Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.900
CV	0.750	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
300	0.028	5.00	52.051	4150	359657.519	430422.519	0.510
301	0.028	5.00	48.967	4150	359595.969	430431.888	0.691
302	0.028	5.00	45.248	4150	359536.758	430448.291	0.691
303	0.028	5.00	41.046	4150	359478.613	430474.856	0.884
304	0.028	5.00	34.031	4150	359402.240	430506.818	0.884
305	0.028	5.00	32.394	4150	359391.277	430521.333	1.596
306	0.000		30.498	1200	359374.238	430534.925	1.425
307			28.927	1200	359371.450	430550.968	1.425

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	300	301	62.259	0.032	51.541	48.276	3.265	19.1	500	5.36	47.1
1.001	301	302	61.441	0.032	48.276	44.557	3.719	16.5	500	5.69	46.1
1.002	302	303	63.926	0.032	44.557	40.162	4.396	14.5	500	6.01	45.0
1.003	303	304	82.791	0.032	40.162	33.147	7.015	11.8	500	6.39	43.9
1.004	304	305	18.190	0.032	33.147	30.798	2.348	7.7	500	6.45	43.7
1.005	305	306	21.796	0.032	30.798	29.073	1.725	12.6	225	6.74	42.9
1.006	306	307	16.283	0.032	29.073	27.502	1.571	10.4	225	6.93	42.4

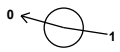
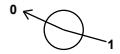
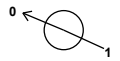
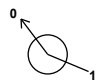
Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	2.888	2527.2	3.6	0.010	0.191	0.028	0.0	23	0.501
1.001	3.103	2715.3	7.0	0.191	0.191	0.056	0.0	32	0.645
1.002	3.308	2894.1	10.3	0.191	0.384	0.084	0.0	38	0.755
1.003	3.672	3212.6	13.3	0.384	0.384	0.112	0.0	41	0.873
1.004	4.532	3965.3	16.6	0.384	1.096	0.140	0.0	41	1.078
1.005	1.291	51.3	19.5	1.371	1.200	0.168	0.0	96	1.203
1.006	1.425	56.7	19.3	1.200	1.200	0.168	0.0	90	1.286

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	62.259	19.1	500	1:3 swale	52.051	51.541	0.010	48.967	48.276	0.191
1.001	61.441	16.5	500	1:3 swale	48.967	48.276	0.191	45.248	44.557	0.191
1.002	63.926	14.5	500	1:3 swale	45.248	44.557	0.191	41.046	40.162	0.384
1.003	82.791	11.8	500	1:3 swale	41.046	40.162	0.384	34.031	33.147	0.384
1.004	18.190	7.7	500	1:3 swale	34.031	33.147	0.384	32.394	30.798	1.096
1.005	21.796	12.6	225	Circular_Default Sewer Type	32.394	30.798	1.371	30.498	29.073	1.200
1.006	16.283	10.4	225	Circular_Default Sewer Type	30.498	29.073	1.200	28.927	27.502	1.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	300	4150	Manhole	Adoptable	301	4150	Manhole	Adoptable
1.001	301	4150	Manhole	Adoptable	302	4150	Manhole	Adoptable
1.002	302	4150	Manhole	Adoptable	303	4150	Manhole	Adoptable
1.003	303	4150	Manhole	Adoptable	304	4150	Manhole	Adoptable
1.004	304	4150	Manhole	Adoptable	305	4150	Manhole	Adoptable
1.005	305	4150	Manhole	Adoptable	306	1200	Manhole	Adoptable
1.006	306	1200	Manhole	Adoptable	307	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
300	359657.519	430422.519	52.051	0.510	4150				
						0	1.000	51.541	500
301	359595.969	430431.888	48.967	0.691	4150	1	1.000	48.276	500
									
						0	1.001	48.276	500
302	359536.758	430448.291	45.248	0.691	4150	1	1.001	44.557	500
									
						0	1.002	44.557	500
303	359478.613	430474.856	41.046	0.884	4150	1	1.002	40.162	500
									
						0	1.003	40.162	500
304	359402.240	430506.818	34.031	0.884	4150	1	1.003	33.147	500
									
