

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	5.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	17.000	Minimum Backdrop Height (m)	1.000
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
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)	Easting (m)	Northing (m)	Depth (m)
1	0.014	5.00	50.624	600	385634.056	398189.968	1.785
2	0.014	5.00	50.226	600	385643.228	398177.677	1.425
3	0.013	5.00	49.464	600	385651.630	398166.177	1.425
4			48.629	600	385658.692	398156.322	1.425
5	0.015	5.00	50.567	1200	385621.110	398180.396	1.350
6	0.013	5.00	49.897	1200	385630.059	398168.430	2.608
7	0.012	5.00	49.189	1500	385638.622	398156.467	2.000
8			48.409	1800	385645.505	398147.014	1.800
8_OUT			48.308	1250	385641.903	398141.405	1.766

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	1	2	15.336	0.600	48.839	48.801	0.038	403.6	225	5.00	50.0
1.001	2	3	14.242	0.600	48.801	48.039	0.762	18.7	225	5.00	50.0
1.002	3	4	12.124	0.600	48.039	47.204	0.835	14.5	225	5.00	50.0
1.003	4	8	16.141	0.600	47.204	46.609	0.595	27.1	225	5.00	50.0
2.000	5	6	14.942	0.600	49.217	48.750	0.467	32.0	150	5.00	50.0
2.001	6	7	14.712	0.600	47.289	47.189	0.100	147.1	600	5.00	50.0
2.002	7	8	11.693	0.600	47.189	46.609	0.580	20.2	600	5.00	50.0
1.004	8	8_OUT	6.666	0.600	46.609	46.542	0.067	99.5	150	5.00	50.0

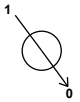
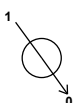
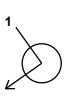
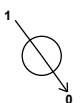
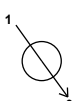
Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.645	25.6	1.9	1.560	1.200	0.014	0.0	42	0.381
1.001	3.040	120.9	3.8	1.200	1.200	0.028	0.0	27	1.381
1.002	3.451	137.2	5.6	1.200	1.200	0.041	0.0	30	1.694
1.003	2.521	100.3	5.6	1.200	1.575	0.041	0.0	36	1.364
2.000	1.786	31.6	2.0	1.200	0.997	0.015	0.0	25	0.999
2.001	2.005	567.0	3.8	2.008	1.400	0.028	0.0	34	0.584
2.002	5.439	1537.8	5.4	1.400	1.200	0.040	0.0	25	1.318
1.004	1.007	17.8	11.0	1.650	1.616	0.081	0.0	85	1.059

Pipeline Schedule

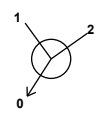
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	15.336	403.6	225	Circular	50.624	48.839	1.560	50.226	48.801	1.200
1.001	14.242	18.7	225	Circular	50.226	48.801	1.200	49.464	48.039	1.200
1.002	12.124	14.5	225	Circular	49.464	48.039	1.200	48.629	47.204	1.200
1.003	16.141	27.1	225	Circular	48.629	47.204	1.200	48.409	46.609	1.575
2.000	14.942	32.0	150	Circular	50.567	49.217	1.200	49.897	48.750	0.997
2.001	14.712	147.1	600	Circular	49.897	47.289	2.008	49.189	47.189	1.400
2.002	11.693	20.2	600	Circular	49.189	47.189	1.400	48.409	46.609	1.200
1.004	6.666	99.5	150	Circular	48.409	46.609	1.650	48.308	46.542	1.616

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	1	600	Manhole	Adoptable	2	600	Manhole	Adoptable
1.001	2	600	Manhole	Adoptable	3	600	Manhole	Adoptable
1.002	3	600	Manhole	Adoptable	4	600	Manhole	Adoptable
1.003	4	600	Manhole	Adoptable	8	1800	Manhole	Adoptable
2.000	5	1200	Manhole	Adoptable	6	1200	Manhole	Adoptable
2.001	6	1200	Manhole	Adoptable	7	1500	Manhole	Adoptable
2.002	7	1500	Manhole	Adoptable	8	1800	Manhole	Adoptable
1.004	8	1800	Manhole	Adoptable	8_OUT	1250	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
1	385634.056	398189.968	50.624	1.785	600				
2	385643.228	398177.677	50.226	1.425	600				
3	385651.630	398166.177	49.464	1.425	600				
4	385658.692	398156.322	48.629	1.425	600				
5	385621.110	398180.396	50.567	1.350	1200				
6	385630.059	398168.430	49.897	2.608	1200				
7	385638.622	398156.467	49.189	2.000	1500				

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
8	385645.505	398147.014	48.409	1.800	1800		1 2 0	2.002 1.003 1.004	46.609 46.609 46.609	600 225 150
8_OUT	385641.903	398141.405	48.308	1.766	1250		1	1.004	46.542	150

Simulation Settings

Rainfall Methodology	FSR	Drain Down Time (mins)	1440
FSR Region	England and Wales	Additional Storage (m³/ha)	0.0
M5-60 (mm)	17.000	Check Discharge Rate(s)	✓
Ratio-R	0.400	1 year (l/s)	5.0
Summer CV	0.750	30 year (l/s)	5.0
Winter CV	0.840	100 year (l/s)	5.0
Analysis Speed	Normal	Check Discharge Volume	✓
Skip Steady State	x	100 year 360 minute (m³)	

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 %)
30	0	0	0
100	40	0	0

Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 30 year	1.95
Greenfield Method	IH124	Growth Factor 100 year	2.48
Positively Drained Area (ha)		Betterment (%)	0
SAAR (mm)		QBar	
Soil Index	1	Q 1 year (l/s)	
SPR	0.10	Q 30 year (l/s)	
Region	1	Q 100 year (l/s)	
Growth Factor 1 year	0.85		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	0
Positively Drained Area (ha)		Storm Duration (mins)	360
Soil Index	1	Betterment (%)	0
SPR	0.10	PR	
CWI		Runoff Volume (m³)	

Node 8 Online Hydro-Brake® Control

Flap Valve	✓	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	46.609	Product Number	CTL-SHE-0095-5000-1750-5000
Design Depth (m)	1.750	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 15 minute summer	226.195	64.005	100 year +40% CC 15 minute summer	408.473	115.584
30 year 15 minute winter	158.733	64.005	100 year +40% CC 15 minute winter	286.647	115.584
30 year 30 minute summer	147.452	41.724	100 year +40% CC 30 minute summer	268.775	76.054
30 year 30 minute winter	103.475	41.724	100 year +40% CC 30 minute winter	188.614	76.054
30 year 60 minute summer	98.615	26.061	100 year +40% CC 60 minute summer	180.954	47.821
30 year 60 minute winter	65.517	26.061	100 year +40% CC 60 minute winter	120.222	47.821
30 year 120 minute summer	59.946	15.842	100 year +40% CC 120 minute summer	110.370	29.168
30 year 120 minute winter	39.827	15.842	100 year +40% CC 120 minute winter	73.327	29.168
30 year 180 minute summer	45.598	11.734	100 year +40% CC 180 minute summer	83.953	21.604
30 year 180 minute winter	29.640	11.734	100 year +40% CC 180 minute winter	54.572	21.604
30 year 240 minute summer	35.759	9.450	100 year +40% CC 240 minute summer	65.765	17.380
30 year 240 minute winter	23.758	9.450	100 year +40% CC 240 minute winter	43.693	17.380
30 year 360 minute summer	26.939	6.932	100 year +40% CC 360 minute summer	49.370	12.705
30 year 360 minute winter	17.511	6.932	100 year +40% CC 360 minute winter	32.092	12.705
30 year 480 minute summer	20.981	5.545	100 year +40% CC 480 minute summer	38.291	10.119
30 year 480 minute winter	13.940	5.545	100 year +40% CC 480 minute winter	25.439	10.119
30 year 600 minute summer	17.039	4.661	100 year +40% CC 600 minute summer	30.992	8.477
30 year 600 minute winter	11.642	4.661	100 year +40% CC 600 minute winter	21.176	8.477
30 year 720 minute summer	15.093	4.045	100 year +40% CC 720 minute summer	27.387	7.340
30 year 720 minute winter	10.143	4.045	100 year +40% CC 720 minute winter	18.406	7.340
30 year 960 minute summer	12.278	3.233	100 year +40% CC 960 minute summer	22.191	5.844
30 year 960 minute winter	8.133	3.233	100 year +40% CC 960 minute winter	14.700	5.844
30 year 1440 minute summer	8.788	2.355	100 year +40% CC 1440 minute summer	15.789	4.232
30 year 1440 minute winter	5.906	2.355	100 year +40% CC 1440 minute winter	10.611	4.232

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	48.899	0.060	4.1	0.0169	0.0000	OK
15 minute winter	2	10	48.840	0.039	8.1	0.0111	0.0000	OK
15 minute winter	3	10	48.084	0.045	11.8	0.0127	0.0000	OK
30 minute winter	4	28	47.449	0.245	9.1	0.0692	0.0000	SURCHARGED
15 minute winter	5	10	49.256	0.039	4.4	0.0437	0.0000	OK
30 minute winter	6	28	47.450	0.161	6.3	0.1820	0.0000	OK
30 minute winter	7	29	47.449	0.260	9.3	0.4592	0.0000	OK
30 minute winter	8	29	47.449	0.840	17.8	2.1368	0.0000	SURCHARGED
15 minute summer	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	4.0	0.622	0.157	0.1001	
15 minute winter	2	1.001	3	8.0	1.568	0.066	0.0729	
15 minute winter	3	1.002	4	11.7	1.888	0.086	0.2459	
30 minute winter	4	1.003	8	9.0	0.635	0.089	0.6419	
15 minute winter	5	2.000	6	4.3	1.233	0.137	0.0525	
30 minute winter	6	2.001	7	6.6	0.802	0.012	1.3055	
30 minute winter	7	2.002	8	8.8	0.671	0.006	2.3304	
30 minute winter	8	Hydro-Brake®	8_OUT	4.5				14.2

