.100	0.066	0.0
24.000	1.024	8.0	4.1	0.650	0.720	0.008	0.0
24.001	3.467	61.3	11.1	0.720	1.550	0.022	0.0
24.002	4.573	80.8	17.2	1.600	2.100	0.034	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.006	16	36	33.181	0.600	20.000	19.500	0.500	66.4	300	7.64	119.0
25.000	214	216	33.500	0.600	25.400	24.975	0.425	78.8	150	4.43	140.2
25.001	216	218	9.100	0.600	24.900	24.525	0.375	24.3	225	4.53	140.2
25.002	218	220	17.100	0.600	24.450	23.750	0.700	24.4	225	4.70	140.2
25.003	220	222	19.800	0.600	23.750	22.600	1.150	17.2	225	4.89	140.2
25.004	222	224	11.250	0.600	22.600	21.800	0.800	14.1	225	5.01	140.2
25.005	224	18	11.900	0.600	21.800	21.475	0.325	36.6	225	5.21	138.4
25.006	18	20	11.210	0.600	20.500	20.477	0.023	487.4	1200	5.40	136.7
26.000	226	228	5.700	0.600	23.700	23.250	0.450	12.7	100	4.05	140.2
26.001	228	232	21.700	0.600	23.200	22.700	0.500	43.4	150	4.42	140.2
27.000	230	232	9.600	0.600	23.000	22.750	0.250	38.4	100	4.11	140.2
26.002	232	236	19.950	0.600	22.700	22.000	0.700	28.5	150	4.76	140.2
28.000	234	236	8.250	0.600	22.300	22.050	0.250	33.0	100	4.13	140.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.006	1.933	136.6	310.9	2.100	2.250	0.723	0.0
25.000	1.133	20.0	28.4	0.950	0.835	0.056	0.0
25.001	2.667	106.0	35.5	0.835	0.780	0.070	0.0
25.002	2.658	105.7	47.1	0.855	0.675	0.093	0.0
25.003	3.168	126.0	53.2	0.675	0.575	0.105	0.0
25.004	3.507	139.4	58.8	0.575	1.025	0.116	0.0
25.005	2.169	86.2	68.5	1.025	1.029	0.137	0.0
25.006	1.687	1908.5	78.1	1.029	1.178	0.158	0.0
26.000	2.183	17.1	6.6	0.500	1.000	0.013	0.0
26.001	1.531	27.1	12.7	1.000	0.850	0.025	0.0
27.000	1.248	9.8	9.1	0.500	0.850	0.018	0.0
26.002	1.893	33.4	26.3	0.850	0.950	0.052	0.0
28.000	1.347	10.6	5.1	0.550	0.950	0.010	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
26.003	236	20	5.500	0.600	22.000	21.527	0.473	11.6	150	4.86	140.2
25.007	20	24	38.809	0.600	20.477	20.399	0.078	497.6	1200	6.05	131.1
29.000	CS02	VC02	5.001	0.600	21.450	21.400	0.050	100.0	300	4.10	140.2
30.000	238	VC02	5.969	0.600	23.800	21.550	2.250	2.7	150	4.18	140.2
29.001	VC02	22	11.466	0.600	21.400	21.336	0.064	179.2	300	4.34	140.2
29.002	22	24	18.243	0.600	20.436	20.399	0.037	493.1	1200	4.56	140.2
25.008	24	26	18.292	0.600	20.399	20.362	0.037	494.4	1200	6.35	128.7
25.009	26	CC28	13.286	0.600	20.362	20.335	0.027	492.1	1200	6.57	126.9
25.010	CC28	30	16.167	0.600	20.335	20.050	0.285	56.7	300	6.84	124.8
31.000	240	242	10.800	0.600	23.400	23.250	0.150	72.0	100	4.19	140.2
31.001	242	244	14.500	0.600	23.250	23.050	0.200	72.5	100	4.44	140.2
31.002	244	246	9.800	0.600	23.050	22.900	0.150	65.3	100	4.61	140.2
31.003	246	248	6.500	0.600	22.900	22.650	0.250	26.0	100	4.73	140.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
26.003	2.971	52.5	31.4	0.950	1.178	0.062	0.0
25.007	1.670	1888.8	124.1	1.178	2.398	0.262	0.0
29.000	1.572	111.1	0.0	3.250	3.300	0.000	0.0
30.000	6.234	110.2	2.5	1.300	3.300	0.005	0.0
29.001	1.171	82.8	12.2	3.300	2.921	0.024	0.0
29.002	1.678	1897.4	24.8	2.921	2.398	0.049	0.0
25.008	1.675	1894.9	153.5	2.398	1.888	0.330	0.0
25.009	1.679	1899.3	151.3	1.888	1.465	0.330	0.0
25.010	2.091	147.8	148.8	2.365	2.150	0.330	0.0
31.000	0.908	7.1	7.1	1.000	1.250	0.014	0.0
31.001	0.905	7.1	13.7	1.250	1.100	0.027	0.0
31.002	0.954	7.5	14.7	1.100	1.250	0.029	0.0
31.003	1.519	11.9	15.7	1.250	0.750	0.031	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
31.004	248	252	14.900	0.600	22.600	21.300	1.300	11.5	150	4.91	140.2
32.000	250	252	20.700	0.600	22.450	21.350	1.100	18.8	100	4.34	140.2
31.005	252	30	4.900	0.600	21.300	20.200	1.100	4.5	150	5.00	140.2
25.011	30	32	8.500	0.600	20.050	19.900	0.150	56.7	300	6.99	123.6
25.012	32	34	16.100	0.600	19.900	19.650	0.250	64.4	300	7.27	121.6
33.000	254	258	16.950	0.600	21.500	21.150	0.350	48.4	150	4.14	140.2
34.000	256	258	15.400	0.600	21.400	21.200	0.200	77.0	100	4.27	140.2
33.001	258	262	20.800	0.600	21.150	20.500	0.650	32.0	150	4.57	140.2
35.000	260	262	15.950	0.600	20.800	20.550	0.250	63.8	100	4.27	140.2
33.002	262	34	4.000	0.600	20.500	19.800	0.700	5.7	150	4.65	140.2
25.013	34	36	13.998	0.600	19.650	19.500	0.150	93.3	300	7.50	120.0
36.000	264	266	12.300	0.600	21.650	20.350	1.300	9.5	100	4.17	140.2
36.001	266	36	3.100	0.600	20.300	19.650	0.650	4.8	150	4.23	140.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
31.004	2.992	52.9	20.8	0.750	1.350	0.041	0.0
32.000	1.788	14.0	6.6	0.650	1.350	0.013	0.0
31.005	4.808	85.0	32.4	1.350	2.150	0.064	0.0
25.011	2.092	147.9	180.5	2.150	2.100	0.404	0.0
25.012	1.962	138.7	177.5	2.100	1.900	0.404	0.0
33.000	1.449	25.6	14.7	0.900	1.050	0.029	0.0
34.000	0.878	6.9	4.6	0.700	1.050	0.009	0.0
33.001	1.786	31.6	28.9	1.050	1.200	0.057	0.0
35.000	0.965	7.6	9.1	0.800	1.200	0.018	0.0
33.002	4.243	75.0	44.1	1.200	1.900	0.087	0.0
25.013	1.628	115.1	216.0	1.900	2.250	0.498	0.0
36.000	2.527	19.8	4.6	0.700	1.750	0.009	0.0
36.001	4.646	82.1	13.2	1.750	2.250	0.026	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.007	36	BASIN	12.263	0.600	19.500	19.400	0.100	122.6	300	8.34	114.4
1.008	BASIN	CC38	5.666	0.600	18.700	18.650	0.050	113.3	450	9.13	109.5
1.009	CC38	40	17.867	0.600	18.650	18.300	0.350	51.0	150	9.43	107.9
37.000	268	270	18.100	0.600	22.700	22.100	0.600	30.2	100	4.23	140.2
37.001	270	274	10.950	0.600	22.100	21.950	0.150	73.0	100	4.39	140.2
38.000	272	274	14.550	0.600	22.400	21.950	0.450	32.3	100	4.28	140.2
37.002	274	278	12.100	0.600	21.900	21.700	0.200	60.5	150	4.55	140.2
39.000	276	278	17.750	0.600	22.200	21.750	0.450	39.4	100	4.69	140.2
37.003	278	280	5.050	0.600	21.700	21.400	0.300	16.8	150	4.76	140.2
37.004	280	282	4.300	0.600	21.400	21.125	0.275	15.6	150	4.82	140.2
37.005	282	284	9.700	0.600	21.050	20.450	0.600	16.2	225	4.93	140.2
37.006	284	286	17.950	0.600	20.450	20.000	0.450	39.9	225	5.21	138.4
37.007	286	288	10.700	0.600	20.000	19.600	0.400	26.8	225	5.40	136.7

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.007	1.418	100.3	515.6	2.250	0.400	1.247	0.0
1.008	1.909	303.6	539.0	0.950	1.500	1.362	0.0
1.009	1.411	24.9	618.9	1.800	1.050	1.587	0.0
37.000	1.410	11.1	6.1	0.700	0.700	0.012	0.0
37.001	0.902	7.1	7.1	0.700	0.650	0.014	0.0
38.000	1.361	10.7	5.6	0.600	0.650	0.011	0.0
37.002	1.295	22.9	15.2	0.650	0.650	0.030	0.0
39.000	1.231	9.7	5.6	0.600	0.650	0.011	0.0
37.003	2.467	43.6	21.8	0.650	0.950	0.043	0.0
37.004	2.560	45.2	23.8	0.950	0.675	0.047	0.0
37.005	3.270	130.0	27.9	0.675	0.725	0.055	0.0
37.006	2.077	82.6	46.0	0.725	0.875	0.092	0.0
37.007	2.539	101.0	53.4	0.875	1.075	0.108	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
37.008	288	290	15.350	0.600	19.600	19.400	0.200	76.8	225	5.66	134.4
37.009	290	296	2.750	0.600	19.400	19.350	0.050	55.0	225	5.69	134.2
40.000	292	294	5.800	0.600	19.570	19.500	0.070	82.9	225	4.10	140.2
40.001	294	296	13.600	0.600	19.500	19.350	0.150	90.7	225	4.34	140.2
37.010	296	304	19.500	0.600	19.350	19.075	0.275	70.9	225	6.02	131.3
41.000	298	300	9.950	0.600	20.550	20.350	0.200	49.8	100	4.14	140.2
41.001	300	302	14.450	0.600	20.350	20.100	0.250	57.8	100	4.33	140.2
41.002	302	304	15.300	0.600	20.100	19.200	0.900	17.0	100	4.47	140.2
37.011	304	306	15.800	0.600	19.000	18.850	0.150	105.3	300	6.29	129.2
37.012	306	CC38	9.600	0.600	18.850	18.800	0.050	192.0	300	6.64	140.2
1.010	40	42	17.867	0.600	18.300	18.000	0.300	59.6	150	9.87	132.6
1.011	42	44	16.134	0.600	18.000	16.450	1.550	10.4	150	10.14	130.4
1.012	44	46	76.426	0.600	16.450	14.950	1.500	51.0	150	11.41	120.6