						0	1.004	33.147	500
305	359391.277	430521.333	32.394	1.596	4150	1	1.004	30.798	500
									
						0	1.005	30.798	225
306	359374.238	430534.925	30.498	1.425	1200	1 	1.005	29.073	225
						0	1.006	29.073	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
307	359371.450	430550.968	28.927	1.425	1200	1	1.006	27.502	225

Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	✓	10 year (l/s)	1.7
Summer CV	0.750	Drain Down Time (mins)	240	30 year (l/s)	2.1
Winter CV	0.840	Additional Storage (m³/ha)	20.0	100 year (l/s)	2.5
Analysis Speed	Normal	Check Discharge Rate(s)	✓	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 %)
100	50	0	0

Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 30 year	1.70
Greenfield Method	IH124	Growth Factor 100 year	2.08
Positively Drained Area (ha)	0.165	Betterment (%)	0
SAAR (mm)	999	QBar	1.2
Soil Index	4	Q 10 year (l/s)	1.7
SPR	0.47	Q 30 year (l/s)	2.1
Region	10	Q 100 year (l/s)	2.5
Growth Factor 10 year	1.38		

Node 306 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	29.073	Product Number	CTL-SHE-0059-1500-0900-1500
Design Depth (m)	0.900	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.5	Min Node Diameter (mm)	1200

Node 306 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	29.073
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	145.0	0.0	0.600	232.0	0.0	0.650	240.2	0.0

Results for 100 year +50% 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	300	11	51.592	0.051	17.0	0.7480	0.0000	OK
15 minute winter	301	11	48.345	0.068	32.3	0.9788	0.0000	OK
15 minute winter	302	12	44.637	0.080	46.4	1.1421	0.0000	OK
15 minute winter	303	12	40.247	0.086	58.5	1.2120	0.0000	OK
15 minute winter	304	12	33.231	0.084	69.7	1.1937	0.0000	OK
15 minute winter	305	16	31.274	0.475	81.6	6.5946	0.0000	SURCHARGED
480 minute winter	306	480	29.649	0.576	12.0	108.1190	0.0000	SURCHARGED
15 minute summer	307	1	27.502	0.000	1.4	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	300	1.000	301	16.1	0.636	0.006	1.6091	
15 minute winter	301	1.001	302	30.4	0.884	0.011	2.1446	
15 minute winter	302	1.002	303	44.4	1.082	0.015	2.6318	
15 minute winter	303	1.003	304	56.4	1.315	0.018	3.5511	
15 minute winter	304	1.004	305	68.3	0.512	0.017	7.5203	
15 minute winter	305	1.005	306	55.1	2.004	1.073	0.8621	
480 minute winter	306	Hydro-Brake®	307	1.4				47.3

Results for 100 year +50% CC 15 minute summer. 255 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
15 minute summer	300	11	51.591	0.050	16.2	0.7310	0.0000	OK
15 minute summer	301	12	48.343	0.066	30.9	0.9519	0.0000	OK
15 minute summer	302	12	44.635	0.078	44.1	1.1113	0.0000	OK
15 minute summer	303	12	40.244	0.083	54.9	1.1726	0.0000	OK
15 minute summer	304	12	33.228	0.081	65.3	1.1512	0.0000	OK
15 minute summer	305	15	31.209	0.411	76.1	5.6968	0.0000	SURCHARGED
15 minute summer	306	36	29.307	0.234	53.1	38.1558	0.0000	SURCHARGED
15 minute summer	307	1	27.502	0.000	1.4	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)
15 minute summer	300	1.000	301	15.4	0.633	0.006	1.5488	
15 minute summer	301	1.001	302	28.9	0.874	0.011	2.0654	
15 minute summer	302	1.002	303	41.9	1.067	0.014	2.5152	
15 minute summer	303	1.003	304	52.6	1.293	0.016	3.3713	
15 minute summer	304	1.004	305	63.4	0.514	0.016	5.8192	
15 minute summer	305	1.005	306	53.1	1.975	1.036	0.8040	
15 minute summer	306	Hydro-Brake®	307	1.4				20.7