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	48.919	0.080	7.4	0.0226	0.0000	OK
15 minute winter	2	10	48.855	0.054	14.7	0.0152	0.0000	OK
60 minute winter	3	49	48.316	0.277	11.2	0.0783	0.0000	SURCHARGED
60 minute winter	4	50	48.315	1.111	11.2	0.3145	0.0000	SURCHARGED
15 minute winter	5	10	49.270	0.053	7.9	0.0598	0.0000	OK
60 minute winter	6	49	48.318	1.029	7.7	1.1642	0.0000	SURCHARGED
60 minute winter	7	50	48.317	1.128	9.7	1.9938	0.0000	SURCHARGED
60 minute winter	8	49	48.316	1.707	15.0	4.3438	0.0000	FLOOD RISK
15 minute summer	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	7.3	0.741	0.284	0.1520	
15 minute winter	2	1.001	3	14.6	1.864	0.120	0.1114	
60 minute winter	3	1.002	4	11.2	1.718	0.082	0.4822	
60 minute winter	4	1.003	8	9.6	0.632	0.095	0.6419	
15 minute winter	5	2.000	6	7.8	1.447	0.247	0.0806	
60 minute winter	6	2.001	7	6.3	0.755	0.011	4.1440	
60 minute winter	7	2.002	8	7.4	0.650	0.005	3.2937	
60 minute winter	8	Hydro-Brake®	8_OUT	4.9				32.6

Results for 30 year 15 minute summer. 1455 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	48.897	0.058	3.9	0.0165	0.0000	OK
15 minute summer	2	10	48.839	0.038	7.7	0.0109	0.0000	OK
15 minute summer	3	10	48.083	0.044	11.3	0.0124	0.0000	OK
15 minute summer	4	16	47.361	0.157	11.2	0.0445	0.0000	OK
15 minute summer	5	10	49.255	0.038	4.2	0.0427	0.0000	OK
15 minute summer	6	17	47.363	0.074	7.7	0.0833	0.0000	OK
15 minute summer	7	16	47.357	0.168	11.0	0.2960	0.0000	OK
15 minute summer	8	16	47.358	0.749	22.0	1.9061	0.0000	SURCHARGED
15 minute summer	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	3.8	0.614	0.150	0.0970	
15 minute summer	2	1.001	3	7.7	1.553	0.064	0.0706	
15 minute summer	3	1.002	4	11.2	1.864	0.082	0.1902	
15 minute summer	4	1.003	8	11.1	0.720	0.111	0.5603	
15 minute summer	5	2.000	6	4.2	1.219	0.132	0.0509	
15 minute summer	6	2.001	7	7.7	0.850	0.014	0.6131	
15 minute summer	7	2.002	8	10.9	0.747	0.007	2.0222	
15 minute summer	8	Hydro-Brake®	8_OUT	4.5				9.7

Results for 30 year 15 minute winter. 1455 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	48.899	0.060	4.1	0.0169	0.0000	OK
15 minute winter	2	10	48.840	0.039	8.1	0.0111	0.0000	OK
15 minute winter	3	10	48.084	0.045	11.8	0.0127	0.0000	OK
15 minute winter	4	16	47.413	0.209	11.7	0.0590	0.0000	OK
15 minute winter	5	10	49.256	0.039	4.4	0.0437	0.0000	OK
15 minute winter	6	16	47.412	0.123	8.1	0.1391	0.0000	OK
15 minute winter	7	17	47.410	0.221	11.5	0.3913	0.0000	OK
15 minute winter	8	17	47.410	0.801	23.1	2.0391	0.0000	SURCHARGED
15 minute winter	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	4.0	0.622	0.157	0.1001	
15 minute winter	2	1.001	3	8.0	1.568	0.066	0.0729	
15 minute winter	3	1.002	4	11.7	1.888	0.086	0.2459	
15 minute winter	4	1.003	8	11.6	0.771	0.116	0.6311	
15 minute winter	5	2.000	6	4.3	1.233	0.137	0.0525	
15 minute winter	6	2.001	7	8.2	0.860	0.014	0.9909	
15 minute winter	7	2.002	8	11.4	0.744	0.007	2.1990	
15 minute winter	8	Hydro-Brake®	8_OUT	4.5				10.9

Results for 30 year 30 minute summer. 1470 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	48.895	0.056	3.5	0.0157	0.0000	OK
30 minute summer	2	18	48.838	0.037	7.0	0.0104	0.0000	OK
30 minute summer	3	18	48.081	0.042	10.2	0.0118	0.0000	OK
30 minute summer	4	26	47.390	0.186	10.2	0.0526	0.0000	OK
30 minute summer	5	18	49.253	0.036	3.7	0.0402	0.0000	OK
30 minute summer	6	24	47.388	0.099	6.9	0.1121	0.0000	OK
30 minute summer	7	26	47.384	0.195	9.9	0.3445	0.0000	OK
30 minute summer	8	26	47.384	0.775	20.1	1.9734	0.0000	SURCHARGED
30 minute summer	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	3.5	0.599	0.137	0.0907	
30 minute summer	2	1.001	3	7.0	1.518	0.058	0.0658	
30 minute summer	3	1.002	4	10.2	1.814	0.074	0.2223	
30 minute summer	4	1.003	8	10.2	0.665	0.102	0.6042	
30 minute summer	5	2.000	6	3.7	1.181	0.117	0.0468	
30 minute summer	6	2.001	7	6.9	0.826	0.012	0.8024	
30 minute summer	7	2.002	8	9.9	0.629	0.006	2.1104	
30 minute summer	8	Hydro-Brake®	8_OUT	4.5				12.7

Results for 30 year 30 minute winter. 1470 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	18	48.892	0.052	3.1	0.0149	0.0000	OK
30 minute winter	2	18	48.836	0.035	6.2	0.0098	0.0000	OK
30 minute winter	3	18	48.078	0.039	9.1	0.0111	0.0000	OK
30 minute winter	4	28	47.449	0.245	9.1	0.0692	0.0000	SURCHARGED
30 minute winter	5	18	49.251	0.034	3.4	0.0385	0.0000	OK
30 minute winter	6	28	47.450	0.161	6.3	0.1820	0.0000	OK
30 minute winter	7	29	47.449	0.260	9.3	0.4592	0.0000	OK
30 minute winter	8	29	47.449	0.840	17.8	2.1368	0.0000	SURCHARGED
30 minute winter	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	3.1	0.577	0.121	0.0833	
30 minute winter	2	1.001	3	6.2	1.463	0.051	0.0604	
30 minute winter	3	1.002	4	9.1	1.755	0.066	0.2564	
30 minute winter	4	1.003	8	9.0	0.635	0.089	0.6419	
30 minute winter	5	2.000	6	3.4	1.154	0.108	0.0440	
30 minute winter	6	2.001	7	6.6	0.802	0.012	1.3055	
30 minute winter	7	2.002	8	8.8	0.671	0.006	2.3304	
30 minute winter	8	Hydro-Brake®	8_OUT	4.5				14.2

Results for 30 year 60 minute summer. 1500 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	33	48.887	0.048	2.6	0.0137	0.0000	OK
60 minute summer	2	33	48.833	0.032	5.2	0.0090	0.0000	OK
60 minute summer	3	33	48.075	0.036	7.6	0.0102	0.0000	OK
60 minute summer	4	43	47.369	0.165	7.6	0.0468	0.0000	OK
60 minute summer	5	33	49.248	0.031	2.8	0.0349	0.0000	OK
60 minute summer	6	42	47.370	0.081	5.2	0.0917	0.0000	OK
60 minute summer	7	43	47.367	0.178	7.4	0.3139	0.0000	OK
60 minute summer	8	42	47.367	0.758	15.0	1.9293	0.0000	SURCHARGED
60 minute summer	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	2.6	0.547	0.101	0.0739	
60 minute summer	2	1.001	3	5.2	1.395	0.043	0.0532	
60 minute summer	3	1.002	4	7.6	1.668	0.055	0.1993	
60 minute summer	4	1.003	8	7.6	0.587	0.076	0.5736	
60 minute summer	5	2.000	6	2.8	1.092	0.089	0.0383	
60 minute summer	6	2.001	7	5.3	0.756	0.009	0.6788	
60 minute summer	7	2.002	8	7.4	0.595	0.005	2.0549	
60 minute summer	8	Hydro-Brake®	8_OUT	4.5				15.9

Results for 30 year 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	33	48.883	0.044	2.1	0.0124	0.0000	OK
60 minute winter	2	33	48.830	0.029	4.2	0.0081	0.0000	OK
60 minute winter	3	33	48.071	0.032	6.1	0.0091	0.0000	OK
60 minute winter	4	46	47.405	0.201	6.1	0.0569	0.0000	OK
60 minute winter	5	33	49.244	0.027	2.2	0.0309	0.0000	OK
60 minute winter	6	47	47.405	0.116	4.1	0.1312	0.0000	OK
60 minute winter	7	46	47.405	0.216	5.9	0.3814	0.0000	OK
60 minute winter	8	46	47.405	0.796	11.9	2.0255	0.0000	SURCHARGED
60 minute winter	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	2.1	0.511	0.082	0.0638	
60 minute winter	2	1.001	3	4.2	1.312	0.035	0.0457	
60 minute winter	3	1.002	4	6.1	1.564	0.044	0.2376	
60 minute winter	4	1.003	8	6.1	0.627	0.061	0.6233	
60 minute winter	5	2.000	6	2.2	1.018	0.070	0.0323	
60 minute winter	6	2.001	7	4.1	0.697	0.007	0.9501	
60 minute winter	7	2.002	8	5.9	0.612	0.004	2.1799	
60 minute winter	8	Hydro-Brake®	8_OUT	4.5				17.7