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
37.008	1.494	59.4	63.1	1.075	1.075	0.130	0.0
37.009	1.767	70.3	69.8	1.075	1.075	0.144	0.0
40.000	1.437	57.1	6.6	0.655	0.755	0.013	0.0
40.001	1.373	54.6	16.2	0.755	1.075	0.032	0.0
37.010	1.555	61.8	85.9	1.075	1.300	0.181	0.0
41.000	1.095	8.6	6.1	0.650	1.180	0.012	0.0
41.001	1.015	8.0	9.1	1.180	0.600	0.018	0.0
41.002	1.882	14.8	14.2	0.600	1.300	0.028	0.0
37.011	1.531	108.2	101.8	1.300	1.250	0.218	0.0
37.012	1.131	79.9	114.0	1.250	1.500	0.225	0.0
1.010	1.305	23.1	760.5	1.050	1.650	1.587	0.0
1.011	3.141	55.5	747.9	1.650	1.625	1.587	0.0
1.012	1.412	25.0	691.7	1.625	1.562	1.587	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.013	46	48	70.814	0.600	14.950	12.400	2.550	27.8	150	12.60	112.7
1.014	48	50	99.705	0.600	12.400	11.549	0.851	117.2	150	14.26	103.5

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.013	1.918	33.9	646.4	1.562	2.845	1.587	0.0
1.014	0.927	16.4	593.6	2.845	1.783	1.587	0.0

Simulation Settings

Rainfall Methodology	FEH-13	Analysis Speed	Detailed	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	✓	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	1440	Check Discharge Volume	x

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 %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	40	0	0
30	0	0	0				

Node CC12 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	20.918	Product Number	CTL-SHE-0082-4000-2000-4000
Design Depth (m)	2.000	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	4.0	Min Node Diameter (mm)	1200

Node CC28 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	20.335	Product Number	CTL-SHE-0109-6900-1920-6900
Design Depth (m)	1.920	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	6.9	Min Node Diameter (mm)	1200

Node CC38 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	18.650	Product Number	CTL-SHE-0138-9200-1150-9200
Design Depth (m)	1.150	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	9.2	Min Node Diameter (mm)	1200

Node VC01 Offline Orifice Control

Flap Valve	x	Invert Level (m)	21.100	Discharge Coefficient	0.600
Loop to Node	CS01	Diameter (m)	0.300		

Node CS01 Online Orifice Control

Flap Valve	✓	Invert Level (m)	21.100	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.150		

Node BASIN Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	18.700
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	1290

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	434.7	0.0	1.400	1176.5	0.0

Node CS01 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	21.100
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	1320

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	200.0	0.0	1.200	200.0	0.0	1.201	0.0	0.0

Node CS02 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	21.450
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	108

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	54.0	0.0	0.800	54.0	0.0	0.801	0.0	0.0