Results for 100 year +50% CC 15 minute winter. 255 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	300	11	51.592	0.051	17.0	0.7480	0.0000	OK
15 minute winter	301	11	48.345	0.068	32.3	0.9788	0.0000	OK
15 minute winter	302	12	44.637	0.080	46.4	1.1421	0.0000	OK
15 minute winter	303	12	40.247	0.086	58.5	1.2120	0.0000	OK
15 minute winter	304	12	33.231	0.084	69.7	1.1937	0.0000	OK
15 minute winter	305	16	31.274	0.475	81.6	6.5946	0.0000	SURCHARGED
15 minute winter	306	36	29.334	0.261	55.1	43.0911	0.0000	SURCHARGED
15 minute winter	307	1	27.502	0.000	1.4	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)
15 minute winter	300	1.000	301	16.1	0.636	0.006	1.6091	
15 minute winter	301	1.001	302	30.4	0.884	0.011	2.1446	
15 minute winter	302	1.002	303	44.4	1.082	0.015	2.6318	
15 minute winter	303	1.003	304	56.4	1.315	0.018	3.5511	
15 minute winter	304	1.004	305	68.3	0.512	0.017	7.5203	
15 minute winter	305	1.005	306	55.1	2.004	1.073	0.8621	
15 minute winter	306	Hydro-Brake®	307	1.4				21.0

Results for 100 year +50% CC 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	300	18	51.590	0.049	15.3	0.7130	0.0000	OK
30 minute summer	301	19	48.342	0.066	30.0	0.9461	0.0000	OK
30 minute summer	302	19	44.634	0.077	42.4	1.1010	0.0000	OK
30 minute summer	303	20	40.244	0.083	55.0	1.1733	0.0000	OK
30 minute summer	304	20	33.229	0.082	65.7	1.1622	0.0000	OK
30 minute summer	305	23	31.235	0.437	77.0	6.0610	0.0000	SURCHARGED
30 minute summer	306	49	29.387	0.314	55.5	53.0906	0.0000	SURCHARGED
30 minute summer	307	1	27.502	0.000	1.4	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)
30 minute summer	300	1.000	301	14.7	0.617	0.006	1.5174	
30 minute summer	301	1.001	302	28.5	0.859	0.010	2.0416	
30 minute summer	302	1.002	303	41.1	1.059	0.014	2.4851	
30 minute summer	303	1.003	304	53.0	1.291	0.016	3.3965	
30 minute summer	304	1.004	305	64.8	0.518	0.016	6.4881	
30 minute summer	305	1.005	306	55.5	1.920	1.081	0.8669	
30 minute summer	306	Hydro-Brake®	307	1.4				22.0

Results for 100 year +50% CC 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	300	18	51.588	0.047	13.8	0.6814	0.0000	OK
30 minute winter	301	19	48.340	0.064	27.3	0.9117	0.0000	OK
30 minute winter	302	19	44.632	0.075	39.6	1.0693	0.0000	OK
30 minute winter	303	20	40.243	0.081	51.9	1.1488	0.0000	OK
30 minute winter	304	20	33.227	0.081	63.0	1.1437	0.0000	OK
30 minute winter	305	23	31.251	0.453	74.4	6.2794	0.0000	SURCHARGED
30 minute winter	306	49	29.423	0.350	56.3	60.0186	0.0000	SURCHARGED
30 minute winter	307	1	27.502	0.000	1.4	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)
30 minute winter	300	1.000	301	13.5	0.595	0.005	1.4363	
30 minute winter	301	1.001	302	26.5	0.838	0.010	1.9468	
30 minute winter	302	1.002	303	38.8	1.035	0.013	2.4046	
30 minute winter	303	1.003	304	50.8	1.273	0.016	3.3034	
30 minute winter	304	1.004	305	62.7	0.508	0.016	6.9281	
30 minute winter	305	1.005	306	56.3	1.920	1.097	0.8669	
30 minute winter	306	Hydro-Brake®	307	1.4				22.0