Results for 30 year 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	64	48.879	0.040	1.7	0.0112	0.0000	OK
120 minute summer	2	64	48.827	0.026	3.4	0.0073	0.0000	OK
120 minute summer	3	64	48.068	0.029	5.0	0.0083	0.0000	OK
120 minute summer	4	76	47.274	0.070	5.0	0.0198	0.0000	OK
120 minute summer	5	64	49.242	0.025	1.8	0.0280	0.0000	OK
120 minute summer	6	64	47.324	0.035	3.4	0.0395	0.0000	OK
120 minute summer	7	76	47.275	0.086	4.8	0.1518	0.0000	OK
120 minute summer	8	76	47.275	0.666	9.8	1.6946	0.0000	SURCHARGED
120 minute summer	8_OUT	2	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	1.7	0.478	0.066	0.0552	
120 minute summer	2	1.001	3	3.4	1.223	0.028	0.0396	
120 minute summer	3	1.002	4	5.0	1.471	0.036	0.0738	
120 minute summer	4	1.003	8	5.0	0.498	0.050	0.4059	
120 minute summer	5	2.000	6	1.8	0.961	0.057	0.0280	
120 minute summer	6	2.001	7	3.4	0.664	0.006	0.2054	
120 minute summer	7	2.002	8	4.8	0.454	0.003	1.7912	
120 minute summer	8	Hydro-Brake®	8_OUT	4.5				19.3

Results for 30 year 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	64	48.874	0.035	1.3	0.0099	0.0000	OK
120 minute winter	2	64	48.824	0.023	2.6	0.0065	0.0000	OK
120 minute winter	3	62	48.065	0.026	3.8	0.0073	0.0000	OK
120 minute winter	4	80	47.264	0.060	3.8	0.0168	0.0000	OK
120 minute winter	5	64	49.239	0.022	1.4	0.0247	0.0000	OK
120 minute winter	6	64	47.320	0.031	2.6	0.0349	0.0000	OK
120 minute winter	7	80	47.263	0.074	3.7	0.1305	0.0000	OK
120 minute winter	8	80	47.263	0.654	7.5	1.6642	0.0000	SURCHARGED
120 minute winter	8_OUT	2	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	1.3	0.439	0.051	0.0460	
120 minute winter	2	1.001	3	2.6	1.133	0.022	0.0328	
120 minute winter	3	1.002	4	3.8	1.354	0.028	0.0611	
120 minute winter	4	1.003	8	3.8	0.442	0.038	0.3886	
120 minute winter	5	2.000	6	1.4	0.893	0.044	0.0234	
120 minute winter	6	2.001	7	2.6	0.619	0.005	0.1710	
120 minute winter	7	2.002	8	3.7	0.436	0.002	1.7626	
120 minute winter	8	Hydro-Brake®	8_OUT	4.5				21.4

Results for 30 year 180 minute summer. 1620 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	48.873	0.034	1.2	0.0095	0.0000	OK
180 minute summer	2	96	48.823	0.022	2.4	0.0062	0.0000	OK
180 minute summer	3	96	48.064	0.025	3.6	0.0071	0.0000	OK
180 minute summer	4	96	47.233	0.029	3.6	0.0082	0.0000	OK
180 minute summer	5	96	49.238	0.021	1.3	0.0238	0.0000	OK
180 minute summer	6	96	47.319	0.030	2.5	0.0343	0.0000	OK
180 minute summer	7	96	47.211	0.022	3.6	0.0382	0.0000	OK
180 minute summer	8	108	47.106	0.497	7.2	1.2658	0.0000	SURCHARGED
180 minute summer	8_OUT	4	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	1.2	0.427	0.047	0.0436	
180 minute summer	2	1.001	3	2.4	1.093	0.020	0.0313	
180 minute summer	3	1.002	4	3.6	1.331	0.026	0.0328	
180 minute summer	4	1.003	8	3.6	0.448	0.036	0.3452	
180 minute summer	5	2.000	6	1.3	0.874	0.041	0.0222	
180 minute summer	6	2.001	7	2.5	0.610	0.004	0.0615	
180 minute summer	7	2.002	8	3.6	0.335	0.002	1.4722	
180 minute summer	8	Hydro-Brake®	8_OUT	4.5				21.0

Results for 30 year 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	96	48.870	0.031	1.0	0.0088	0.0000	OK
180 minute winter	2	96	48.821	0.020	2.0	0.0057	0.0000	OK
180 minute winter	3	96	48.062	0.023	2.9	0.0064	0.0000	OK
180 minute winter	4	96	47.230	0.026	2.9	0.0074	0.0000	OK
180 minute winter	5	96	49.236	0.019	1.0	0.0210	0.0000	OK
180 minute winter	6	92	47.316	0.027	1.9	0.0303	0.0000	OK
180 minute winter	7	92	47.208	0.019	2.7	0.0335	0.0000	OK
180 minute winter	8	108	46.989	0.380	5.6	0.9662	0.0000	SURCHARGED
180 minute winter	8_OUT	4	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	1.0	0.402	0.039	0.0387	
180 minute winter	2	1.001	3	2.0	1.048	0.017	0.0272	
180 minute winter	3	1.002	4	2.9	1.251	0.021	0.0282	
180 minute winter	4	1.003	8	2.9	0.425	0.029	0.3418	
180 minute winter	5	2.000	6	1.0	0.808	0.032	0.0185	
180 minute winter	6	2.001	7	1.9	0.562	0.003	0.0504	
180 minute winter	7	2.002	8	2.7	0.474	0.002	1.1119	
180 minute winter	8	Hydro-Brake®	8_OUT	4.5				24.5

Results for 30 year 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	48.870	0.031	1.0	0.0088	0.0000	OK
240 minute summer	2	124	48.821	0.020	2.0	0.0057	0.0000	OK
240 minute summer	3	124	48.062	0.023	3.0	0.0065	0.0000	OK
240 minute summer	4	124	47.231	0.027	3.0	0.0076	0.0000	OK
240 minute summer	5	124	49.236	0.019	1.1	0.0219	0.0000	OK
240 minute summer	6	124	47.317	0.028	2.1	0.0315	0.0000	OK
240 minute summer	7	124	47.209	0.020	3.0	0.0350	0.0000	OK
240 minute summer	8	136	46.944	0.335	5.9	0.8519	0.0000	SURCHARGED
240 minute summer	8_OUT	4	46.542	0.000	4.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	1.0	0.402	0.039	0.0387	
240 minute summer	2	1.001	3	2.0	1.047	0.017	0.0275	
240 minute summer	3	1.002	4	3.0	1.265	0.022	0.0289	
240 minute summer	4	1.003	8	3.0	0.425	0.030	0.3423	
240 minute summer	5	2.000	6	1.1	0.829	0.035	0.0197	
240 minute summer	6	2.001	7	2.1	0.577	0.004	0.0538	
240 minute summer	7	2.002	8	3.0	0.474	0.002	0.9575	
240 minute summer	8	Hydro-Brake®	8_OUT	4.4				22.5

Results for 30 year 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	124	48.867	0.028	0.8	0.0080	0.0000	OK
240 minute winter	2	124	48.819	0.018	1.6	0.0051	0.0000	OK
240 minute winter	3	124	48.059	0.020	2.3	0.0058	0.0000	OK
240 minute winter	4	128	47.228	0.024	2.3	0.0067	0.0000	OK
240 minute winter	5	116	49.234	0.017	0.8	0.0189	0.0000	OK
240 minute winter	6	116	47.313	0.024	1.5	0.0272	0.0000	OK
240 minute winter	7	124	47.206	0.017	2.2	0.0306	0.0000	OK
240 minute winter	8	136	46.819	0.210	4.5	0.5347	0.0000	SURCHARGED
240 minute winter	8_OUT	4	46.542	0.000	4.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	0.8	0.372	0.031	0.0335	
240 minute winter	2	1.001	3	1.6	0.984	0.013	0.0232	
240 minute winter	3	1.002	4	2.3	1.163	0.017	0.0240	
240 minute winter	4	1.003	8	2.3	0.425	0.023	0.3282	
240 minute winter	5	2.000	6	0.8	0.756	0.025	0.0158	
240 minute winter	6	2.001	7	1.5	0.524	0.003	0.0430	
240 minute winter	7	2.002	8	2.2	0.474	0.001	0.5263	
240 minute winter	8	Hydro-Brake®	8_OUT	4.1				25.0

Results for 30 year 360 minute summer. 1800 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	48.867	0.028	0.8	0.0080	0.0000	OK
360 minute summer	2	184	48.819	0.018	1.6	0.0051	0.0000	OK
360 minute summer	3	184	48.059	0.020	2.3	0.0057	0.0000	OK
360 minute summer	4	184	47.227	0.023	2.3	0.0066	0.0000	OK
360 minute summer	5	184	49.234	0.017	0.8	0.0189	0.0000	OK
360 minute summer	6	184	47.313	0.024	1.5	0.0270	0.0000	OK
360 minute summer	7	184	47.206	0.017	2.2	0.0305	0.0000	OK
360 minute summer	8	192	46.784	0.175	4.4	0.4442	0.0000	SURCHARGED
360 minute summer	8_OUT	8	46.542	0.000	4.0	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	0.8	0.370	0.031	0.0334	
360 minute summer	2	1.001	3	1.6	0.981	0.013	0.0231	
360 minute summer	3	1.002	4	2.3	1.161	0.017	0.0238	
360 minute summer	4	1.003	8	2.3	0.208	0.023	0.2830	
360 minute summer	5	2.000	6	0.8	0.755	0.025	0.0157	
360 minute summer	6	2.001	7	1.5	0.517	0.003	0.0427	
360 minute summer	7	2.002	8	2.2	0.132	0.001	0.4094	
360 minute summer	8	Hydro-Brake®	8_OUT	4.0				26.4