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	02	10	22.403	0.051	4.3	0.0575	0.0000	OK
15 minute summer	102	10	24.559	0.059	4.3	0.0126	0.0000	OK
15 minute summer	104	10	24.348	0.048	5.6	0.0103	0.0000	OK
15 minute summer	106	10	24.105	0.055	9.5	0.0118	0.0000	OK
15 minute summer	108	10	23.566	0.066	12.7	0.0143	0.0000	OK
15 minute summer	110	10	23.518	0.018	0.9	0.0039	0.0000	OK
15 minute summer	112	10	23.149	0.049	15.7	0.0553	0.0000	OK
15 minute summer	114	10	22.841	0.041	2.4	0.0090	0.0000	OK
15 minute summer	116	10	22.651	0.051	4.3	0.0111	0.0000	OK
15 minute summer	118	10	22.548	0.058	4.7	0.0125	0.0000	OK
240 minute winter	04	228	21.338	0.249	6.4	1.1264	0.0000	OK
240 minute winter	06	228	21.338	0.288	6.7	1.3027	0.0000	OK
15 minute summer	120	10	23.484	0.034	1.9	0.0074	0.0000	OK
15 minute summer	122	10	23.358	0.058	4.3	0.0126	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	02	1.000	04	4.3	0.561	0.060	0.1140	
15 minute summer	102	2.000	104	4.3	0.931	0.597	0.0489	
15 minute summer	104	2.001	106	5.6	1.052	0.212	0.0609	
15 minute summer	106	2.002	108	9.5	1.425	0.284	0.1047	
15 minute summer	108	2.003	112	12.7	1.812	0.329	0.0378	
15 minute summer	110	3.000	112	0.9	0.982	0.064	0.0034	
15 minute summer	112	2.004	04	15.6	2.174	0.053	0.0835	
15 minute summer	114	4.000	116	2.4	0.800	0.338	0.0326	
15 minute summer	116	4.001	118	4.3	0.740	0.237	0.0616	
15 minute summer	118	4.002	04	4.7	0.782	0.275	0.0334	
240 minute winter	04	1.001	06	5.9	0.255	0.002	4.1419	
240 minute winter	06	1.002	08	5.5	0.193	0.002	9.3215	
15 minute summer	120	5.000	122	1.9	0.540	0.250	0.0337	
15 minute summer	122	5.001	124	4.3	0.946	0.571	0.0295	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	124	10	23.184	0.034	6.2	0.0074	0.0000	OK
240 minute winter	CS01	232	21.338	0.238	13.1	45.2562	0.0000	SURCHARGED
15 minute summer	126	10	22.018	0.018	2.6	0.0039	0.0000	OK
240 minute winter	VC01	232	21.338	0.288	13.3	0.3262	0.0000	OK
240 minute winter	08	228	21.338	0.356	14.5	1.6103	0.0000	OK
15 minute summer	128	10	23.838	0.038	2.8	0.0082	0.0000	OK
15 minute summer	130	10	23.529	0.029	3.9	0.0062	0.0000	OK
15 minute summer	132	10	25.077	0.027	1.9	0.0059	0.0000	OK
15 minute summer	134	10	24.646	0.046	4.3	0.0098	0.0000	OK
15 minute summer	136	10	24.477	0.027	1.1	0.0058	0.0000	OK
15 minute summer	138	10	24.277	0.077	9.7	0.0165	0.0000	OK
15 minute summer	140	10	23.994	0.044	12.1	0.0094	0.0000	OK
15 minute summer	142	10	27.122	0.022	1.1	0.0048	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	124	5.002	08	6.2	2.098	0.105	0.0224	27.5
240 minute winter	CS01	Orifice	VC01	0.7				
15 minute summer	126	7.000	VC01	2.6	1.272	0.032	0.0420	
240 minute winter	VC01	6.001	08	-12.8	0.241	-0.155	0.8586	
240 minute winter	VC01	Orifice	CS01	13.1				
240 minute winter	08	1.003	CC12	-5.4	0.163	-0.002	11.4817	
15 minute summer	128	8.000	130	2.8	1.059	0.283	0.0248	
15 minute summer	130	8.001	CC12	3.9	1.682	0.077	0.0354	
15 minute summer	132	9.000	134	1.9	0.743	0.161	0.0309	
15 minute summer	134	9.001	138	4.3	1.272	0.394	0.0368	
15 minute summer	136	10.000	138	1.1	0.656	0.151	0.0234	
15 minute summer	138	9.002	140	9.7	1.466	0.432	0.1051	
15 minute summer	140	9.003	CC12	12.1	2.918	0.170	0.0442	
15 minute summer	142	11.000	146	1.1	0.864	0.103	0.0209	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	144	10	26.976	0.026	1.3	0.0057	0.0000	OK
15 minute summer	146	10	26.579	0.029	6.3	0.0063	0.0000	OK
15 minute summer	148	10	25.642	0.042	2.8	0.0092	0.0000	OK
15 minute summer	150	10	26.134	0.034	5.4	0.0074	0.0000	OK
15 minute summer	152	10	25.349	0.049	8.2	0.0106	0.0000	OK
15 minute summer	154	10	25.161	0.061	15.8	0.0131	0.0000	OK
15 minute summer	156	10	24.681	0.031	1.5	0.0068	0.0000	OK
15 minute summer	158	10	24.499	0.049	3.2	0.0106	0.0000	OK
15 minute summer	160	10	24.823	0.023	1.7	0.0050	0.0000	OK
15 minute summer	162	10	24.365	0.065	7.3	0.0141	0.0000	OK
15 minute summer	164	10	24.165	0.115	27.5	0.0249	0.0000	OK
15 minute summer	166	10	23.968	0.118	28.7	0.0255	0.0000	OK
15 minute summer	168	10	23.781	0.131	30.3	0.0283	0.0000	OK
15 minute summer	170	10	23.638	0.138	30.7	0.0297	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	144	12.000	146	1.3	0.789	0.148	0.0278	
15 minute summer	146	11.001	154	6.3	1.425	0.083	0.0368	
15 minute summer	148	13.000	152	2.8	0.898	0.358	0.0468	
15 minute summer	150	14.000	152	5.4	1.370	0.114	0.0462	
15 minute summer	152	13.001	154	8.2	1.405	0.200	0.0222	
15 minute summer	154	11.002	164	15.8	2.448	0.311	0.0782	
15 minute summer	156	15.000	158	1.5	0.509	0.212	0.0434	
15 minute summer	158	15.001	162	3.2	0.862	0.436	0.0256	
15 minute summer	160	16.000	162	1.7	1.252	0.112	0.0098	
15 minute summer	162	15.002	164	7.2	1.010	0.364	0.1002	
15 minute summer	164	11.003	166	27.4	1.320	0.464	0.3224	
15 minute summer	166	11.004	168	28.6	1.271	0.479	0.3415	
15 minute summer	168	11.005	170	30.1	1.218	0.547	0.3310	
15 minute summer	170	11.006	174	30.3	1.783	0.586	0.1745	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	172	10	24.266	0.016	1.5	0.0035	0.0000	OK
15 minute summer	174	10	23.463	0.063	31.8	0.0137	0.0000	OK
240 minute winter	10	228	21.338	0.338	7.7	1.5288	0.0000	OK
15 minute summer	176	10	24.440	0.040	3.9	0.0087	0.0000	OK
15 minute summer	178	10	23.830	0.030	5.2	0.0066	0.0000	OK
240 minute winter	CC12	228	21.338	0.420	10.6	2.9685	0.0000	SURCHARGED
15 minute summer	180	10	24.093	0.043	2.8	0.0093	0.0000	OK
15 minute summer	182	10	23.901	0.051	3.7	0.0109	0.0000	OK
15 minute summer	184	10	24.136	0.036	3.0	0.0079	0.0000	OK
15 minute summer	186	10	23.617	0.067	7.1	0.0144	0.0000	OK
15 minute summer	188	10	23.532	0.032	7.2	0.0069	0.0000	OK
15 minute summer	190	10	23.973	0.023	0.9	0.0051	0.0000	OK
15 minute summer	192	10	23.866	0.016	1.3	0.0034	0.0000	OK
15 minute summer	194	10	21.336	0.036	8.5	0.0078	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	172	17.000	174	1.5	1.857	0.053	0.0027	
15 minute summer	174	11.007	10	31.7	3.742	0.141	0.0517	
240 minute winter	10	11.008	CC12	6.6	0.115	0.002	13.9759	
15 minute summer	176	18.000	178	3.9	1.355	0.320	0.0394	
15 minute summer	178	18.001	CC12	5.2	2.074	0.086	0.0333	
240 minute winter	CC12	Hydro-Brake®	14	3.1				
15 minute summer	180	19.000	182	2.8	0.792	0.378	0.0477	
15 minute summer	182	19.001	186	3.7	0.939	0.483	0.0623	
15 minute summer	184	20.000	186	3.0	1.184	0.270	0.0379	
15 minute summer	186	19.002	188	7.0	1.396	0.311	0.0160	
15 minute summer	188	19.003	194	7.2	2.405	0.099	0.0401	
15 minute summer	190	21.000	192	0.9	0.835	0.102	0.0051	
15 minute summer	192	21.001	194	1.3	1.671	0.052	0.0115	
15 minute summer	194	19.004	14	8.5	2.785	0.104	0.0096	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	14	10	20.557	0.057	11.6	0.0812	0.0000	OK
15 minute summer	196	10	22.399	0.049	4.3	0.0105	0.0000	OK
15 minute summer	198	10	22.111	0.061	6.4	0.0131	0.0000	OK
15 minute summer	200	10	22.231	0.031	2.6	0.0068	0.0000	OK
15 minute summer	202	10	21.921	0.071	9.3	0.0153	0.0000	OK
15 minute summer	204	10	21.687	0.087	13.9	0.0187	0.0000	OK
15 minute summer	206	11	21.254	0.054	13.7	0.0116	0.0000	OK
15 minute summer	208	10	22.282	0.032	1.7	0.0069	0.0000	OK
15 minute summer	210	10	21.979	0.029	4.7	0.0063	0.0000	OK
15 minute summer	212	10	20.833	0.033	7.3	0.0072	0.0000	OK
15 minute summer	16	11	20.104	0.104	36.4	0.1172	0.0000	OK
15 minute summer	214	10	25.486	0.086	12.0	0.0185	0.0000	OK
15 minute summer	216	10	24.961	0.061	14.9	0.0132	0.0000	OK
15 minute summer	218	10	24.519	0.069	19.8	0.0148	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	14	1.005	16	11.4	0.819	0.079	0.4576	
15 minute summer	196	22.000	198	4.3	0.739	0.230	0.1579	
15 minute summer	198	22.001	202	6.3	0.855	0.335	0.1307	
15 minute summer	200	23.000	202	2.6	1.280	0.194	0.0126	
15 minute summer	202	22.002	204	9.2	1.179	0.403	0.0830	
15 minute summer	204	22.003	206	13.7	1.311	0.272	0.4487	
15 minute summer	206	22.004	16	13.6	1.913	0.120	0.1687	
15 minute summer	208	24.000	210	1.7	0.802	0.211	0.0300	