Results for 100 year +50% CC 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	300	33	51.584	0.043	12.0	0.6320	0.0000	OK
60 minute summer	301	34	48.336	0.059	23.7	0.8480	0.0000	OK
60 minute summer	302	34	44.627	0.069	34.3	0.9954	0.0000	OK
60 minute summer	303	35	40.237	0.076	45.0	1.0707	0.0000	OK
60 minute summer	304	35	33.222	0.075	54.6	1.0661	0.0000	OK
60 minute summer	305	38	31.105	0.306	64.6	4.2476	0.0000	SURCHARGED
60 minute summer	306	77	29.471	0.398	54.0	69.6988	0.0000	SURCHARGED
60 minute summer	307	1	27.502	0.000	1.4	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)
60 minute summer	300	1.000	301	11.7	0.572	0.005	1.2972	
60 minute summer	301	1.001	302	22.9	0.806	0.008	1.7544	
60 minute summer	302	1.002	303	33.6	0.996	0.012	2.1678	
60 minute summer	303	1.003	304	44.0	1.225	0.014	2.9759	
60 minute summer	304	1.004	305	54.4	0.554	0.014	3.5385	
60 minute summer	305	1.005	306	54.0	1.634	1.053	0.8669	
60 minute summer	306	Hydro-Brake®	307	1.4				23.5

Results for 100 year +50% CC 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	300	34	51.580	0.039	9.7	0.5687	0.0000	OK
60 minute winter	301	34	48.330	0.054	19.3	0.7698	0.0000	OK
60 minute winter	302	35	44.621	0.064	28.5	0.9118	0.0000	OK
60 minute winter	303	35	40.231	0.070	37.7	0.9856	0.0000	OK
60 minute winter	304	35	33.216	0.070	46.5	0.9857	0.0000	OK
60 minute winter	305	39	31.010	0.211	55.5	2.9334	0.0000	OK
60 minute winter	306	77	29.516	0.443	54.3	78.9169	0.0000	SURCHARGED
60 minute winter	307	1	27.502	0.000	1.4	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)
60 minute winter	300	1.000	301	9.6	0.535	0.004	1.1310	
60 minute winter	301	1.001	302	19.0	0.761	0.007	1.5388	
60 minute winter	302	1.002	303	28.2	0.944	0.010	1.9170	
60 minute winter	303	1.003	304	37.3	1.169	0.012	2.6443	
60 minute winter	304	1.004	305	46.4	0.549	0.012	1.9695	
60 minute winter	305	1.005	306	54.3	1.579	1.057	0.8558	
60 minute winter	306	Hydro-Brake®	307	1.4				23.2

Results for 100 year +50% CC 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	300	64	51.575	0.034	7.5	0.4956	0.0000	OK
120 minute summer	301	64	48.323	0.047	14.9	0.6703	0.0000	OK
120 minute summer	302	66	44.613	0.056	22.1	0.7969	0.0000	OK
120 minute summer	303	66	40.223	0.061	28.9	0.8630	0.0000	OK
120 minute summer	304	66	33.208	0.061	35.6	0.8629	0.0000	OK
120 minute summer	305	66	30.954	0.156	42.6	2.1591	0.0000	OK
120 minute summer	306	134	29.520	0.447	42.2	79.8186	0.0000	SURCHARGED
120 minute summer	307	2	27.502	0.000	1.4	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)
120 minute summer	300	1.000	301	7.4	0.496	0.003	0.9390	
120 minute summer	301	1.001	302	14.6	0.708	0.005	1.2695	
120 minute summer	302	1.002	303	21.7	0.878	0.007	1.5838	
120 minute summer	303	1.003	304	28.7	1.088	0.009	2.1841	
120 minute summer	304	1.004	305	35.7	0.583	0.009	1.2543	
120 minute summer	305	1.005	306	42.2	1.225	0.823	0.7524	
120 minute summer	306	Hydro-Brake®	307	1.4				26.7