Results for 30 year 360 minute winter. 1800 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	184	48.864	0.025	0.6	0.0071	0.0000	OK
360 minute winter	2	184	48.817	0.016	1.2	0.0045	0.0000	OK
360 minute winter	3	184	48.057	0.018	1.7	0.0050	0.0000	OK
360 minute winter	4	184	47.224	0.020	1.7	0.0058	0.0000	OK
360 minute winter	5	176	49.232	0.015	0.6	0.0164	0.0000	OK
360 minute winter	6	176	47.310	0.021	1.1	0.0236	0.0000	OK
360 minute winter	7	176	47.204	0.015	1.6	0.0267	0.0000	OK
360 minute winter	8	192	46.718	0.109	3.3	0.2787	0.0000	OK
360 minute winter	8_OUT	8	46.542	0.000	3.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	0.6	0.336	0.023	0.0278	
360 minute winter	2	1.001	3	1.2	0.902	0.010	0.0189	
360 minute winter	3	1.002	4	1.7	1.063	0.012	0.0194	
360 minute winter	4	1.003	8	1.7	0.299	0.017	0.1690	
360 minute winter	5	2.000	6	0.6	0.694	0.019	0.0129	
360 minute winter	6	2.001	7	1.1	0.472	0.002	0.0346	
360 minute winter	7	2.002	8	1.6	0.250	0.001	0.2154	
360 minute winter	8	Hydro-Brake®	8_OUT	3.3				28.6

Results for 30 year 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	248	48.864	0.025	0.6	0.0071	0.0000	OK
480 minute summer	2	248	48.817	0.016	1.2	0.0045	0.0000	OK
480 minute summer	3	248	48.057	0.018	1.8	0.0051	0.0000	OK
480 minute summer	4	248	47.225	0.021	1.8	0.0059	0.0000	OK
480 minute summer	5	248	49.233	0.016	0.7	0.0177	0.0000	OK
480 minute summer	6	248	47.312	0.023	1.3	0.0255	0.0000	OK
480 minute summer	7	248	47.205	0.016	1.8	0.0281	0.0000	OK
480 minute summer	8	248	46.729	0.120	3.6	0.3050	0.0000	OK
480 minute summer	8_OUT	8	46.542	0.000	3.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	0.6	0.336	0.023	0.0278	
480 minute summer	2	1.001	3	1.2	0.883	0.010	0.0194	
480 minute summer	3	1.002	4	1.8	1.084	0.013	0.0202	
480 minute summer	4	1.003	8	1.8	0.283	0.018	0.1884	
480 minute summer	5	2.000	6	0.7	0.726	0.022	0.0144	
480 minute summer	6	2.001	7	1.3	0.502	0.002	0.0384	
480 minute summer	7	2.002	8	1.8	0.128	0.001	0.2447	
480 minute summer	8	Hydro-Brake®	8_OUT	3.5				29.4

Results for 30 year 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	248	48.862	0.023	0.5	0.0066	0.0000	OK
480 minute winter	2	248	48.816	0.015	1.0	0.0042	0.0000	OK
480 minute winter	3	248	48.055	0.016	1.4	0.0046	0.0000	OK
480 minute winter	4	248	47.223	0.019	1.4	0.0053	0.0000	OK
480 minute winter	5	232	49.230	0.013	0.5	0.0151	0.0000	OK
480 minute winter	6	232	47.308	0.019	0.9	0.0215	0.0000	OK
480 minute winter	7	232	47.203	0.014	1.3	0.0244	0.0000	OK
480 minute winter	8	248	46.698	0.089	2.7	0.2265	0.0000	OK
480 minute winter	8_OUT	8	46.542	0.000	2.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.5	0.315	0.020	0.0248	
480 minute winter	2	1.001	3	1.0	0.858	0.008	0.0166	
480 minute winter	3	1.002	4	1.4	0.998	0.010	0.0170	
480 minute winter	4	1.003	8	1.4	0.425	0.014	0.1303	
480 minute winter	5	2.000	6	0.5	0.658	0.016	0.0114	
480 minute winter	6	2.001	7	0.9	0.444	0.002	0.0300	
480 minute winter	7	2.002	8	1.3	0.225	0.001	0.1608	
480 minute winter	8	Hydro-Brake®	8_OUT	2.7				31.1

Results for 30 year 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	48.862	0.023	0.5	0.0066	0.0000	OK
600 minute summer	2	315	48.816	0.015	1.0	0.0042	0.0000	OK
600 minute summer	3	315	48.056	0.017	1.5	0.0047	0.0000	OK
600 minute summer	4	315	47.223	0.019	1.5	0.0055	0.0000	OK
600 minute summer	5	315	49.230	0.013	0.5	0.0151	0.0000	OK
600 minute summer	6	315	47.309	0.020	1.0	0.0226	0.0000	OK
600 minute summer	7	315	47.203	0.014	1.4	0.0252	0.0000	OK
600 minute summer	8	315	46.705	0.096	2.9	0.2433	0.0000	OK
600 minute summer	8_OUT	15	46.542	0.000	2.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.5	0.315	0.020	0.0248	
600 minute summer	2	1.001	3	1.0	0.836	0.008	0.0171	
600 minute summer	3	1.002	4	1.5	1.020	0.011	0.0178	
600 minute summer	4	1.003	8	1.5	0.202	0.015	0.1427	
600 minute summer	5	2.000	6	0.5	0.658	0.016	0.0114	
600 minute summer	6	2.001	7	1.0	0.462	0.002	0.0321	
600 minute summer	7	2.002	8	1.4	0.273	0.001	0.1779	
600 minute summer	8	Hydro-Brake®	8_OUT	2.9				28.6

Results for 30 year 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	300	48.860	0.021	0.4	0.0060	0.0000	OK
600 minute winter	2	300	48.814	0.013	0.8	0.0037	0.0000	OK
600 minute winter	3	315	48.054	0.015	1.2	0.0043	0.0000	OK
600 minute winter	4	315	47.221	0.017	1.2	0.0049	0.0000	OK
600 minute winter	5	285	49.229	0.012	0.4	0.0136	0.0000	OK
600 minute winter	6	315	47.307	0.018	0.8	0.0205	0.0000	OK
600 minute winter	7	315	47.202	0.013	1.1	0.0227	0.0000	OK
600 minute winter	8	315	46.687	0.078	2.3	0.1984	0.0000	OK
600 minute winter	8_OUT	15	46.542	0.000	2.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.4	0.292	0.016	0.0214	
600 minute winter	2	1.001	3	0.8	0.804	0.007	0.0146	
600 minute winter	3	1.002	4	1.2	0.951	0.009	0.0153	
600 minute winter	4	1.003	8	1.2	0.199	0.012	0.1097	
600 minute winter	5	2.000	6	0.4	0.613	0.013	0.0097	
600 minute winter	6	2.001	7	0.8	0.434	0.001	0.0274	
600 minute winter	7	2.002	8	1.1	0.138	0.001	0.1330	
600 minute winter	8	Hydro-Brake®	8_OUT	2.3				34.0

Results for 30 year 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	360	48.860	0.021	0.4	0.0060	0.0000	OK
720 minute summer	2	360	48.814	0.013	0.8	0.0037	0.0000	OK
720 minute summer	3	375	48.054	0.015	1.2	0.0043	0.0000	OK
720 minute summer	4	375	47.221	0.017	1.2	0.0049	0.0000	OK
720 minute summer	5	375	49.230	0.013	0.5	0.0151	0.0000	OK
720 minute summer	6	375	47.308	0.019	0.9	0.0215	0.0000	OK
720 minute summer	7	375	47.203	0.014	1.3	0.0244	0.0000	OK
720 minute summer	8	375	46.692	0.083	2.5	0.2123	0.0000	OK
720 minute summer	8_OUT	15	46.542	0.000	2.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.4	0.292	0.016	0.0214	
720 minute summer	2	1.001	3	0.8	0.804	0.007	0.0146	
720 minute summer	3	1.002	4	1.2	0.951	0.009	0.0153	
720 minute summer	4	1.003	8	1.2	0.200	0.012	0.1192	
720 minute summer	5	2.000	6	0.5	0.658	0.016	0.0114	
720 minute summer	6	2.001	7	0.9	0.444	0.002	0.0300	
720 minute summer	7	2.002	8	1.3	0.273	0.001	0.1472	
720 minute summer	8	Hydro-Brake®	8_OUT	2.5				28.1

Results for 30 year 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	330	48.858	0.019	0.3	0.0053	0.0000	OK
720 minute winter	2	330	48.813	0.012	0.6	0.0033	0.0000	OK
720 minute winter	3	330	48.052	0.013	0.9	0.0037	0.0000	OK
720 minute winter	4	330	47.219	0.015	0.9	0.0043	0.0000	OK
720 minute winter	5	375	49.229	0.012	0.4	0.0136	0.0000	OK
720 minute winter	6	375	47.306	0.017	0.7	0.0193	0.0000	OK
720 minute winter	7	375	47.201	0.012	1.0	0.0217	0.0000	OK
720 minute winter	8	375	46.677	0.068	1.9	0.1731	0.0000	OK
720 minute winter	8_OUT	15	46.542	0.000	1.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.3	0.267	0.012	0.0177	
720 minute winter	2	1.001	3	0.6	0.713	0.005	0.0120	
720 minute winter	3	1.002	4	0.9	0.873	0.007	0.0125	
720 minute winter	4	1.003	8	0.9	0.273	0.009	0.0908	
720 minute winter	5	2.000	6	0.4	0.613	0.013	0.0097	
720 minute winter	6	2.001	7	0.7	0.414	0.001	0.0252	
720 minute winter	7	2.002	8	1.0	0.126	0.001	0.1098	
720 minute winter	8	Hydro-Brake®	8_OUT	1.9				35.1

Results for 30 year 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	495	48.860	0.021	0.4	0.0060	0.0000	OK
960 minute summer	2	495	48.814	0.013	0.8	0.0037	0.0000	OK
960 minute summer	3	495	48.053	0.014	1.1	0.0041	0.0000	OK
960 minute summer	4	495	47.221	0.017	1.1	0.0047	0.0000	OK
960 minute summer	5	495	49.229	0.012	0.4	0.0136	0.0000	OK
960 minute summer	6	495	47.306	0.017	0.7	0.0193	0.0000	OK
960 minute summer	7	495	47.201	0.012	1.0	0.0217	0.0000	OK
960 minute summer	8	495	46.682	0.073	2.1	0.1856	0.0000	OK
960 minute summer	8_OUT	15	46.542	0.000	2.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.4	0.292	0.016	0.0214	
960 minute summer	2	1.001	3	0.8	0.805	0.007	0.0142	
960 minute summer	3	1.002	4	1.1	0.929	0.008	0.0144	
960 minute summer	4	1.003	8	1.1	0.200	0.011	0.1004	
960 minute summer	5	2.000	6	0.4	0.613	0.013	0.0097	
960 minute summer	6	2.001	7	0.7	0.414	0.001	0.0252	
960 minute summer	7	2.002	8	1.0	0.273	0.001	0.1211	
960 minute summer	8	Hydro-Brake®	8_OUT	2.1				27.5