15 minute summer	210	24.001	212	4.7	2.012	0.077	0.0219	
15 minute summer	212	24.002	16	7.3	2.668	0.090	0.0087	
15 minute summer	16	1.006	36	35.7	0.896	0.261	1.3279	
15 minute summer	214	25.000	216	11.9	1.168	0.596	0.3424	
15 minute summer	216	25.001	218	14.9	1.808	0.141	0.0751	
15 minute summer	218	25.002	220	19.8	1.977	0.187	0.1712	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	220	10	23.817	0.067	22.4	0.0144	0.0000	OK
15 minute summer	222	10	22.664	0.064	24.7	0.0138	0.0000	OK
15 minute summer	224	10	21.898	0.098	29.2	0.0211	0.0000	OK
120 minute summer	18	86	20.738	0.238	15.2	0.8261	0.0000	OK
15 minute summer	226	10	23.729	0.029	2.8	0.0062	0.0000	OK
15 minute summer	228	10	23.245	0.045	5.4	0.0098	0.0000	OK
15 minute summer	230	10	23.046	0.046	3.9	0.0099	0.0000	OK
15 minute summer	232	10	22.762	0.062	11.2	0.0135	0.0000	OK
15 minute summer	234	10	22.331	0.031	2.1	0.0068	0.0000	OK
15 minute summer	236	10	22.057	0.057	13.3	0.0123	0.0000	OK
120 minute summer	20	86	20.738	0.261	23.6	0.9057	0.0000	OK
15 minute summer	238	10	23.811	0.011	1.1	0.0024	0.0000	OK
15 minute summer	CS02	11	21.450	0.000	0.2	0.0162	0.0000	OK
15 minute summer	VC02	10	21.452	0.052	5.2	0.0585	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	220	25.003	222	22.3	2.348	0.177	0.1885	
15 minute summer	222	25.004	224	24.7	1.925	0.177	0.1452	
15 minute summer	224	25.005	18	29.0	1.859	0.337	0.1860	
120 minute summer	18	25.006	20	13.5	0.366	0.007	1.9025	
15 minute summer	226	26.000	228	2.8	1.558	0.163	0.0102	
15 minute summer	228	26.001	232	5.4	0.948	0.199	0.1241	
15 minute summer	230	27.000	232	3.9	1.144	0.398	0.0327	
15 minute summer	232	26.002	236	11.2	1.716	0.335	0.1302	
15 minute summer	234	28.000	236	2.1	1.026	0.198	0.0169	
15 minute summer	236	26.003	20	13.3	2.318	0.253	0.0315	
120 minute summer	20	25.007	24	18.1	0.333	0.010	8.5825	
15 minute summer	238	30.000	VC02	1.1	1.990	0.010	0.0033	
15 minute summer	CS02	29.000	VC02	-0.2	-0.061	-0.002	0.0202	
15 minute summer	VC02	29.001	22	5.0	0.640	0.061	0.0900	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	22	84	20.738	0.302	4.8	1.0475	0.0000	OK
120 minute summer	24	84	20.738	0.339	22.0	1.5357	0.0000	OK
120 minute summer	26	84	20.738	0.376	13.1	1.3038	0.0000	OK
120 minute summer	CC28	86	20.738	0.403	8.9	2.3096	0.0000	SURCHARGED
15 minute summer	240	10	23.445	0.045	3.0	0.0098	0.0000	OK
15 minute summer	242	10	23.322	0.072	5.8	0.0155	0.0000	OK
15 minute summer	244	10	23.125	0.075	6.2	0.0161	0.0000	OK
15 minute summer	246	10	22.957	0.057	6.5	0.0123	0.0000	OK
15 minute summer	248	10	22.641	0.041	8.5	0.0089	0.0000	OK
15 minute summer	250	10	22.481	0.031	2.8	0.0067	0.0000	OK
15 minute summer	252	10	21.344	0.044	13.4	0.0095	0.0000	OK
15 minute summer	30	10	20.134	0.084	21.2	0.0945	0.0000	OK
15 minute summer	32	10	19.979	0.079	21.1	0.0899	0.0000	OK
15 minute summer	254	10	21.550	0.050	6.2	0.0109	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)
120 minute summer	22	29.002	24	2.0	0.141	0.001	4.4151	
120 minute summer	24	25.008	26	13.1	0.321	0.007	5.1555	
120 minute summer	26	25.009	CC28	8.9	0.417	0.005	4.2145	
120 minute summer	CC28	Hydro-Brake®	30	6.3				
15 minute summer	240	31.000	242	3.0	0.638	0.420	0.0510	
15 minute summer	242	31.001	244	5.8	0.942	0.814	0.0891	
15 minute summer	244	31.002	246	6.1	1.118	0.815	0.0533	
15 minute summer	246	31.003	248	6.4	1.472	0.538	0.0284	
15 minute summer	248	31.004	252	8.5	2.077	0.160	0.0612	
15 minute summer	250	32.000	252	2.8	1.380	0.199	0.0420	
15 minute summer	252	31.005	30	13.3	3.312	0.157	0.0197	
15 minute summer	30	25.011	32	21.1	1.367	0.143	0.1313	
15 minute summer	32	25.012	34	20.9	1.001	0.151	0.3610	
15 minute summer	254	33.000	258	6.2	0.961	0.242	0.1100	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	256	10	21.437	0.037	1.9	0.0079	0.0000	OK
15 minute summer	258	10	21.218	0.068	12.2	0.0148	0.0000	OK
15 minute summer	260	10	20.852	0.052	3.9	0.0113	0.0000	OK
15 minute summer	262	10	20.558	0.058	18.7	0.0126	0.0000	OK
15 minute summer	34	10	19.782	0.132	41.1	0.1893	0.0000	OK
15 minute summer	264	10	21.671	0.021	1.9	0.0046	0.0000	OK
15 minute summer	266	10	20.326	0.026	5.5	0.0057	0.0000	OK
15 minute summer	36	11	19.732	0.232	81.9	0.3320	0.0000	OK
360 minute summer	BASIN	360	19.038	0.338	32.8	177.4095	0.0000	OK
15 minute summer	268	10	22.733	0.033	2.6	0.0071	0.0000	OK
15 minute summer	270	10	22.147	0.047	3.0	0.0101	0.0000	OK
15 minute summer	272	10	22.433	0.033	2.4	0.0071	0.0000	OK
15 minute summer	274	10	21.958	0.058	6.5	0.0124	0.0000	OK
15 minute summer	276	10	22.235	0.035	2.4	0.0075	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	256	34.000	258	1.9	0.740	0.274	0.0393	
15 minute summer	258	33.001	262	12.2	1.723	0.386	0.1472	
15 minute summer	260	35.000	262	3.9	0.955	0.513	0.0650	
15 minute summer	262	33.002	34	18.7	3.217	0.249	0.0232	
15 minute summer	34	25.013	36	40.9	0.944	0.356	0.6082	
15 minute summer	264	36.000	266	1.9	1.577	0.096	0.0148	
15 minute summer	266	36.001	36	5.5	2.348	0.067	0.0181	
15 minute summer	36	1.007	BASIN	81.8	1.496	0.816	0.6692	
360 minute summer	BASIN	1.008	CC38	14.4	0.486	0.047	0.7742	
15 minute summer	268	37.000	270	2.6	0.911	0.235	0.0530	
15 minute summer	270	37.001	274	3.0	0.842	0.417	0.0384	
15 minute summer	272	38.000	274	2.4	1.082	0.224	0.0322	
15 minute summer	274	37.002	278	6.4	1.131	0.281	0.0688	
15 minute summer	276	39.000	278	2.4	1.009	0.248	0.0421	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	278	10	21.750	0.050	9.2	0.0109	0.0000	OK
15 minute summer	280	10	21.454	0.054	10.1	0.0116	0.0000	OK
15 minute summer	282	10	21.096	0.046	11.8	0.0098	0.0000	OK
15 minute summer	284	10	20.528	0.078	19.6	0.0169	0.0000	OK
15 minute summer	286	10	20.073	0.073	23.0	0.0158	0.0000	OK
15 minute summer	288	10	19.716	0.116	27.6	0.0250	0.0000	OK
15 minute summer	290	10	19.540	0.140	30.4	0.0302	0.0000	OK
15 minute summer	292	10	19.604	0.034	2.8	0.0073	0.0000	OK
15 minute summer	294	10	19.554	0.054	6.9	0.0116	0.0000	OK
15 minute summer	296	10	19.486	0.136	38.1	0.0294	0.0000	OK
15 minute summer	298	10	20.588	0.038	2.6	0.0082	0.0000	OK
15 minute summer	300	10	20.402	0.052	3.9	0.0112	0.0000	OK
15 minute summer	302	10	20.146	0.046	6.0	0.0099	0.0000	OK
15 minute summer	304	10	19.152	0.152	45.3	0.0328	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	278	37.003	280	9.2	1.696	0.211	0.0274	
15 minute summer	280	37.004	282	10.1	1.908	0.222	0.0227	
15 minute summer	282	37.005	284	11.7	1.327	0.090	0.0872	
15 minute summer	284	37.006	286	19.6	1.671	0.237	0.2103	
15 minute summer	286	37.007	288	22.9	1.450	0.227	0.1696	
15 minute summer	288	37.008	290	27.4	1.180	0.461	0.3563	
15 minute summer	290	37.009	296	30.1	1.181	0.429	0.0702	
15 minute summer	292	40.000	294	2.8	0.516	0.049	0.0319	
15 minute summer	294	40.001	296	6.9	0.476	0.126	0.2202	
15 minute summer	296	37.010	304	37.4	1.573	0.606	0.4665	
15 minute summer	298	41.000	300	2.6	0.772	0.302	0.0337	
15 minute summer	300	41.001	302	3.9	1.029	0.488	0.0547	
15 minute summer	302	41.002	304	6.0	1.745	0.404	0.0523	
15 minute summer	304	37.011	306	45.0	1.129	0.415	0.6306	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	306	360	19.038	0.188	10.6	0.0407	0.0000	OK
360 minute summer	CC38	360	19.038	0.388	14.4	2.2232	0.0000	SURCHARGED
180 minute summer	40	252	18.373	0.073	9.2	0.0828	0.0000	OK
180 minute summer	42	252	18.041	0.041	9.2	0.0468	0.0000	OK
240 minute summer	44	180	16.516	0.066	9.2	0.0743	0.0000	OK
720 minute summer	46	660	15.003	0.053	9.2	0.0604	0.0000	OK
960 minute winter	48	735	12.481	0.081	9.2	0.0915	0.0000	OK
960 minute winter	50	735	11.629	0.080	9.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	306	37.012	CC38	10.5	0.736	0.132	0.5114	
360 minute summer	CC38	Hydro-Brake®	40	9.2				
180 minute summer	40	1.010	42	9.2	1.489	0.399	0.1115	
180 minute summer	42	1.011	44	9.2	1.632	0.166	0.0916	
240 minute summer	44	1.012	46	9.2	1.413	0.369	0.4981	
720 minute summer	46	1.013	48	9.2	1.206	0.271	0.5417	
960 minute winter	48	1.014	50	9.2	0.956	0.561	0.9592	511.5