Results for 100 year +50% CC 120 minute winter. 360 minute analysis at 2 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
120 minute winter	300	64	51.571	0.030	5.8	0.4322	0.0000	OK
120 minute winter	301	66	48.318	0.041	11.6	0.5914	0.0000	OK
120 minute winter	302	66	44.607	0.049	17.3	0.7075	0.0000	OK
120 minute winter	303	66	40.216	0.054	22.9	0.7680	0.0000	OK
120 minute winter	304	66	33.201	0.054	28.6	0.7701	0.0000	OK
120 minute winter	305	66	30.933	0.134	34.3	1.8626	0.0000	OK
120 minute winter	306	134	29.571	0.498	34.1	90.7110	0.0000	SURCHARGED
120 minute winter	307	2	27.502	0.000	1.4	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)
120 minute winter	300	1.000	301	5.8	0.459	0.002	0.7911	
120 minute winter	301	1.001	302	11.5	0.659	0.004	1.0772	
120 minute winter	302	1.002	303	17.2	0.820	0.006	1.3435	
120 minute winter	303	1.003	304	22.9	1.021	0.007	1.8570	
120 minute winter	304	1.004	305	28.6	0.569	0.007	1.0012	
120 minute winter	305	1.005	306	34.1	1.292	0.665	0.7025	
120 minute winter	306	Hydro-Brake®	307	1.4				25.9

Results for 100 year +50% CC 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	300	96	51.570	0.029	5.5	0.4199	0.0000	OK
180 minute summer	301	96	48.317	0.040	11.0	0.5748	0.0000	OK
180 minute summer	302	96	44.605	0.048	16.4	0.6859	0.0000	OK
180 minute summer	303	96	40.214	0.052	21.7	0.7423	0.0000	OK
180 minute summer	304	96	33.199	0.052	26.9	0.7433	0.0000	OK
180 minute summer	305	96	30.926	0.128	32.1	1.7756	0.0000	OK
180 minute summer	306	192	29.546	0.473	31.6	85.3515	0.0000	SURCHARGED
180 minute summer	307	4	27.502	0.000	1.4	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)
180 minute summer	300	1.000	301	5.5	0.451	0.002	0.7627	
180 minute summer	301	1.001	302	10.9	0.649	0.004	1.0346	
180 minute summer	302	1.002	303	16.2	0.808	0.006	1.2843	
180 minute summer	303	1.003	304	21.4	1.002	0.007	1.7694	
180 minute summer	304	1.004	305	26.7	0.567	0.007	0.9323	
180 minute summer	305	1.005	306	31.6	1.120	0.616	0.6873	
180 minute summer	306	Hydro-Brake®	307	1.4				30.0

Results for 100 year +50% CC 180 minute winter. 420 minute analysis at 4 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
180 minute winter	300	96	51.566	0.025	4.3	0.3666	0.0000	OK
180 minute winter	301	96	48.312	0.035	8.6	0.5049	0.0000	OK
180 minute winter	302	96	44.600	0.042	12.9	0.6054	0.0000	OK
180 minute winter	303	96	40.208	0.046	17.1	0.6579	0.0000	OK
180 minute winter	304	96	33.193	0.047	21.3	0.6601	0.0000	OK
180 minute winter	305	96	30.910	0.112	25.5	1.5538	0.0000	OK
180 minute winter	306	192	29.601	0.528	25.4	97.2583	0.0000	SURCHARGED
180 minute winter	307	4	27.502	0.000	1.4	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)
180 minute winter	300	1.000	301	4.3	0.419	0.002	0.6438	
180 minute winter	301	1.001	302	8.6	0.604	0.003	0.8736	
180 minute winter	302	1.002	303	12.8	0.754	0.004	1.0869	
180 minute winter	303	1.003	304	17.0	0.938	0.005	1.5014	
180 minute winter	304	1.004	305	21.2	0.549	0.005	0.7620	
180 minute winter	305	1.005	306	25.4	1.196	0.495	0.6483	
180 minute winter	306	Hydro-Brake®	307	1.4				28.8