Results for 30 year 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	480	48.858	0.019	0.3	0.0053	0.0000	OK
960 minute winter	2	480	48.813	0.012	0.6	0.0033	0.0000	OK
960 minute winter	3	480	48.051	0.012	0.8	0.0035	0.0000	OK
960 minute winter	4	480	47.218	0.014	0.8	0.0041	0.0000	OK
960 minute winter	5	450	49.228	0.011	0.3	0.0119	0.0000	OK
960 minute winter	6	450	47.304	0.015	0.5	0.0167	0.0000	OK
960 minute winter	7	450	47.199	0.010	0.7	0.0184	0.0000	OK
960 minute winter	8	510	46.667	0.058	1.5	0.1487	0.0000	OK
960 minute winter	8_OUT	15	46.542	0.000	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.3	0.267	0.012	0.0177	
960 minute winter	2	1.001	3	0.6	0.746	0.005	0.0115	
960 minute winter	3	1.002	4	0.8	0.839	0.006	0.0116	
960 minute winter	4	1.003	8	0.8	0.193	0.008	0.0745	
960 minute winter	5	2.000	6	0.3	0.561	0.010	0.0080	
960 minute winter	6	2.001	7	0.5	0.378	0.001	0.0199	
960 minute winter	7	2.002	8	0.7	0.273	0.000	0.0878	
960 minute winter	8	Hydro-Brake®	8_OUT	1.5				31.5

Results for 30 year 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	48.858	0.019	0.3	0.0053	0.0000	OK
1440 minute summer	2	750	48.813	0.012	0.6	0.0033	0.0000	OK
1440 minute summer	3	750	48.051	0.012	0.8	0.0035	0.0000	OK
1440 minute summer	4	750	47.218	0.014	0.8	0.0041	0.0000	OK
1440 minute summer	5	750	49.228	0.011	0.3	0.0119	0.0000	OK
1440 minute summer	6	750	47.304	0.015	0.5	0.0167	0.0000	OK
1440 minute summer	7	750	47.199	0.010	0.7	0.0184	0.0000	OK
1440 minute summer	8	750	46.667	0.058	1.5	0.1487	0.0000	OK
1440 minute summer	8_OUT	30	46.542	0.000	1.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.3	0.267	0.012	0.0177	
1440 minute summer	2	1.001	3	0.6	0.746	0.005	0.0115	
1440 minute summer	3	1.002	4	0.8	0.839	0.006	0.0116	
1440 minute summer	4	1.003	8	0.8	0.194	0.008	0.0745	
1440 minute summer	5	2.000	6	0.3	0.561	0.010	0.0080	
1440 minute summer	6	2.001	7	0.5	0.378	0.001	0.0199	
1440 minute summer	7	2.002	8	0.7	0.119	0.000	0.0878	
1440 minute summer	8	Hydro-Brake®	8_OUT	1.5				26.3

Results for 30 year 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	660	48.855	0.016	0.2	0.0045	0.0000	OK
1440 minute winter	2	660	48.811	0.010	0.4	0.0027	0.0000	OK
1440 minute winter	3	690	48.050	0.011	0.6	0.0031	0.0000	OK
1440 minute winter	4	690	47.217	0.013	0.6	0.0036	0.0000	OK
1440 minute winter	5	630	49.226	0.009	0.2	0.0098	0.0000	OK
1440 minute winter	6	810	47.303	0.014	0.4	0.0153	0.0000	OK
1440 minute winter	7	720	47.199	0.010	0.6	0.0171	0.0000	OK
1440 minute winter	8	720	46.660	0.051	1.2	0.1302	0.0000	OK
1440 minute winter	8_OUT	30	46.542	0.000	1.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.2	0.227	0.008	0.0136	
1440 minute winter	2	1.001	3	0.4	0.680	0.003	0.0090	
1440 minute winter	3	1.002	4	0.6	0.770	0.004	0.0095	
1440 minute winter	4	1.003	8	0.6	0.188	0.006	0.0616	
1440 minute winter	5	2.000	6	0.2	0.495	0.006	0.0060	
1440 minute winter	6	2.001	7	0.4	0.360	0.001	0.0173	
1440 minute winter	7	2.002	8	0.6	0.119	0.000	0.0724	
1440 minute winter	8	Hydro-Brake®	8_OUT	1.2				32.5

Results for 100 year +40% CC 15 minute summer. 1455 minute analysis at 1 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	48.917	0.078	7.0	0.0220	0.0000	OK
15 minute summer	2	10	48.853	0.052	13.9	0.0147	0.0000	OK
15 minute summer	3	10	48.097	0.058	20.4	0.0165	0.0000	OK
15 minute summer	4	18	47.741	0.537	20.3	0.1520	0.0000	SURCHARGED
15 minute summer	5	10	49.268	0.051	7.5	0.0582	0.0000	OK
15 minute summer	6	18	47.742	0.453	16.2	0.5120	0.0000	OK
15 minute summer	7	18	47.742	0.553	24.1	0.9772	0.0000	OK
15 minute summer	8	17	47.742	1.133	34.8	2.8847	0.0000	SURCHARGED
15 minute summer	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	6.9	0.731	0.270	0.1465	
15 minute summer	2	1.001	3	13.9	1.839	0.115	0.1075	
15 minute summer	3	1.002	4	20.3	2.143	0.148	0.2895	
15 minute summer	4	1.003	8	18.3	0.801	0.182	0.6419	
15 minute summer	5	2.000	6	7.4	1.429	0.236	0.0778	
15 minute summer	6	2.001	7	17.2	0.983	0.030	3.6762	
15 minute summer	7	2.002	8	16.6	0.740	0.011	3.2348	
15 minute summer	8	Hydro-Brake®	8_OUT	4.5				17.5

Results for 100 year +40% CC 15 minute winter. 1455 minute analysis at 1 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	1	10	48.919	0.080	7.4	0.0226	0.0000	OK
15 minute winter	2	10	48.855	0.054	14.7	0.0152	0.0000	OK
15 minute winter	3	10	48.099	0.060	21.4	0.0169	0.0000	OK
15 minute winter	4	18	47.946	0.742	21.2	0.2100	0.0000	SURCHARGED
15 minute winter	5	10	49.270	0.053	7.9	0.0598	0.0000	OK
15 minute winter	6	17	47.946	0.657	22.6	0.7432	0.0000	SURCHARGED
15 minute winter	7	18	47.945	0.756	20.1	1.3361	0.0000	SURCHARGED
15 minute winter	8	18	47.946	1.337	30.3	3.4039	0.0000	SURCHARGED
15 minute winter	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	1	1.000	2	7.3	0.741	0.284	0.1520	
15 minute winter	2	1.001	3	14.6	1.864	0.120	0.1114	
15 minute winter	3	1.002	4	21.2	2.045	0.155	0.2921	
15 minute winter	4	1.003	8	20.2	0.809	0.202	0.6419	
15 minute winter	5	2.000	6	7.8	1.447	0.247	0.0806	
15 minute winter	6	2.001	7	13.8	0.928	0.024	4.1440	
15 minute winter	7	2.002	8	15.1	0.752	0.010	3.2937	
15 minute winter	8	Hydro-Brake®	8_OUT	4.5				19.6

Results for 100 year +40% CC 30 minute summer. 1470 minute analysis at 1 minute timestep. Mass balance: 99.80%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	1	18	48.913	0.074	6.3	0.0209	0.0000	OK
30 minute summer	2	18	48.851	0.050	12.6	0.0140	0.0000	OK
30 minute summer	3	18	48.095	0.056	18.5	0.0157	0.0000	OK
30 minute summer	4	30	47.995	0.791	18.5	0.2239	0.0000	SURCHARGED
30 minute summer	5	18	49.266	0.049	6.8	0.0554	0.0000	OK
30 minute summer	6	30	47.996	0.707	14.6	0.7997	0.0000	SURCHARGED
30 minute summer	7	30	47.995	0.806	19.6	1.4248	0.0000	SURCHARGED
30 minute summer	8	30	47.993	1.384	23.8	3.5226	0.0000	SURCHARGED
30 minute summer	8_OUT	1	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	1	1.000	2	6.3	0.714	0.246	0.1366	
30 minute summer	2	1.001	3	12.6	1.792	0.104	0.1002	
30 minute summer	3	1.002	4	18.5	1.945	0.135	0.2873	
30 minute summer	4	1.003	8	16.2	0.712	0.162	0.6419	
30 minute summer	5	2.000	6	6.8	1.396	0.215	0.0728	
30 minute summer	6	2.001	7	11.2	0.865	0.020	4.1440	
30 minute summer	7	2.002	8	11.8	0.748	0.008	3.2937	
30 minute summer	8	Hydro-Brake®	8_OUT	4.5				23.1

Results for 100 year +40% CC 30 minute winter. 1470 minute analysis at 1 minute timestep. Mass balance: 99.81%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	1	18	48.909	0.070	5.7	0.0199	0.0000	OK
30 minute winter	2	18	48.848	0.047	11.4	0.0133	0.0000	OK
30 minute winter	3	31	48.250	0.211	16.7	0.0598	0.0000	OK
30 minute winter	4	31	48.250	1.046	16.7	0.2961	0.0000	SURCHARGED
30 minute winter	5	18	49.263	0.046	6.1	0.0522	0.0000	OK
30 minute winter	6	31	48.252	0.963	14.0	1.0893	0.0000	SURCHARGED
30 minute winter	7	31	48.253	1.064	15.5	1.8805	0.0000	SURCHARGED
30 minute winter	8	30	48.251	1.642	22.0	4.1798	0.0000	FLOOD RISK
30 minute winter	8_OUT	1	46.542	0.000	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	1	1.000	2	5.7	0.693	0.222	0.1274	
30 minute winter	2	1.001	3	11.4	1.745	0.094	0.2877	
30 minute winter	3	1.002	4	16.7	1.875	0.122	0.4760	
30 minute winter	4	1.003	8	14.7	0.645	0.147	0.6419	
30 minute winter	5	2.000	6	6.1	1.356	0.193	0.0672	
30 minute winter	6	2.001	7	9.3	0.849	0.016	4.1440	
30 minute winter	7	2.002	8	10.9	0.761	0.007	3.2937	
30 minute winter	8	Hydro-Brake®	8_OUT	4.9				25.8