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	02	10	22.434	0.082	10.9	0.0929	0.0000	OK
15 minute summer	102	10	24.791	0.291	10.9	0.0629	0.0000	SURCHARGED
15 minute summer	104	10	24.379	0.079	13.4	0.0171	0.0000	OK
15 minute summer	106	10	24.143	0.093	23.1	0.0202	0.0000	OK
15 minute summer	108	10	23.627	0.127	31.0	0.0275	0.0000	OK
15 minute summer	110	10	23.528	0.028	2.2	0.0062	0.0000	OK
15 minute summer	112	10	23.178	0.078	38.4	0.0886	0.0000	OK
15 minute summer	114	10	22.875	0.075	6.0	0.0163	0.0000	OK
15 minute summer	116	10	22.692	0.092	10.9	0.0198	0.0000	OK
15 minute summer	118	10	22.594	0.104	12.0	0.0224	0.0000	OK
480 minute winter	04	472	21.718	0.629	7.6	2.8455	0.0000	OK
480 minute winter	06	472	21.718	0.668	7.6	3.0219	0.0000	OK
15 minute summer	120	11	23.567	0.117	4.9	0.0254	0.0000	SURCHARGED
15 minute summer	122	11	23.505	0.205	10.2	0.0443	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	02	1.000	04	10.9	0.723	0.152	0.2253	
15 minute summer	102	2.000	104	10.1	1.287	1.399	0.0820	
15 minute summer	104	2.001	106	13.3	1.287	0.504	0.1201	
15 minute summer	106	2.002	108	22.9	1.653	0.687	0.2157	
15 minute summer	108	2.003	112	30.8	2.136	0.802	0.0774	
15 minute summer	110	3.000	112	2.2	1.253	0.155	0.0065	
15 minute summer	112	2.004	04	38.3	2.766	0.130	0.1608	
15 minute summer	114	4.000	116	6.0	0.980	0.844	0.0666	
15 minute summer	116	4.001	118	10.9	0.896	0.602	0.1287	
15 minute summer	118	4.002	04	11.9	0.977	0.705	0.0683	
480 minute winter	04	1.001	06	6.6	0.237	0.002	14.1410	
480 minute winter	06	1.002	08	5.2	0.188	0.002	27.1659	
15 minute summer	120	5.000	122	4.4	0.624	0.578	0.0743	
15 minute summer	122	5.001	124	9.7	1.236	1.288	0.0502	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	124	10	23.205	0.055	14.5	0.0118	0.0000	OK
480 minute winter	CS01	464	21.718	0.618	12.1	117.4099	0.0000	SURCHARGED
15 minute summer	126	10	22.028	0.028	6.5	0.0061	0.0000	OK
480 minute winter	VC01	472	21.718	0.668	12.2	0.7559	0.0000	SURCHARGED
480 minute winter	08	472	21.718	0.736	14.6	3.3295	0.0000	OK
15 minute summer	128	10	23.867	0.067	7.1	0.0146	0.0000	OK
15 minute summer	130	10	23.546	0.046	9.8	0.0100	0.0000	OK
15 minute summer	132	10	25.095	0.045	4.9	0.0097	0.0000	OK
15 minute summer	134	11	24.748	0.148	10.9	0.0320	0.0000	SURCHARGED
15 minute summer	136	10	24.492	0.042	2.7	0.0091	0.0000	OK
15 minute summer	138	10	24.404	0.203	23.7	0.0440	0.0000	SURCHARGED
15 minute summer	140	10	24.021	0.071	28.3	0.0153	0.0000	OK
15 minute summer	142	10	27.135	0.035	2.7	0.0076	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	124	5.002	08	14.5	2.625	0.247	0.0420	
480 minute winter	CS01	Orifice	VC01	1.2				
15 minute summer	126	7.000	VC01	6.5	1.402	0.079	0.0448	
480 minute winter	VC01	6.001	08	-11.6	0.241	-0.140	0.8645	
480 minute winter	VC01	Orifice	CS01	12.1				83.9
480 minute winter	08	1.003	CC12	-5.4	0.142	-0.002	28.8523	
15 minute summer	128	8.000	130	7.1	1.317	0.717	0.0507	
15 minute summer	130	8.001	CC12	9.8	2.178	0.193	0.0688	
15 minute summer	132	9.000	134	4.9	0.899	0.414	0.0669	
15 minute summer	134	9.001	138	10.2	1.433	0.941	0.0853	
15 minute summer	136	10.000	138	2.7	0.647	0.373	0.0768	
15 minute summer	138	9.002	140	22.3	1.741	0.995	0.2037	
15 minute summer	140	9.003	CC12	28.2	3.621	0.397	0.0834	
15 minute summer	142	11.000	146	2.7	1.111	0.255	0.0400	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	144	10	26.994	0.044	3.3	0.0095	0.0000	OK
15 minute summer	146	10	26.596	0.046	15.8	0.0100	0.0000	OK
15 minute summer	148	10	25.679	0.079	7.1	0.0172	0.0000	OK
15 minute summer	150	10	26.155	0.055	13.6	0.0119	0.0000	OK
15 minute summer	152	10	25.391	0.091	20.7	0.0196	0.0000	OK
15 minute summer	154	10	25.227	0.127	39.7	0.0275	0.0000	OK
15 minute summer	156	12	24.817	0.167	3.8	0.0360	0.0000	SURCHARGED
15 minute summer	158	11	24.787	0.337	7.9	0.0729	0.0000	SURCHARGED
15 minute summer	160	10	24.837	0.037	4.3	0.0079	0.0000	OK
15 minute summer	162	11	24.739	0.439	17.3	0.0947	0.0000	SURCHARGED
15 minute summer	164	11	24.646	0.596	61.1	0.1288	0.0000	SURCHARGED
15 minute summer	166	11	24.388	0.538	61.6	0.1163	0.0000	SURCHARGED
15 minute summer	168	11	24.109	0.459	64.8	0.0990	0.0000	SURCHARGED
15 minute summer	170	11	23.823	0.323	66.1	0.0697	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	144	12.000	146	3.3	1.017	0.378	0.0551	
15 minute summer	146	11.001	154	15.8	1.771	0.208	0.0833	
15 minute summer	148	13.000	152	7.1	1.094	0.906	0.0973	
15 minute summer	150	14.000	152	13.6	1.640	0.288	0.0978	
15 minute summer	152	13.001	154	20.6	1.679	0.503	0.0514	
15 minute summer	154	11.002	164	38.8	2.545	0.765	0.2038	
15 minute summer	156	15.000	158	4.1	0.599	0.574	0.1150	
15 minute summer	158	15.001	162	8.7	1.109	1.195	0.0544	
15 minute summer	160	16.000	162	4.3	1.311	0.283	0.0377	
15 minute summer	162	15.002	164	17.5	1.260	0.880	0.2465	
15 minute summer	164	11.003	166	58.3	1.467	0.987	0.6165	
15 minute summer	166	11.004	168	61.2	1.540	1.024	0.6025	
15 minute summer	168	11.005	170	64.8	1.630	1.178	0.5329	
15 minute summer	170	11.006	174	66.0	1.997	1.276	0.2881	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	172	10	24.277	0.027	3.8	0.0057	0.0000	OK
15 minute summer	174	11	23.501	0.101	69.2	0.0218	0.0000	OK
480 minute winter	10	472	21.718	0.718	9.2	3.2480	0.0000	OK
15 minute summer	176	10	24.472	0.072	9.8	0.0156	0.0000	OK
15 minute summer	178	10	23.849	0.049	13.1	0.0106	0.0000	OK
480 minute winter	CC12	472	21.718	0.800	11.9	5.6549	0.0000	SURCHARGED
15 minute summer	180	11	24.164	0.114	7.1	0.0247	0.0000	SURCHARGED
15 minute summer	182	11	23.998	0.148	9.0	0.0320	0.0000	SURCHARGED
15 minute summer	184	10	24.163	0.063	7.6	0.0137	0.0000	OK
15 minute summer	186	10	23.663	0.113	16.8	0.0245	0.0000	OK
15 minute summer	188	10	23.550	0.050	17.2	0.0107	0.0000	OK
15 minute summer	190	10	23.988	0.038	2.2	0.0081	0.0000	OK
15 minute summer	192	10	23.875	0.025	3.3	0.0054	0.0000	OK
15 minute summer	194	10	21.361	0.061	20.5	0.0131	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	172	17.000	174	3.8	2.393	0.135	0.0054	
15 minute summer	174	11.007	10	69.2	4.469	0.307	0.0945	
480 minute winter	10	11.008	CC12	7.3	0.117	0.002	35.7211	
15 minute summer	176	18.000	178	9.8	1.669	0.804	0.0804	
15 minute summer	178	18.001	CC12	13.1	2.675	0.215	0.0651	
480 minute winter	CC12	Hydro-Brake®	14	3.1				
15 minute summer	180	19.000	182	6.8	0.932	0.914	0.1041	
15 minute summer	182	19.001	186	8.1	1.039	1.072	0.1218	
15 minute summer	184	20.000	186	7.6	1.466	0.684	0.0781	
15 minute summer	186	19.002	188	16.7	1.712	0.740	0.0300	
15 minute summer	188	19.003	194	17.2	2.929	0.237	0.0786	
15 minute summer	190	21.000	192	2.2	1.053	0.249	0.0099	
15 minute summer	192	21.001	194	3.3	2.188	0.131	0.0223	
15 minute summer	194	19.004	14	20.5	3.421	0.251	0.0189	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	14	10	20.581	0.081	23.6	0.1162	0.0000	OK
15 minute summer	196	10	22.432	0.082	10.9	0.0177	0.0000	OK
15 minute summer	198	10	22.162	0.112	16.3	0.0242	0.0000	OK
15 minute summer	200	9	22.249	0.049	6.5	0.0107	0.0000	OK
15 minute summer	202	11	22.021	0.171	23.9	0.0370	0.0000	SURCHARGED
15 minute summer	204	10	21.748	0.148	34.3	0.0320	0.0000	OK
15 minute summer	206	10	21.284	0.084	34.2	0.0181	0.0000	OK
15 minute summer	208	10	22.304	0.054	4.3	0.0117	0.0000	OK
15 minute summer	210	10	21.997	0.047	11.9	0.0102	0.0000	OK
15 minute summer	212	9	20.856	0.056	18.4	0.0121	0.0000	OK
15 minute summer	16	11	20.314	0.314	87.5	0.3554	0.0000	SURCHARGED
15 minute summer	214	10	26.031	0.631	30.4	0.1363	0.0000	SURCHARGED
15 minute summer	216	10	25.000	0.100	35.5	0.0216	0.0000	OK
15 minute summer	218	10	24.564	0.114	47.8	0.0245	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	14	1.005	16	23.5	0.833	0.163	1.2700	
15 minute summer	196	22.000	198	10.9	0.905	0.583	0.3246	
15 minute summer	198	22.001	202	16.3	1.002	0.863	0.2789	
15 minute summer	200	23.000	202	6.5	1.471	0.485	0.0362	
15 minute summer	202	22.002	204	22.5	1.390	0.984	0.1816	
15 minute summer	204	22.003	206	34.2	1.657	0.677	0.8733	
15 minute summer	206	22.004	16	34.0	2.234	0.299	0.6296	
15 minute summer	208	24.000	210	4.3	1.019	0.534	0.0598	
15 minute summer	210	24.001	212	11.9	2.597	0.194	0.0431	
15 minute summer	212	24.002	16	18.7	3.302	0.231	0.0352	
15 minute summer	16	1.006	36	78.5	1.135	0.575	2.3366	
15 minute summer	214	25.000	216	27.9	1.587	1.395	0.5836	
15 minute summer	216	25.001	218	35.3	2.235	0.333	0.1439	
15 minute summer	218	25.002	220	47.6	2.431	0.451	0.3351	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	220	10	23.859	0.109	54.1	0.0236	0.0000	OK
15 minute summer	222	10	22.704	0.104	59.8	0.0225	0.0000	OK
15 minute summer	224	10	21.982	0.182	71.0	0.0393	0.0000	OK
120 minute winter	18	118	21.242	0.742	23.3	2.5719	0.0000	OK
15 minute summer	226	10	23.749	0.049	7.1	0.0105	0.0000	OK
15 minute summer	228	10	23.275	0.075	13.6	0.0162	0.0000	OK
15 minute summer	230	10	23.097	0.097	9.8	0.0210	0.0000	OK
15 minute summer	232	10	22.814	0.114	28.1	0.0245	0.0000	OK
15 minute summer	234	10	22.353	0.053	5.4	0.0115	0.0000	OK
15 minute summer	236	10	22.105	0.105	33.5	0.0227	0.0000	OK
120 minute winter	20	118	21.242	0.765	35.7	2.6516	0.0000	OK
15 minute summer	238	10	23.817	0.017	2.7	0.0036	0.0000	OK
30 minute summer	CS02	21	21.454	0.004	0.7	0.2041	0.0000	OK
15 minute summer	VC02	10	21.482	0.082	13.0	0.0926	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	220	25.003	222	53.8	2.905	0.427	0.3671	
15 minute summer	222	25.004	224	59.6	2.241	0.427	0.2945	
15 minute summer	224	25.005	18	70.2	2.220	0.815	0.3755	
120 minute winter	18	25.006	20	20.3	0.330	0.011	8.3583	
15 minute summer	226	26.000	228	7.1	1.971	0.414	0.0205	
15 minute summer	228	26.001	232	13.6	1.173	0.503	0.2510	
15 minute summer	230	27.000	232	9.6	1.352	0.978	0.0738	
15 minute summer	232	26.002	236	28.1	2.046	0.841	0.2740	
15 minute summer	234	28.000	236	5.4	1.289	0.511	0.0357	
15 minute summer	236	26.003	20	33.5	2.814	0.638	0.0654	
120 minute winter	20	25.007	24	25.9	0.382	0.014	31.1573	
15 minute summer	238	30.000	VC02	2.7	2.606	0.025	0.0062	
30 minute summer	CS02	29.000	VC02	-0.7	-0.141	-0.007	0.0357	
15 minute summer	VC02	29.001	22	12.2	0.820	0.148	0.1712	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	22	118	21.243	0.807	7.2	2.7938	0.0000	OK
120 minute winter	24	118	21.243	0.844	31.7	3.8161	0.0000	OK
120 minute winter	26	118	21.242	0.880	17.1	3.0499	0.0000	OK
120 minute winter	CC28	118	21.243	0.908	10.3	5.1964	0.0000	SURCHARGED
15 minute summer	240	11	23.923	0.523	7.6	0.1130	0.0000	SURCHARGED
15 minute summer	242	11	23.822	0.572	12.0	0.1235	0.0000	SURCHARGED
15 minute summer	244	12	23.350	0.300	11.1	0.0649	0.0000	SURCHARGED
15 minute summer	246	12	22.993	0.093	11.3	0.0201	0.0000	OK
15 minute summer	248	11	22.658	0.058	15.8	0.0125	0.0000	OK
15 minute summer	250	10	22.502	0.052	7.1	0.0112	0.0000	OK
15 minute summer	252	10	21.368	0.068	28.2	0.0147	0.0000	OK
15 minute summer	30	11	20.288	0.238	39.8	0.2695	0.0000	OK
15 minute summer	32	11	20.277	0.377	38.3	0.4268	0.0000	SURCHARGED
15 minute summer	254	10	21.586	0.086	15.8	0.0186	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)
120 minute winter	22	29.002	24	3.0	0.176	0.002	15.0722	
120 minute winter	24	25.008	26	17.1	0.412	0.009	15.8519	
120 minute winter	26	25.009	CC28	10.3	0.484	0.005	11.9647	
120 minute winter	CC28	Hydro-Brake®	30	6.3				
15 minute summer	240	31.000	242	5.3	0.679	0.741	0.0845	
15 minute summer	242	31.001	244	10.2	1.300	1.432	0.1135	
15 minute summer	244	31.002	246	10.6	1.355	1.415	0.0756	
15 minute summer	246	31.003	248	11.2	1.595	0.939	0.0458	
15 minute summer	248	31.004	252	15.7	2.467	0.297	0.1029	
15 minute summer	250	32.000	252	7.1	1.762	0.505	0.0834	
15 minute summer	252	31.005	30	28.1	3.953	0.331	0.0422	
15 minute summer	30	25.011	32	38.3	1.510	0.259	0.5543	
15 minute summer	32	25.012	34	38.8	1.101	0.280	1.1338	
15 minute summer	254	33.000	258	15.8	1.151	0.617	0.2312	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	256	10	21.462	0.062	4.9	0.0135	0.0000	OK
15 minute summer	258	10	21.287	0.137	31.0	0.0295	0.0000	OK
15 minute summer	260	11	21.020	0.220	9.8	0.0474	0.0000	SURCHARGED
15 minute summer	262	10	20.627	0.127	46.5	0.0275	0.0000	OK
15 minute summer	34	11	20.248	0.598	84.8	0.8561	0.0000	SURCHARGED
15 minute summer	264	10	21.685	0.035	4.9	0.0075	0.0000	OK
15 minute summer	266	10	20.350	0.050	14.1	0.0108	0.0000	OK
15 minute summer	36	11	20.128	0.628	170.5	0.8991	0.0000	SURCHARGED
720 minute winter	BASIN	720	19.372	0.672	29.3	411.7539	0.0000	SURCHARGED
15 minute summer	268	10	22.755	0.055	6.5	0.0119	0.0000	OK
15 minute summer	270	10	22.200	0.100	7.6	0.0216	0.0000	OK
15 minute summer	272	10	22.456	0.056	6.0	0.0121	0.0000	OK
15 minute summer	274	10	22.000	0.100	15.8	0.0215	0.0000	OK
15 minute summer	276	10	22.259	0.059	6.0	0.0128	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	256	34.000	258	4.9	0.854	0.712	0.0949	
15 minute summer	258	33.001	262	31.2	2.022	0.988	0.3406	
15 minute summer	260	35.000	262	8.8	1.130	1.166	0.1225	
15 minute summer	262	33.002	34	45.8	3.607	0.611	0.0670	
15 minute summer	34	25.013	36	84.8	1.205	0.737	0.9857	
15 minute summer	264	36.000	266	4.9	2.052	0.247	0.0294	
15 minute summer	266	36.001	36	14.0	2.300	0.171	0.0352	
15 minute summer	36	1.007	BASIN	170.0	2.414	1.695	0.8548	
720 minute winter	BASIN	1.008	CC38	15.5	0.493	0.051	0.8977	
15 minute summer	268	37.000	270	6.5	1.109	0.587	0.1109	
15 minute summer	270	37.001	274	7.1	0.982	1.002	0.0818	
15 minute summer	272	38.000	274	6.0	1.367	0.561	0.0638	
15 minute summer	274	37.002	278	15.8	1.361	0.691	0.1406	
15 minute summer	276	39.000	278	6.0	1.271	0.620	0.0837	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	278	10	21.789	0.089	22.9	0.0191	0.0000	OK
15 minute summer	280	10	21.497	0.097	25.1	0.0210	0.0000	OK
15 minute summer	282	10	21.122	0.072	29.4	0.0156	0.0000	OK
15 minute summer	284	11	20.602	0.152	49.5	0.0328	0.0000	OK
15 minute summer	286	11	20.463	0.463	56.4	0.1000	0.0000	SURCHARGED
15 minute summer	288	11	20.319	0.719	62.1	0.1553	0.0000	SURCHARGED
15 minute summer	290	11	20.052	0.652	66.2	0.1409	0.0000	SURCHARGED
15 minute summer	292	11	19.951	0.381	7.1	0.0823	0.0000	SURCHARGED
15 minute summer	294	11	19.954	0.454	14.7	0.0981	0.0000	SURCHARGED
15 minute summer	296	11	19.938	0.588	79.9	0.1271	0.0000	SURCHARGED
15 minute summer	298	10	20.625	0.075	6.5	0.0163	0.0000	OK
15 minute summer	300	11	20.533	0.183	9.7	0.0395	0.0000	SURCHARGED
15 minute summer	302	10	20.182	0.082	14.1	0.0176	0.0000	OK
720 minute winter	304	720	19.372	0.372	7.9	0.0803	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	278	37.003	280	22.9	2.001	0.526	0.0578	
15 minute summer	280	37.004	282	25.1	2.321	0.555	0.0464	
15 minute summer	282	37.005	284	29.4	1.648	0.226	0.1887	
15 minute summer	284	37.006	286	47.7	1.843	0.578	0.6131	
15 minute summer	286	37.007	288	50.1	1.527	0.496	0.4256	
15 minute summer	288	37.008	290	59.3	1.492	0.999	0.6105	
15 minute summer	290	37.009	296	65.2	1.640	0.928	0.1094	
15 minute summer	292	40.000	294	6.2	0.609	0.109	0.2307	
15 minute summer	294	40.001	296	13.5	0.559	0.247	0.5409	
15 minute summer	296	37.010	304	79.2	1.991	1.281	0.7755	
15 minute summer	298	41.000	300	6.4	0.899	0.746	0.0704	
15 minute summer	300	41.001	302	8.7	1.143	1.093	0.1060	
15 minute summer	302	41.002	304	14.2	2.044	0.962	0.1122	
720 minute winter	304	37.011	306	7.9	0.697	0.073	1.1126	