Results for 100 year +50% CC 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.82%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	300	124	51.567	0.026	4.6	0.3757	0.0000	OK
240 minute summer	301	128	48.312	0.036	9.1	0.5138	0.0000	OK
240 minute summer	302	128	44.600	0.043	13.4	0.6172	0.0000	OK
240 minute summer	303	128	40.209	0.047	17.7	0.6717	0.0000	OK
240 minute summer	304	128	33.194	0.048	22.0	0.6734	0.0000	OK
240 minute summer	305	128	30.913	0.115	26.4	1.5899	0.0000	OK
240 minute summer	306	252	29.561	0.488	26.4	88.5848	0.0000	SURCHARGED
240 minute summer	307	4	27.502	0.000	1.4	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	300	1.000	301	4.5	0.426	0.002	0.6597	
240 minute summer	301	1.001	302	8.9	0.611	0.003	0.8952	
240 minute summer	302	1.002	303	13.3	0.762	0.005	1.1167	
240 minute summer	303	1.003	304	17.7	0.949	0.006	1.5435	
240 minute summer	304	1.004	305	22.1	0.552	0.006	0.7886	
240 minute summer	305	1.005	306	26.4	1.033	0.514	0.6547	
240 minute summer	306	Hydro-Brake®	307	1.4				33.5

Results for 100 year +50% CC 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.77%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	300	124	51.563	0.022	3.5	0.3248	0.0000	OK
240 minute winter	301	128	48.308	0.031	7.0	0.4483	0.0000	OK
240 minute winter	302	128	44.595	0.038	10.4	0.5396	0.0000	OK
240 minute winter	303	128	40.203	0.042	13.8	0.5880	0.0000	OK
240 minute winter	304	128	33.188	0.042	17.2	0.5901	0.0000	OK
240 minute winter	305	128	30.898	0.099	20.6	1.3779	0.0000	OK
240 minute winter	306	248	29.618	0.545	20.6	101.1980	0.0000	SURCHARGED
240 minute winter	307	4	27.502	0.000	1.4	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 winter	300	1.000	301	3.5	0.392	0.001	0.5532	
240 minute winter	301	1.001	302	6.9	0.566	0.003	0.7499	
240 minute winter	302	1.002	303	10.3	0.708	0.004	0.9338	
240 minute winter	303	1.003	304	13.8	0.883	0.004	1.2910	
240 minute winter	304	1.004	305	17.2	0.528	0.004	0.6370	
240 minute winter	305	1.005	306	20.6	1.114	0.401	0.6173	
240 minute winter	306	Hydro-Brake®	307	1.4				32.0

Results for 100 year +50% CC 360 minute summer. 600 minute analysis at 8 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
360 minute summer	300	184	51.563	0.022	3.5	0.3216	0.0000	OK
360 minute summer	301	184	48.307	0.031	6.9	0.4410	0.0000	OK
360 minute summer	302	184	44.594	0.037	10.2	0.5276	0.0000	OK
360 minute summer	303	184	40.202	0.040	13.4	0.5716	0.0000	OK
360 minute summer	304	184	33.187	0.040	16.5	0.5733	0.0000	OK
360 minute summer	305	184	30.894	0.096	19.8	1.3318	0.0000	OK
360 minute summer	306	368	29.573	0.500	19.4	91.1695	0.0000	SURCHARGED
360 minute summer	307	8	27.502	0.000	1.4	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)
360 minute summer	300	1.000	301	3.4	0.391	0.001	0.5441	
360 minute summer	301	1.001	302	6.7	0.563	0.002	0.7310	
360 minute summer	302	1.002	303	9.9	0.701	0.003	0.9028	
360 minute summer	303	1.003	304	13.0	0.869	0.004	1.2429	
360 minute summer	304	1.004	305	16.3	0.524	0.004	0.6064	
360 minute summer	305	1.005	306	19.4	0.950	0.377	0.6093	
360 minute summer	306	Hydro-Brake®	307	1.4				40.6