Results for 100 year +40% CC 60 minute summer. 1500 minute analysis at 1 minute timestep. Mass balance: 99.88%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	1	33	48.903	0.064	4.7	0.0181	0.0000	OK
60 minute summer	2	33	48.844	0.043	9.4	0.0121	0.0000	OK
60 minute summer	3	33	48.087	0.048	13.8	0.0136	0.0000	OK
60 minute summer	4	47	48.042	0.838	13.8	0.2372	0.0000	SURCHARGED
60 minute summer	5	33	49.259	0.042	5.1	0.0475	0.0000	OK
60 minute summer	6	47	48.043	0.754	9.5	0.8527	0.0000	SURCHARGED
60 minute summer	7	47	48.041	0.852	15.3	1.5060	0.0000	SURCHARGED
60 minute summer	8	47	48.041	1.432	18.7	3.6443	0.0000	SURCHARGED
60 minute summer	8_OUT	1	46.542	0.000	4.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	1	1.000	2	4.7	0.654	0.183	0.1113	
60 minute summer	2	1.001	3	9.4	1.652	0.078	0.0812	
60 minute summer	3	1.002	4	13.8	1.791	0.101	0.2786	
60 minute summer	4	1.003	8	11.2	0.635	0.112	0.6419	
60 minute summer	5	2.000	6	5.1	1.291	0.162	0.0590	
60 minute summer	6	2.001	7	8.8	0.813	0.016	4.1440	
60 minute summer	7	2.002	8	9.3	0.654	0.006	3.2937	
60 minute summer	8	Hydro-Brake®	8_OUT	4.6				29.1

Results for 100 year +40% CC 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	1	32	48.897	0.058	3.8	0.0164	0.0000	OK
60 minute winter	2	34	48.839	0.038	7.6	0.0108	0.0000	OK
60 minute winter	3	49	48.316	0.277	11.2	0.0783	0.0000	SURCHARGED
60 minute winter	4	50	48.315	1.111	11.2	0.3145	0.0000	SURCHARGED
60 minute winter	5	33	49.254	0.037	4.1	0.0424	0.0000	OK
60 minute winter	6	49	48.318	1.029	7.7	1.1642	0.0000	SURCHARGED
60 minute winter	7	50	48.317	1.128	9.7	1.9938	0.0000	SURCHARGED
60 minute winter	8	49	48.316	1.707	15.0	4.3438	0.0000	FLOOD RISK
60 minute winter	8_OUT	1	46.542	0.000	4.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	1	1.000	2	3.8	0.614	0.148	0.0960	
60 minute winter	2	1.001	3	7.6	1.557	0.063	0.2996	
60 minute winter	3	1.002	4	11.2	1.718	0.082	0.4822	
60 minute winter	4	1.003	8	9.6	0.632	0.095	0.6419	
60 minute winter	5	2.000	6	4.1	1.215	0.130	0.0504	
60 minute winter	6	2.001	7	6.3	0.755	0.011	4.1440	
60 minute winter	7	2.002	8	7.4	0.650	0.005	3.2937	
60 minute winter	8	Hydro-Brake®	8_OUT	4.9				32.6

Results for 100 year +40% CC 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	1	64	48.891	0.052	3.1	0.0149	0.0000	OK
120 minute summer	2	64	48.836	0.035	6.2	0.0098	0.0000	OK
120 minute summer	3	64	48.078	0.039	9.1	0.0111	0.0000	OK
120 minute summer	4	82	47.892	0.688	9.1	0.1946	0.0000	SURCHARGED
120 minute summer	5	64	49.251	0.034	3.3	0.0379	0.0000	OK
120 minute summer	6	82	47.893	0.604	6.2	0.6835	0.0000	SURCHARGED
120 minute summer	7	84	47.891	0.702	9.2	1.2410	0.0000	SURCHARGED
120 minute summer	8	82	47.891	1.282	11.5	3.2633	0.0000	SURCHARGED
120 minute summer	8_OUT	2	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	1	1.000	2	3.1	0.577	0.121	0.0833	
120 minute summer	2	1.001	3	6.2	1.466	0.051	0.0603	
120 minute summer	3	1.002	4	9.1	1.620	0.066	0.2691	
120 minute summer	4	1.003	8	7.0	0.547	0.070	0.6419	
120 minute summer	5	2.000	6	3.3	1.144	0.105	0.0431	
120 minute summer	6	2.001	7	6.7	0.710	0.012	4.1435	
120 minute summer	7	2.002	8	5.7	0.623	0.004	3.2937	
120 minute summer	8	Hydro-Brake®	8_OUT	4.5				35.6

Results for 100 year +40% CC 120 minute winter. 1560 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	1	64	48.885	0.046	2.4	0.0132	0.0000	OK
120 minute winter	2	64	48.832	0.031	4.8	0.0087	0.0000	OK
120 minute winter	3	88	48.130	0.091	7.0	0.0257	0.0000	OK
120 minute winter	4	88	48.130	0.926	7.0	0.2620	0.0000	SURCHARGED
120 minute winter	5	64	49.246	0.029	2.5	0.0329	0.0000	OK
120 minute winter	6	88	48.136	0.847	4.7	0.9581	0.0000	SURCHARGED
120 minute winter	7	88	48.131	0.942	6.0	1.6642	0.0000	SURCHARGED
120 minute winter	8	90	48.127	1.518	10.3	3.8627	0.0000	FLOOD RISK
120 minute winter	8_OUT	2	46.542	0.000	4.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	1	1.000	2	2.4	0.533	0.094	0.0699	
120 minute winter	2	1.001	3	4.8	1.362	0.040	0.1176	
120 minute winter	3	1.002	4	7.0	1.534	0.051	0.3319	
120 minute winter	4	1.003	8	6.3	0.551	0.063	0.6419	
120 minute winter	5	2.000	6	2.5	1.057	0.079	0.0354	
120 minute winter	6	2.001	7	4.2	0.668	0.007	4.1440	
120 minute winter	7	2.002	8	5.1	0.511	0.003	3.2937	
120 minute winter	8	Hydro-Brake®	8_OUT	4.7				39.8

Results for 100 year +40% CC 180 minute summer. 1620 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	1	96	48.885	0.046	2.3	0.0129	0.0000	OK
180 minute summer	2	96	48.831	0.030	4.6	0.0085	0.0000	OK
180 minute summer	3	96	48.073	0.034	6.7	0.0096	0.0000	OK
180 minute summer	4	120	47.738	0.534	6.7	0.1511	0.0000	SURCHARGED
180 minute summer	5	96	49.246	0.029	2.4	0.0323	0.0000	OK
180 minute summer	6	120	47.738	0.449	4.5	0.5074	0.0000	OK
180 minute summer	7	120	47.738	0.549	6.3	0.9695	0.0000	OK
180 minute summer	8	120	47.738	1.129	10.9	2.8724	0.0000	SURCHARGED
180 minute summer	8_OUT	4	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	1	1.000	2	2.3	0.526	0.090	0.0679	
180 minute summer	2	1.001	3	4.6	1.345	0.038	0.0487	
180 minute summer	3	1.002	4	6.7	1.518	0.049	0.2636	
180 minute summer	4	1.003	8	5.7	0.383	0.057	0.6419	
180 minute summer	5	2.000	6	2.4	1.044	0.076	0.0343	
180 minute summer	6	2.001	7	4.3	0.683	0.008	3.6499	
180 minute summer	7	2.002	8	5.5	0.308	0.004	3.2261	
180 minute summer	8	Hydro-Brake®	8_OUT	4.5				39.2

Results for 100 year +40% CC 180 minute winter. 1620 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	1	96	48.880	0.041	1.8	0.0115	0.0000	OK
180 minute winter	2	96	48.828	0.027	3.6	0.0075	0.0000	OK
180 minute winter	3	96	48.069	0.030	5.2	0.0085	0.0000	OK
180 minute winter	4	128	47.829	0.625	5.2	0.1769	0.0000	SURCHARGED
180 minute winter	5	96	49.242	0.025	1.9	0.0287	0.0000	OK
180 minute winter	6	128	47.830	0.541	3.5	0.6118	0.0000	OK
180 minute winter	7	128	47.828	0.639	4.8	1.1295	0.0000	SURCHARGED
180 minute winter	8	128	47.828	1.219	8.0	3.1035	0.0000	SURCHARGED
180 minute winter	8_OUT	4	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	1	1.000	2	1.8	0.487	0.070	0.0575	
180 minute winter	2	1.001	3	3.6	1.253	0.030	0.0409	
180 minute winter	3	1.002	4	5.2	1.442	0.038	0.2600	
180 minute winter	4	1.003	8	4.8	0.425	0.048	0.6419	
180 minute winter	5	2.000	6	1.9	0.976	0.060	0.0291	
180 minute winter	6	2.001	7	3.4	0.628	0.006	4.0386	
180 minute winter	7	2.002	8	4.0	0.474	0.003	3.2937	
180 minute winter	8	Hydro-Brake®	8_OUT	4.5				44.0