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SW SUPER NETWORK

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	306	720	19.372	0.522	8.1	0.1127	0.0000	SURCHARGED
720 minute winter	CC38	720	19.372	0.722	18.7	4.1336	0.0000	SURCHARGED
30 minute winter	40	379	18.373	0.073	9.2	0.0828	0.0000	OK
60 minute summer	42	605	18.041	0.041	9.2	0.0468	0.0000	OK
30 minute summer	44	21	16.516	0.066	9.2	0.0743	0.0000	OK
15 minute winter	46	8	15.004	0.054	9.2	0.0609	0.0000	OK
60 minute summer	48	607	12.481	0.081	9.2	0.0915	0.0000	OK
60 minute summer	50	607	11.629	0.080	9.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	306	37.012	CC38	8.9	0.558	0.111	0.6760	
720 minute winter	CC38	Hydro-Brake®	40	9.2				
30 minute winter	40	1.010	42	9.2	1.489	0.399	0.1115	
60 minute summer	42	1.011	44	9.2	1.702	0.166	0.0916	
30 minute summer	44	1.012	46	9.2	1.414	0.369	0.4981	
15 minute winter	46	1.013	48	9.2	1.801	0.271	0.5417	
60 minute summer	48	1.014	50	9.2	0.956	0.561	0.9591	564.9