Results for 100 year +50% CC 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	300	192	51.559	0.018	2.5	0.2702	0.0000	OK
360 minute winter	301	192	48.303	0.026	5.0	0.3758	0.0000	OK
360 minute winter	302	192	44.589	0.032	7.5	0.4536	0.0000	OK
360 minute winter	303	192	40.197	0.035	10.0	0.4952	0.0000	OK
360 minute winter	304	192	33.182	0.035	12.5	0.4975	0.0000	OK
360 minute winter	305	192	30.882	0.083	15.0	1.1581	0.0000	OK
360 minute winter	306	368	29.641	0.568	15.0	106.3930	0.0000	SURCHARGED
360 minute winter	307	8	27.502	0.000	1.4	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)
360 minute winter	300	1.000	301	2.5	0.353	0.001	0.4439	
360 minute winter	301	1.001	302	5.0	0.513	0.002	0.5999	
360 minute winter	302	1.002	303	7.5	0.644	0.003	0.7456	
360 minute winter	303	1.003	304	10.0	0.803	0.003	1.0308	
360 minute winter	304	1.004	305	12.5	0.493	0.003	0.4934	
360 minute winter	305	1.005	306	15.0	1.010	0.292	0.5793	
360 minute winter	306	Hydro-Brake®	307	1.4				39.4

Results for 100 year +50% CC 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	300	248	51.560	0.019	2.7	0.2823	0.0000	OK
480 minute summer	301	248	48.304	0.027	5.4	0.3919	0.0000	OK
480 minute summer	302	248	44.590	0.033	8.1	0.4725	0.0000	OK
480 minute summer	303	248	40.198	0.036	10.8	0.5152	0.0000	OK
480 minute summer	304	248	33.183	0.037	13.5	0.5172	0.0000	OK
480 minute summer	305	248	30.885	0.087	16.1	1.2029	0.0000	OK
480 minute summer	306	488	29.577	0.504	16.1	92.1219	0.0000	SURCHARGED
480 minute summer	307	8	27.502	0.000	1.4	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 summer	300	1.000	301	2.7	0.362	0.001	0.4676	
480 minute summer	301	1.001	302	5.4	0.526	0.002	0.6321	
480 minute summer	302	1.002	303	8.1	0.658	0.003	0.7852	
480 minute summer	303	1.003	304	10.8	0.821	0.003	1.0848	
480 minute summer	304	1.004	305	13.4	0.501	0.003	0.5216	
480 minute summer	305	1.005	306	16.1	0.918	0.313	0.5869	
480 minute summer	306	Hydro-Brake®	307	1.4				48.3

Results for 100 year +50% CC 480 minute winter. 720 minute analysis at 8 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
480 minute winter	300	256	51.557	0.016	2.0	0.2379	0.0000	OK
480 minute winter	301	256	48.300	0.023	4.0	0.3317	0.0000	OK
480 minute winter	302	256	44.585	0.028	6.0	0.4012	0.0000	OK
480 minute winter	303	256	40.193	0.031	8.0	0.4385	0.0000	OK
480 minute winter	304	256	33.178	0.031	10.0	0.4406	0.0000	OK
480 minute winter	305	256	30.873	0.074	12.0	1.0297	0.0000	OK
480 minute winter	306	480	29.649	0.576	12.0	108.1190	0.0000	SURCHARGED
480 minute winter	307	8	27.502	0.000	1.4	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	300	1.000	301	2.0	0.328	0.001	0.3814	
480 minute winter	301	1.001	302	4.0	0.479	0.001	0.5142	
480 minute winter	302	1.002	303	6.0	0.601	0.002	0.6382	
480 minute winter	303	1.003	304	8.0	0.751	0.002	0.8819	
480 minute winter	304	1.004	305	10.0	0.465	0.003	0.4162	
480 minute winter	305	1.005	306	12.0	0.925	0.234	0.5576	
480 minute winter	306	Hydro-Brake®	307	1.4				47.3