Results for 100 year +40% CC 240 minute summer. 1680 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	1	124	48.881	0.042	1.9	0.0118	0.0000	OK
240 minute summer	2	124	48.828	0.027	3.8	0.0077	0.0000	OK
240 minute summer	3	124	48.070	0.031	5.6	0.0087	0.0000	OK
240 minute summer	4	152	47.632	0.428	5.6	0.1210	0.0000	SURCHARGED
240 minute summer	5	124	49.244	0.027	2.1	0.0301	0.0000	OK
240 minute summer	6	152	47.631	0.342	3.9	0.3873	0.0000	OK
240 minute summer	7	152	47.631	0.442	5.1	0.7818	0.0000	OK
240 minute summer	8	152	47.631	1.022	8.8	2.6021	0.0000	SURCHARGED
240 minute summer	8_OUT	4	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	1	1.000	2	1.9	0.494	0.074	0.0595	
240 minute summer	2	1.001	3	3.8	1.264	0.031	0.0427	
240 minute summer	3	1.002	4	5.6	1.492	0.041	0.2586	
240 minute summer	4	1.003	8	5.0	0.418	0.050	0.6419	
240 minute summer	5	2.000	6	2.1	1.002	0.066	0.0311	
240 minute summer	6	2.001	7	3.6	0.644	0.006	2.8609	
240 minute summer	7	2.002	8	4.3	0.290	0.003	2.9492	
240 minute summer	8	Hydro-Brake®	8_OUT	4.5				42.5

Results for 100 year +40% CC 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	1	120	48.875	0.036	1.4	0.0102	0.0000	OK
240 minute winter	2	120	48.825	0.024	2.8	0.0067	0.0000	OK
240 minute winter	3	120	48.066	0.027	4.1	0.0076	0.0000	OK
240 minute winter	4	164	47.647	0.443	4.1	0.1254	0.0000	SURCHARGED
240 minute winter	5	124	49.240	0.023	1.5	0.0256	0.0000	OK
240 minute winter	6	164	47.647	0.358	2.8	0.4048	0.0000	OK
240 minute winter	7	164	47.647	0.458	4.1	0.8092	0.0000	OK
240 minute winter	8	164	47.647	1.038	7.4	2.6415	0.0000	SURCHARGED
240 minute winter	8_OUT	4	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	1	1.000	2	1.4	0.450	0.055	0.0484	
240 minute winter	2	1.001	3	2.8	1.158	0.023	0.0346	
240 minute winter	3	1.002	4	4.1	1.385	0.030	0.2571	
240 minute winter	4	1.003	8	4.1	0.425	0.040	0.6419	
240 minute winter	5	2.000	6	1.5	0.912	0.048	0.0246	
240 minute winter	6	2.001	7	2.9	0.617	0.005	2.9873	
240 minute winter	7	2.002	8	3.7	0.474	0.002	2.9962	
240 minute winter	8	Hydro-Brake®	8_OUT	4.5				47.4

Results for 100 year +40% CC 360 minute summer. 1800 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	1	184	48.875	0.036	1.4	0.0102	0.0000	OK
360 minute summer	2	184	48.825	0.024	2.8	0.0067	0.0000	OK
360 minute summer	3	184	48.066	0.027	4.1	0.0075	0.0000	OK
360 minute summer	4	216	47.431	0.227	4.1	0.0641	0.0000	SURCHARGED
360 minute summer	5	184	49.240	0.023	1.5	0.0255	0.0000	OK
360 minute summer	6	216	47.432	0.143	2.8	0.1620	0.0000	OK
360 minute summer	7	216	47.431	0.242	4.1	0.4278	0.0000	OK
360 minute summer	8	216	47.433	0.824	8.2	2.0965	0.0000	SURCHARGED
360 minute summer	8_OUT	8	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	1	1.000	2	1.4	0.448	0.054	0.0482	
360 minute summer	2	1.001	3	2.8	1.155	0.023	0.0344	
360 minute summer	3	1.002	4	4.1	1.385	0.030	0.2507	
360 minute summer	4	1.003	8	4.1	0.201	0.040	0.6418	
360 minute summer	5	2.000	6	1.5	0.910	0.047	0.0245	
360 minute summer	6	2.001	7	2.9	0.608	0.005	1.1612	
360 minute summer	7	2.002	8	4.2	0.132	0.003	2.2686	
360 minute summer	8	Hydro-Brake®	8_OUT	4.5				45.1

Results for 100 year +40% CC 360 minute winter. 1800 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	1	176	48.870	0.031	1.0	0.0088	0.0000	OK
360 minute winter	2	176	48.821	0.020	2.0	0.0057	0.0000	OK
360 minute winter	3	184	48.062	0.023	3.0	0.0065	0.0000	OK
360 minute winter	4	224	47.326	0.122	3.0	0.0344	0.0000	OK
360 minute winter	5	184	49.236	0.019	1.1	0.0220	0.0000	OK
360 minute winter	6	224	47.326	0.037	2.1	0.0414	0.0000	OK
360 minute winter	7	224	47.326	0.137	3.0	0.2414	0.0000	OK
360 minute winter	8	224	47.326	0.717	6.0	1.8238	0.0000	SURCHARGED
360 minute winter	8_OUT	8	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	1	1.000	2	1.0	0.402	0.039	0.0387	
360 minute winter	2	1.001	3	2.0	1.048	0.017	0.0275	
360 minute winter	3	1.002	4	3.0	1.265	0.022	0.1428	
360 minute winter	4	1.003	8	3.0	0.299	0.030	0.4977	
360 minute winter	5	2.000	6	1.1	0.832	0.035	0.0198	
360 minute winter	6	2.001	7	2.1	0.579	0.004	0.4056	
360 minute winter	7	2.002	8	3.0	0.250	0.002	1.9284	
360 minute winter	8	Hydro-Brake®	8_OUT	4.5				52.4

Results for 100 year +40% CC 480 minute summer. 1920 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	1	248	48.871	0.032	1.1	0.0092	0.0000	OK
480 minute summer	2	248	48.822	0.021	2.2	0.0060	0.0000	OK
480 minute summer	3	248	48.063	0.024	3.2	0.0067	0.0000	OK
480 minute summer	4	272	47.264	0.060	3.2	0.0170	0.0000	OK
480 minute summer	5	248	49.237	0.020	1.2	0.0229	0.0000	OK
480 minute summer	6	248	47.318	0.029	2.2	0.0323	0.0000	OK
480 minute summer	7	272	47.264	0.075	3.2	0.1325	0.0000	OK
480 minute summer	8	272	47.264	0.655	6.4	1.6669	0.0000	SURCHARGED
480 minute summer	8_OUT	8	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	1	1.000	2	1.1	0.415	0.043	0.0412	
480 minute summer	2	1.001	3	2.2	1.076	0.018	0.0291	
480 minute summer	3	1.002	4	3.2	1.287	0.023	0.0616	
480 minute summer	4	1.003	8	3.2	0.202	0.032	0.3895	
480 minute summer	5	2.000	6	1.2	0.854	0.038	0.0210	
480 minute summer	6	2.001	7	2.2	0.585	0.004	0.1738	
480 minute summer	7	2.002	8	3.2	0.132	0.002	1.7651	
480 minute summer	8	Hydro-Brake®	8_OUT	4.5				48.5

Results for 100 year +40% CC 480 minute winter. 1920 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	1	232	48.867	0.028	0.8	0.0080	0.0000	OK
480 minute winter	2	232	48.819	0.018	1.6	0.0051	0.0000	OK
480 minute winter	3	240	48.060	0.021	2.4	0.0059	0.0000	OK
480 minute winter	4	240	47.228	0.024	2.4	0.0068	0.0000	OK
480 minute winter	5	240	49.235	0.018	0.9	0.0200	0.0000	OK
480 minute winter	6	240	47.314	0.025	1.7	0.0288	0.0000	OK
480 minute winter	7	240	47.207	0.018	2.4	0.0318	0.0000	OK
480 minute winter	8	264	46.945	0.336	4.8	0.8558	0.0000	SURCHARGED
480 minute winter	8_OUT	8	46.542	0.000	4.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	1	1.000	2	0.8	0.372	0.031	0.0335	
480 minute winter	2	1.001	3	1.6	0.984	0.013	0.0236	
480 minute winter	3	1.002	4	2.4	1.178	0.017	0.0247	
480 minute winter	4	1.003	8	2.4	0.299	0.024	0.3392	
480 minute winter	5	2.000	6	0.9	0.783	0.029	0.0172	
480 minute winter	6	2.001	7	1.7	0.543	0.003	0.0465	
480 minute winter	7	2.002	8	2.4	0.250	0.002	0.9630	
480 minute winter	8	Hydro-Brake®	8_OUT	4.4				54.0

Results for 100 year +40% CC 600 minute summer. 2040 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	1	315	48.869	0.030	0.9	0.0084	0.0000	OK
600 minute summer	2	315	48.820	0.019	1.8	0.0054	0.0000	OK
600 minute summer	3	315	48.061	0.022	2.6	0.0061	0.0000	OK
600 minute summer	4	315	47.229	0.025	2.6	0.0071	0.0000	OK
600 minute summer	5	315	49.236	0.019	1.0	0.0210	0.0000	OK
600 minute summer	6	315	47.315	0.026	1.8	0.0295	0.0000	OK
600 minute summer	7	315	47.208	0.019	2.6	0.0330	0.0000	OK
600 minute summer	8	330	46.989	0.380	5.2	0.9660	0.0000	SURCHARGED
600 minute summer	8_OUT	15	46.542	0.000	4.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	1	1.000	2	0.9	0.388	0.035	0.0361	
600 minute summer	2	1.001	3	1.8	1.019	0.015	0.0252	
600 minute summer	3	1.002	4	2.6	1.207	0.019	0.0261	
600 minute summer	4	1.003	8	2.6	0.203	0.026	0.3403	
600 minute summer	5	2.000	6	1.0	0.808	0.032	0.0185	
600 minute summer	6	2.001	7	1.8	0.550	0.003	0.0486	
600 minute summer	7	2.002	8	2.6	0.128	0.002	1.1111	
600 minute summer	8	Hydro-Brake®	8_OUT	4.5				51.4