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	02	10	22.464	0.112	19.2	0.1262	0.0000	OK
15 minute summer	102	10	25.400	0.900	19.2	0.1944	0.4408	FLOOD
15 minute summer	104	11	24.759	0.459	20.1	0.0991	0.0000	SURCHARGED
15 minute summer	106	11	24.600	0.550	34.4	0.1188	0.0000	SURCHARGED
15 minute summer	108	11	23.931	0.431	45.9	0.0930	0.0000	SURCHARGED
15 minute summer	110	10	23.539	0.039	3.8	0.0084	0.0000	OK
15 minute summer	112	10	23.199	0.099	58.2	0.1118	0.0000	OK
15 minute summer	114	11	23.118	0.318	10.6	0.0686	0.0000	SURCHARGED
15 minute summer	116	10	22.795	0.195	17.8	0.0421	0.0000	SURCHARGED
15 minute summer	118	11	22.663	0.173	19.1	0.0375	0.0000	SURCHARGED
720 minute winter	04	705	22.311	1.222	9.5	5.5275	0.0000	OK
720 minute winter	06	705	22.311	1.261	9.2	5.7031	0.0000	OK
15 minute summer	120	11	24.016	0.566	8.6	0.1223	0.0000	FLOOD RISK
15 minute summer	122	11	23.859	0.559	16.9	0.1207	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	02	1.000	04	19.2	0.841	0.267	0.3412	
15 minute summer	102	2.000	104	14.3	1.827	1.986	0.0829	
15 minute summer	104	2.001	106	20.7	1.294	0.785	0.2016	
15 minute summer	106	2.002	108	32.9	1.870	0.985	0.2764	
15 minute summer	108	2.003	112	45.3	2.575	1.179	0.0946	
15 minute summer	110	3.000	112	3.8	1.439	0.268	0.0098	
15 minute summer	112	2.004	04	58.0	3.068	0.196	0.2193	
15 minute summer	114	4.000	116	9.5	1.210	1.334	0.0853	
15 minute summer	116	4.001	118	17.2	0.975	0.949	0.1866	
15 minute summer	118	4.002	04	18.9	1.083	1.117	0.0936	
720 minute winter	04	1.001	06	8.0	0.243	0.002	30.2255	
720 minute winter	06	1.002	08	5.7	0.204	0.002	54.2514	
15 minute summer	120	5.000	122	7.0	0.895	0.920	0.0743	
15 minute summer	122	5.001	124	15.8	2.019	2.103	0.0503	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	124	10	23.223	0.073	23.7	0.0158	0.0000	OK
720 minute winter	CS01	705	22.306	1.206	15.1	228.1046	0.0000	SURCHARGED
720 minute winter	126	690	22.307	0.307	0.7	0.0664	0.0000	SURCHARGED
720 minute winter	VC01	705	22.309	1.259	15.2	1.4237	0.0000	SURCHARGED
720 minute winter	08	705	22.310	1.328	18.8	6.0097	0.0000	OK
15 minute summer	128	10	24.062	0.262	12.5	0.0567	0.0000	SURCHARGED
15 minute summer	130	10	23.561	0.061	16.4	0.0132	0.0000	OK
15 minute summer	132	11	25.547	0.497	8.6	0.1073	0.0000	FLOOD RISK
15 minute summer	134	11	25.400	0.800	15.6	0.1728	0.1041	FLOOD
15 minute summer	136	11	24.850	0.400	4.8	0.0865	0.0000	FLOOD RISK
15 minute summer	138	11	24.787	0.587	34.2	0.1268	0.0000	SURCHARGED
15 minute summer	140	10	24.042	0.092	42.2	0.0198	0.0000	OK
15 minute summer	142	10	27.149	0.049	4.8	0.0105	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	124	5.002	08	23.6	2.948	0.402	0.0610	
720 minute winter	CS01	Orifice	VC01	1.0				
720 minute winter	126	7.000	VC01	1.3	0.442	0.016	0.0792	
720 minute winter	VC01	6.001	08	-14.5	-0.206	-0.176	0.8645	
720 minute winter	VC01	Orifice	CS01	15.1				226.3
720 minute winter	08	1.003	CC12	-7.9	0.145	-0.002	53.3470	
15 minute summer	128	8.000	130	11.6	1.488	1.175	0.0729	
15 minute summer	130	8.001	CC12	16.4	2.491	0.322	0.1005	
15 minute summer	132	9.000	134	6.6	0.956	0.557	0.0931	
15 minute summer	134	9.001	138	13.5	1.721	1.235	0.0853	
15 minute summer	136	10.000	138	4.4	0.620	0.610	0.1095	
15 minute summer	138	9.002	140	32.7	2.043	1.461	0.2283	
15 minute summer	140	9.003	CC12	41.9	3.947	0.590	0.1137	
15 minute summer	142	11.000	146	4.8	1.290	0.453	0.0614	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	144	10	27.012	0.062	5.8	0.0134	0.0000	OK
15 minute summer	146	11	26.644	0.094	27.9	0.0203	0.0000	OK
15 minute summer	148	11	26.400	0.800	12.5	0.1728	1.2654	FLOOD
15 minute summer	150	11	26.600	0.500	24.0	0.1080	0.0000	FLOOD RISK
15 minute summer	152	11	26.426	1.126	28.3	0.2431	0.0000	FLOOD RISK
15 minute summer	154	11	26.350	1.250	50.7	0.2700	0.1415	FLOOD
15 minute summer	156	10	25.300	0.650	8.8	0.1404	1.3136	FLOOD
15 minute summer	158	11	25.350	0.900	10.8	0.1944	0.4403	FLOOD
15 minute summer	160	11	25.476	0.676	7.7	0.1461	0.0000	FLOOD RISK
15 minute summer	162	11	25.389	1.089	17.7	0.2352	0.0000	FLOOD RISK
15 minute summer	164	11	25.328	1.278	76.0	0.2760	0.0000	SURCHARGED
15 minute summer	166	11	24.927	1.077	77.4	0.2327	0.0000	SURCHARGED
15 minute summer	168	11	24.482	0.832	83.4	0.1797	0.0000	SURCHARGED
15 minute summer	170	11	24.011	0.511	85.5	0.1104	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	144	12.000	146	5.8	1.162	0.666	0.0848	
15 minute summer	146	11.001	154	27.3	1.849	0.360	0.1183	
15 minute summer	148	13.000	152	8.4	1.071	1.073	0.1178	
15 minute summer	150	14.000	152	22.4	1.678	0.476	0.2025	
15 minute summer	152	13.001	154	25.7	1.627	0.626	0.0669	
15 minute summer	154	11.002	164	45.4	2.578	0.895	0.2139	
15 minute summer	156	15.000	158	4.6	0.628	0.654	0.1150	
15 minute summer	158	15.001	162	10.5	1.345	1.449	0.0544	
15 minute summer	160	16.000	162	5.9	1.337	0.391	0.0567	
15 minute summer	162	15.002	164	21.4	1.217	1.078	0.2465	
15 minute summer	164	11.003	166	72.6	1.825	1.228	0.6165	
15 minute summer	166	11.004	168	77.1	1.940	1.290	0.6025	
15 minute summer	168	11.005	170	83.1	2.091	1.511	0.5329	
15 minute summer	170	11.006	174	85.2	2.442	1.647	0.3109	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	172	10	24.287	0.037	6.7	0.0079	0.0000	OK
15 minute summer	174	11	23.521	0.121	90.8	0.0262	0.0000	OK
720 minute winter	10	705	22.311	1.311	11.9	5.9291	0.0000	OK
15 minute summer	176	11	24.930	0.530	17.3	0.1145	0.0000	FLOOD RISK
15 minute summer	178	10	23.864	0.064	20.7	0.0137	0.0000	OK
720 minute winter	CC12	705	22.311	1.393	15.3	9.8437	0.0000	SURCHARGED
15 minute summer	180	11	24.779	0.729	12.5	0.1575	0.0000	FLOOD RISK
15 minute summer	182	12	24.406	0.556	13.0	0.1200	0.0000	FLOOD RISK
15 minute summer	184	11	24.405	0.305	13.4	0.0659	0.0000	SURCHARGED
15 minute summer	186	11	23.731	0.181	24.8	0.0392	0.0000	SURCHARGED
15 minute summer	188	11	23.561	0.061	25.5	0.0132	0.0000	OK
15 minute summer	190	10	24.001	0.051	3.8	0.0111	0.0000	OK
15 minute summer	192	10	23.883	0.033	5.7	0.0072	0.0000	OK
15 minute summer	194	11	21.389	0.089	30.5	0.0192	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	172	17.000	174	6.7	2.762	0.237	0.0083	
15 minute summer	174	11.007	10	90.8	4.716	0.404	0.1175	
720 minute winter	10	11.008	CC12	9.2	0.096	0.003	66.6959	
15 minute summer	176	18.000	178	15.2	1.944	1.247	0.1072	
15 minute summer	178	18.001	CC12	20.6	3.005	0.338	0.0911	
720 minute winter	CC12	Hydro-Brake®	14	3.4				
15 minute summer	180	19.000	182	9.4	1.195	1.259	0.1041	
15 minute summer	182	19.001	186	11.6	1.477	1.526	0.1252	
15 minute summer	184	20.000	186	11.8	1.532	1.061	0.1170	
15 minute summer	186	19.002	188	24.7	1.763	1.093	0.0378	
15 minute summer	188	19.003	194	25.5	3.246	0.350	0.1179	
15 minute summer	190	21.000	192	3.8	1.206	0.429	0.0149	
15 minute summer	192	21.001	194	5.7	2.546	0.227	0.0358	
15 minute summer	194	19.004	14	30.0	3.641	0.368	0.0449	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	14	11	21.096	0.596	33.0	0.8524	0.0000	SURCHARGED
15 minute summer	196	11	22.970	0.620	19.2	0.1339	0.0000	FLOOD RISK
15 minute summer	198	11	22.720	0.670	25.3	0.1446	0.0000	FLOOD RISK
15 minute summer	200	11	22.541	0.341	11.5	0.0736	0.0000	SURCHARGED
15 minute summer	202	11	22.350	0.500	34.1	0.1081	0.0000	SURCHARGED
15 minute summer	204	11	21.850	0.250	53.5	0.0541	0.0000	SURCHARGED
15 minute summer	206	12	21.355	0.155	51.5	0.0335	0.0000	OK
15 minute summer	208	10	22.334	0.084	7.7	0.0182	0.0000	OK
15 minute summer	210	9	22.014	0.064	21.1	0.0139	0.0000	OK
15 minute summer	212	11	21.194	0.394	32.6	0.0852	0.0000	SURCHARGED
15 minute summer	16	11	21.066	1.066	125.4	1.2056	0.0000	SURCHARGED
15 minute summer	214	9	26.500	1.100	53.8	0.2376	2.9013	FLOOD
15 minute summer	216	10	25.021	0.121	47.9	0.0262	0.0000	OK
15 minute summer	218	10	24.598	0.148	70.0	0.0320	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	14	1.005	16	39.4	0.822	0.273	2.0943	
15 minute summer	196	22.000	198	15.8	0.969	0.848	0.4771	
15 minute summer	198	22.001	202	23.3	1.322	1.229	0.3098	
15 minute summer	200	23.000	202	9.6	1.443	0.713	0.0485	
15 minute summer	202	22.002	204	33.6	1.911	1.471	0.1866	
15 minute summer	204	22.003	206	51.5	1.720	1.020	1.4075	
15 minute summer	206	22.004	16	52.1	2.103	0.458	0.8169	
15 minute summer	208	24.000	210	7.7	1.126	0.953	0.0966	
15 minute summer	210	24.001	212	21.1	2.968	0.345	0.1108	
15 minute summer	212	24.002	16	30.3	3.541	0.375	0.0563	
15 minute summer	16	1.006	36	120.4	1.710	0.881	2.3366	
15 minute summer	214	25.000	216	34.5	1.960	1.723	0.5838	
15 minute summer	216	25.001	218	47.9	2.394	0.452	0.1821	
15 minute summer	218	25.002	220	70.0	2.705	0.663	0.4472	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	220	9	23.885	0.135	81.5	0.0292	0.0000	OK
15 minute summer	222	10	22.885	0.285	91.8	0.0616	0.0000	SURCHARGED
15 minute summer	224	10	22.408	0.608	109.5	0.1313	0.0000	SURCHARGED
180 minute winter	18	176	22.334	1.834	29.9	6.3514	0.0000	SURCHARGED
15 minute summer	226	11	23.850	0.150	12.5	0.0323	0.0000	SURCHARGED
15 minute summer	228	11	23.620	0.420	24.0	0.0907	0.0000	SURCHARGED
15 minute summer	230	10	23.600	0.600	17.3	0.1296	0.6722	FLOOD
15 minute summer	232	11	23.286	0.586	40.9	0.1267	0.0000	SURCHARGED
15 minute summer	234	11	22.427	0.127	9.6	0.0274	0.0000	SURCHARGED
180 minute winter	236	176	22.334	0.334	11.8	0.0722	0.0000	SURCHARGED
180 minute winter	20	176	22.334	1.857	45.3	6.4309	0.0000	SURCHARGED
15 minute summer	238	10	23.822	0.022	4.8	0.0048	0.0000	OK
180 minute winter	CS02	176	22.334	0.884	33.5	41.0727	0.0000	SURCHARGED
180 minute winter	VC02	176	22.335	0.935	34.4	1.0571	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	220	25.003	222	81.2	2.944	0.645	0.6314	
15 minute summer	222	25.004	224	89.3	2.245	0.640	0.4474	
15 minute summer	224	25.005	18	108.5	2.728	1.258	0.4733	
180 minute winter	18	25.006	20	25.7	0.320	0.013	12.6304	
15 minute summer	226	26.000	228	12.5	2.106	0.729	0.0446	
15 minute summer	228	26.001	232	20.9	1.274	0.771	0.3820	
15 minute summer	230	27.000	232	11.4	1.459	1.164	0.0751	
15 minute summer	232	26.002	236	37.2	2.112	1.112	0.3512	
15 minute summer	234	28.000	236	9.3	1.333	0.880	0.0646	
180 minute winter	236	26.003	20	11.7	2.250	0.224	0.0968	
180 minute winter	20	25.007	24	35.7	0.402	0.019	43.7265	
15 minute summer	238	30.000	VC02	4.8	3.078	0.044	0.0093	
180 minute winter	CS02	29.000	VC02	-33.5	-0.628	-0.302	0.3522	
180 minute winter	VC02	29.001	22	-30.9	0.620	-0.373	0.8074	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	22	176	22.333	1.897	32.1	6.5717	0.0000	SURCHARGED
180 minute winter	24	176	22.333	1.934	38.6	8.7504	0.0000	SURCHARGED
180 minute winter	26	176	22.333	1.971	19.3	6.8287	0.0000	SURCHARGED
180 minute winter	CC28	176	22.333	1.998	11.2	11.4430	0.0000	SURCHARGED
15 minute summer	240	10	24.500	1.100	13.4	0.2376	1.1824	FLOOD
15 minute summer	242	11	24.483	1.233	18.4	0.2664	0.0000	FLOOD RISK
15 minute summer	244	12	23.759	0.709	15.2	0.1531	0.0000	SURCHARGED
15 minute summer	246	12	23.193	0.293	14.5	0.0633	0.0000	SURCHARGED
15 minute summer	248	10	22.668	0.068	22.1	0.0146	0.0000	OK
15 minute summer	250	10	22.528	0.078	12.5	0.0168	0.0000	OK
15 minute summer	252	11	21.402	0.102	44.1	0.0220	0.0000	OK
15 minute summer	30	11	20.878	0.828	58.5	0.9363	0.0000	SURCHARGED
15 minute summer	32	11	20.844	0.944	55.3	1.0677	0.0000	SURCHARGED
15 minute summer	254	11	22.550	1.050	27.8	0.2268	0.1032	FLOOD