Results for 100 year +40% CC 600 minute winter. 2040 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	1	300	48.866	0.027	0.7	0.0076	0.0000	OK
600 minute winter	2	300	48.818	0.017	1.4	0.0048	0.0000	OK
600 minute winter	3	300	48.058	0.019	2.0	0.0054	0.0000	OK
600 minute winter	4	300	47.226	0.022	2.0	0.0062	0.0000	OK
600 minute winter	5	300	49.233	0.016	0.7	0.0177	0.0000	OK
600 minute winter	6	300	47.311	0.022	1.3	0.0254	0.0000	OK
600 minute winter	7	300	47.205	0.016	1.9	0.0287	0.0000	OK
600 minute winter	8	330	46.771	0.162	3.9	0.4118	0.0000	SURCHARGED
600 minute winter	8_OUT	15	46.542	0.000	3.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	1	1.000	2	0.7	0.354	0.027	0.0308	
600 minute winter	2	1.001	3	1.4	0.944	0.012	0.0211	
600 minute winter	3	1.002	4	2.0	1.118	0.015	0.0218	
600 minute winter	4	1.003	8	2.0	0.200	0.020	0.2628	
600 minute winter	5	2.000	6	0.7	0.726	0.022	0.0144	
600 minute winter	6	2.001	7	1.3	0.496	0.002	0.0389	
600 minute winter	7	2.002	8	1.9	0.138	0.001	0.3693	
600 minute winter	8	Hydro-Brake®	8_OUT	3.9				56.2

Results for 100 year +40% CC 720 minute summer. 2160 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	1	375	48.867	0.028	0.8	0.0080	0.0000	OK
720 minute summer	2	375	48.819	0.018	1.6	0.0051	0.0000	OK
720 minute summer	3	375	48.059	0.020	2.3	0.0058	0.0000	OK
720 minute summer	4	375	47.228	0.024	2.3	0.0067	0.0000	OK
720 minute summer	5	375	49.235	0.018	0.9	0.0200	0.0000	OK
720 minute summer	6	375	47.314	0.025	1.6	0.0280	0.0000	OK
720 minute summer	7	375	47.207	0.018	2.3	0.0312	0.0000	OK
720 minute summer	8	390	46.850	0.241	4.6	0.6141	0.0000	SURCHARGED
720 minute summer	8_OUT	15	46.542	0.000	4.3	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	1	1.000	2	0.8	0.372	0.031	0.0335	
720 minute summer	2	1.001	3	1.6	0.984	0.013	0.0232	
720 minute summer	3	1.002	4	2.3	1.163	0.017	0.0240	
720 minute summer	4	1.003	8	2.3	0.201	0.023	0.3387	
720 minute summer	5	2.000	6	0.9	0.783	0.029	0.0172	
720 minute summer	6	2.001	7	1.6	0.531	0.003	0.0447	
720 minute summer	7	2.002	8	2.3	0.124	0.001	0.6312	
720 minute summer	8	Hydro-Brake®	8_OUT	4.3				55.6

Results for 100 year +40% CC 720 minute winter. 2160 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	1	360	48.864	0.025	0.6	0.0071	0.0000	OK
720 minute winter	2	360	48.817	0.016	1.2	0.0045	0.0000	OK
720 minute winter	3	375	48.057	0.018	1.8	0.0051	0.0000	OK
720 minute winter	4	375	47.225	0.021	1.8	0.0059	0.0000	OK
720 minute winter	5	345	49.232	0.015	0.6	0.0164	0.0000	OK
720 minute winter	6	375	47.311	0.022	1.2	0.0245	0.0000	OK
720 minute winter	7	375	47.204	0.015	1.7	0.0274	0.0000	OK
720 minute winter	8	375	46.727	0.118	3.5	0.2997	0.0000	OK
720 minute winter	8_OUT	15	46.542	0.000	3.5	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	1	1.000	2	0.6	0.336	0.023	0.0278	
720 minute winter	2	1.001	3	1.2	0.902	0.010	0.0194	
720 minute winter	3	1.002	4	1.8	1.084	0.013	0.0202	
720 minute winter	4	1.003	8	1.8	0.200	0.018	0.1846	
720 minute winter	5	2.000	6	0.6	0.694	0.019	0.0129	
720 minute winter	6	2.001	7	1.2	0.488	0.002	0.0365	
720 minute winter	7	2.002	8	1.7	0.138	0.001	0.2385	
720 minute winter	8	Hydro-Brake®	8_OUT	3.5				60.0

Results for 100 year +40% CC 960 minute summer. 2400 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	1	480	48.864	0.025	0.6	0.0071	0.0000	OK
960 minute summer	2	480	48.817	0.016	1.2	0.0045	0.0000	OK
960 minute summer	3	495	48.057	0.018	1.8	0.0051	0.0000	OK
960 minute summer	4	495	47.225	0.021	1.8	0.0059	0.0000	OK
960 minute summer	5	495	49.233	0.016	0.7	0.0177	0.0000	OK
960 minute summer	6	495	47.311	0.022	1.3	0.0254	0.0000	OK
960 minute summer	7	495	47.205	0.016	1.9	0.0287	0.0000	OK
960 minute summer	8	495	46.741	0.132	3.7	0.3349	0.0000	OK
960 minute summer	8_OUT	15	46.542	0.000	3.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	1	1.000	2	0.6	0.336	0.023	0.0278	
960 minute summer	2	1.001	3	1.2	0.902	0.010	0.0194	
960 minute summer	3	1.002	4	1.8	1.084	0.013	0.0202	
960 minute summer	4	1.003	8	1.8	0.200	0.018	0.2095	
960 minute summer	5	2.000	6	0.7	0.726	0.022	0.0144	
960 minute summer	6	2.001	7	1.3	0.496	0.002	0.0389	
960 minute summer	7	2.002	8	1.9	0.126	0.001	0.2784	
960 minute summer	8	Hydro-Brake®	8_OUT	3.7				61.9

Results for 100 year +40% CC 960 minute winter. 2400 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	1	465	48.862	0.023	0.5	0.0066	0.0000	OK
960 minute winter	2	465	48.816	0.015	1.0	0.0042	0.0000	OK
960 minute winter	3	465	48.055	0.016	1.4	0.0046	0.0000	OK
960 minute winter	4	465	47.223	0.019	1.4	0.0053	0.0000	OK
960 minute winter	5	450	49.230	0.013	0.5	0.0151	0.0000	OK
960 minute winter	6	450	47.308	0.019	0.9	0.0215	0.0000	OK
960 minute winter	7	450	47.203	0.014	1.3	0.0244	0.0000	OK
960 minute winter	8	510	46.698	0.089	2.7	0.2271	0.0000	OK
960 minute winter	8_OUT	15	46.542	0.000	2.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	1	1.000	2	0.5	0.315	0.020	0.0248	
960 minute winter	2	1.001	3	1.0	0.858	0.008	0.0166	
960 minute winter	3	1.002	4	1.4	0.998	0.010	0.0170	
960 minute winter	4	1.003	8	1.4	0.227	0.014	0.1307	
960 minute winter	5	2.000	6	0.5	0.658	0.016	0.0114	
960 minute winter	6	2.001	7	0.9	0.444	0.002	0.0300	
960 minute winter	7	2.002	8	1.3	0.126	0.001	0.1614	
960 minute winter	8	Hydro-Brake®	8_OUT	2.7				65.2

Results for 100 year +40% CC 1440 minute summer. 2880 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	1	750	48.862	0.023	0.5	0.0066	0.0000	OK
1440 minute summer	2	750	48.816	0.015	1.0	0.0042	0.0000	OK
1440 minute summer	3	750	48.055	0.016	1.4	0.0046	0.0000	OK
1440 minute summer	4	750	47.223	0.019	1.4	0.0053	0.0000	OK
1440 minute summer	5	750	49.230	0.013	0.5	0.0151	0.0000	OK
1440 minute summer	6	750	47.308	0.019	0.9	0.0215	0.0000	OK
1440 minute summer	7	750	47.203	0.014	1.3	0.0244	0.0000	OK
1440 minute summer	8	750	46.698	0.089	2.7	0.2271	0.0000	OK
1440 minute summer	8_OUT	30	46.542	0.000	2.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	1	1.000	2	0.5	0.315	0.020	0.0248	
1440 minute summer	2	1.001	3	1.0	0.858	0.008	0.0166	
1440 minute summer	3	1.002	4	1.4	0.998	0.010	0.0170	
1440 minute summer	4	1.003	8	1.4	0.199	0.014	0.1307	
1440 minute summer	5	2.000	6	0.5	0.658	0.016	0.0114	
1440 minute summer	6	2.001	7	0.9	0.444	0.002	0.0300	
1440 minute summer	7	2.002	8	1.3	0.160	0.001	0.1614	
1440 minute summer	8	Hydro-Brake®	8_OUT	2.7				59.8

Results for 100 year +40% CC 1440 minute winter. 2880 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	1	630	48.858	0.019	0.3	0.0053	0.0000	OK
1440 minute winter	2	630	48.813	0.012	0.6	0.0033	0.0000	OK
1440 minute winter	3	660	48.052	0.013	0.9	0.0037	0.0000	OK
1440 minute winter	4	660	47.219	0.015	0.9	0.0043	0.0000	OK
1440 minute winter	5	720	49.229	0.012	0.4	0.0136	0.0000	OK
1440 minute winter	6	720	47.306	0.017	0.7	0.0193	0.0000	OK
1440 minute winter	7	720	47.201	0.012	1.0	0.0217	0.0000	OK
1440 minute winter	8	720	46.677	0.068	1.9	0.1731	0.0000	OK
1440 minute winter	8_OUT	30	46.542	0.000	1.9	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	1	1.000	2	0.3	0.267	0.012	0.0177	
1440 minute winter	2	1.001	3	0.6	0.745	0.005	0.0120	
1440 minute winter	3	1.002	4	0.9	0.873	0.007	0.0125	
1440 minute winter	4	1.003	8	0.9	0.196	0.009	0.0908	
1440 minute winter	5	2.000	6	0.4	0.613	0.013	0.0097	
1440 minute winter	6	2.001	7	0.7	0.414	0.001	0.0252	
1440 minute winter	7	2.002	8	1.0	0.160	0.001	0.1098	
1440 minute winter	8	Hydro-Brake®	8_OUT	1.9				73.9