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	22	29.002	24	-28.5	0.193	-0.015	20.5546	
180 minute winter	24	25.008	26	19.3	0.410	0.010	20.6098	
180 minute winter	26	25.009	CC28	11.2	0.380	0.006	14.9695	
180 minute winter	CC28	Hydro-Brake®	30	7.0				
15 minute summer	240	31.000	242	5.9	0.760	0.834	0.0845	
15 minute summer	242	31.001	244	13.3	1.697	1.868	0.1135	
15 minute summer	244	31.002	246	13.1	1.669	1.743	0.0767	
15 minute summer	246	31.003	248	14.1	1.800	1.180	0.0508	
15 minute summer	248	31.004	252	22.0	2.669	0.417	0.1512	
15 minute summer	250	32.000	252	12.5	1.966	0.890	0.1315	
15 minute summer	252	31.005	30	43.5	4.102	0.513	0.0743	
15 minute summer	30	25.011	32	55.3	1.540	0.374	0.5986	
15 minute summer	32	25.012	34	52.2	1.128	0.376	1.1338	
15 minute summer	254	33.000	258	21.2	1.207	0.830	0.2984	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	256	11	22.200	0.800	10.4	0.1728	0.7815	FLOOD
15 minute summer	258	11	22.250	1.100	40.7	0.2376	0.0000	FLOOD RISK
15 minute summer	260	10	21.700	0.900	17.3	0.1944	0.8351	FLOOD
15 minute summer	262	11	21.360	0.860	55.2	0.1858	0.0000	SURCHARGED
15 minute summer	34	11	20.794	1.144	110.3	1.6366	0.0000	SURCHARGED
15 minute summer	264	9	21.697	0.047	8.6	0.0101	0.0000	OK
15 minute summer	266	11	20.673	0.373	25.1	0.0805	0.0000	SURCHARGED
15 minute summer	36	11	20.599	1.099	245.1	1.5725	0.0000	SURCHARGED
1440 minute winter	BASIN	1440	19.772	1.071	25.6	769.9528	0.0000	SURCHARGED
15 minute summer	268	11	23.039	0.339	11.5	0.0733	0.0000	SURCHARGED
15 minute summer	270	12	22.584	0.484	11.1	0.1045	0.0000	SURCHARGED
15 minute summer	272	11	22.587	0.187	10.6	0.0403	0.0000	SURCHARGED
15 minute summer	274	11	22.238	0.338	24.3	0.0729	0.0000	SURCHARGED
15 minute summer	276	11	22.430	0.230	10.6	0.0496	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	256	34.000	258	7.3	0.935	1.058	0.1205	
15 minute summer	258	33.001	262	34.2	1.942	1.083	0.3662	
15 minute summer	260	35.000	262	9.8	1.257	1.297	0.1248	
15 minute summer	262	33.002	34	51.5	3.645	0.686	0.0704	
15 minute summer	34	25.013	36	107.1	1.521	0.931	0.9857	
15 minute summer	264	36.000	266	8.8	2.222	0.442	0.0698	
15 minute summer	266	36.001	36	22.5	2.331	0.274	0.0546	
15 minute summer	36	1.007	BASIN	243.9	3.464	2.433	0.8548	
1440 minute winter	BASIN	1.008	CC38	17.9	0.455	0.059	0.8977	
15 minute summer	268	37.000	270	9.2	1.209	0.834	0.1416	
15 minute summer	270	37.001	274	10.6	1.355	1.497	0.0857	
15 minute summer	272	38.000	274	10.2	1.434	0.958	0.1138	
15 minute summer	274	37.002	278	22.1	1.377	0.965	0.2130	
15 minute summer	276	39.000	278	9.8	1.320	1.013	0.1389	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	278	11	22.008	0.308	33.8	0.0666	0.0000	SURCHARGED
15 minute summer	280	11	21.759	0.359	37.5	0.0775	0.0000	SURCHARGED
15 minute summer	282	11	21.489	0.439	44.4	0.0948	0.0000	SURCHARGED
15 minute summer	284	10	21.400	0.950	75.2	0.2052	1.6058	FLOOD
30 minute summer	286	17	21.100	1.100	72.2	0.2376	2.4980	FLOOD
15 minute summer	288	10	20.900	1.300	81.1	0.2808	1.8256	FLOOD
15 minute summer	290	10	20.595	1.195	83.9	0.2582	0.0000	FLOOD RISK
15 minute summer	292	10	20.450	0.880	16.5	0.1901	1.4810	FLOOD
15 minute summer	294	10	20.457	0.957	22.4	0.2067	0.0000	FLOOD RISK
15 minute winter	296	10	20.440	1.090	98.8	0.2354	0.0000	FLOOD RISK
15 minute summer	298	11	21.300	0.750	11.5	0.1620	0.2213	FLOOD
15 minute summer	300	11	21.190	0.840	12.9	0.1814	0.0000	SURCHARGED
15 minute summer	302	11	20.788	0.688	18.3	0.1487	0.0000	FLOOD RISK
1440 minute winter	304	1440	19.771	0.771	7.9	0.1666	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	278	37.003	280	33.7	2.049	0.774	0.0889	
15 minute summer	280	37.004	282	36.7	2.394	0.811	0.0757	
15 minute summer	282	37.005	284	40.7	1.610	0.313	0.3858	
15 minute summer	284	37.006	286	59.2	1.865	0.716	0.7139	
30 minute summer	286	37.007	288	60.0	1.509	0.594	0.4256	
15 minute summer	288	37.008	290	70.5	1.774	1.188	0.6105	
15 minute summer	290	37.009	296	77.3	1.944	1.101	0.1094	
15 minute summer	292	40.000	294	7.8	0.619	0.137	0.2307	
15 minute summer	294	40.001	296	18.7	0.658	0.342	0.5409	
15 minute winter	296	37.010	304	98.4	2.475	1.592	0.7755	
15 minute summer	298	41.000	300	7.1	0.909	0.827	0.0779	
15 minute summer	300	41.001	302	9.9	1.261	1.238	0.1131	
15 minute summer	302	41.002	304	15.9	2.027	1.073	0.1197	
1440 minute winter	304	37.011	306	7.8	0.621	0.072	1.1126	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	306	1440	19.771	0.921	8.0	0.1990	0.0000	SURCHARGED
1440 minute winter	CC38	1440	19.771	1.121	19.7	6.4209	0.0000	SURCHARGED
15 minute summer	40	593	18.373	0.073	9.2	0.0828	0.0000	OK
15 minute summer	42	593	18.041	0.041	9.2	0.0468	0.0000	OK
15 minute winter	44	6	16.516	0.066	9.2	0.0748	0.0000	OK
15 minute winter	46	7	15.004	0.054	9.2	0.0614	0.0000	OK
15 minute summer	48	595	12.481	0.081	9.2	0.0915	0.0000	OK
15 minute summer	50	595	11.629	0.080	9.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	306	37.012	CC38	8.0	0.484	0.100	0.6760	
1440 minute winter	CC38	Hydro-Brake®	40	9.2				
15 minute summer	40	1.010	42	9.2	1.489	0.399	0.1115	
15 minute summer	42	1.011	44	9.2	1.946	0.166	0.0916	
15 minute winter	44	1.012	46	9.2	1.514	0.369	0.5023	
15 minute winter	46	1.013	48	9.3	1.779	0.274	0.5417	
15 minute summer	48	1.014	50	9.2	0.956	0.561	0.9591	571.3