Results for 100 year +50% CC 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	300	315	51.558	0.017	2.2	0.2512	0.0000	OK
600 minute summer	301	315	48.301	0.024	4.4	0.3499	0.0000	OK
600 minute summer	302	315	44.587	0.029	6.6	0.4229	0.0000	OK
600 minute summer	303	315	40.194	0.033	8.8	0.4619	0.0000	OK
600 minute summer	304	315	33.179	0.033	11.0	0.4640	0.0000	OK
600 minute summer	305	315	30.876	0.078	13.2	1.0820	0.0000	OK
600 minute summer	306	540	29.569	0.496	13.2	90.2100	0.0000	SURCHARGED
600 minute summer	307	15	27.502	0.000	1.4	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)
600 minute summer	300	1.000	301	2.2	0.339	0.001	0.4069	
600 minute summer	301	1.001	302	4.4	0.493	0.002	0.5491	
600 minute summer	302	1.002	303	6.6	0.619	0.002	0.6819	
600 minute summer	303	1.003	304	8.8	0.773	0.003	0.9423	
600 minute summer	304	1.004	305	11.0	0.477	0.003	0.4470	
600 minute summer	305	1.005	306	13.2	0.851	0.257	0.5664	
600 minute summer	306	Hydro-Brake®	307	1.4				55.5

Results for 100 year +50% CC 600 minute winter. 840 minute analysis at 15 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
600 minute winter	300	315	51.556	0.015	1.7	0.2167	0.0000	OK
600 minute winter	301	315	48.298	0.021	3.4	0.3027	0.0000	OK
600 minute winter	302	315	44.583	0.026	5.1	0.3666	0.0000	OK
600 minute winter	303	315	40.190	0.028	6.8	0.4009	0.0000	OK
600 minute winter	304	315	33.175	0.028	8.5	0.4029	0.0000	OK
600 minute winter	305	315	30.867	0.068	10.2	0.9460	0.0000	OK
600 minute winter	306	600	29.644	0.571	10.2	107.0770	0.0000	SURCHARGED
600 minute winter	307	15	27.502	0.000	1.4	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)
600 minute winter	300	1.000	301	1.7	0.311	0.001	0.3418	
600 minute winter	301	1.001	302	3.4	0.455	0.001	0.4600	
600 minute winter	302	1.002	303	5.1	0.572	0.002	0.5702	
600 minute winter	303	1.003	304	6.8	0.715	0.002	0.7877	
600 minute winter	304	1.004	305	8.5	0.445	0.002	0.3686	
600 minute winter	305	1.005	306	10.2	0.898	0.199	0.5439	
600 minute winter	306	Hydro-Brake®	307	1.4				54.6

Results for 100 year +50% CC 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.84%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	300	375	51.557	0.016	2.0	0.2379	0.0000	OK
720 minute summer	301	375	48.300	0.023	4.0	0.3317	0.0000	OK
720 minute summer	302	375	44.585	0.028	6.0	0.4012	0.0000	OK
720 minute summer	303	375	40.193	0.031	8.0	0.4384	0.0000	OK
720 minute summer	304	375	33.178	0.031	10.0	0.4405	0.0000	OK
720 minute summer	305	375	30.873	0.074	12.0	1.0293	0.0000	OK
720 minute summer	306	600	29.568	0.495	12.0	90.1198	0.0000	SURCHARGED
720 minute summer	307	15	27.502	0.000	1.4	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)
720 minute summer	300	1.000	301	2.0	0.328	0.001	0.3814	
720 minute summer	301	1.001	302	4.0	0.479	0.001	0.5142	
720 minute summer	302	1.002	303	6.0	0.601	0.002	0.6381	
720 minute summer	303	1.003	304	8.0	0.751	0.002	0.8816	
720 minute summer	304	1.004	305	10.0	0.465	0.003	0.4159	
720 minute summer	305	1.005	306	12.0	0.851	0.234	0.5575	
720 minute summer	306	Hydro-Brake®	307	1.4				63.4

Results for 100 year +50% CC 720 minute winter. 960 minute analysis at 15 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
720 minute winter	300	375	51.555	0.014	1.5	0.2016	0.0000	OK
720 minute winter	301	375	48.296	0.020	3.0	0.2820	0.0000	OK
720 minute winter	302	375	44.581	0.024	4.5	0.3419	0.0000	OK
720 minute winter	303	375	40.188	0.026	6.0	0.3741	0.0000	OK
720 minute winter	304	375	33.173	0.027	7.5	0.3759	0.0000	OK
720 minute winter	305	375	30.862	0.064	9.0	0.8869	0.0000	OK
720 minute winter	306	705	29.641	0.568	9.0	106.3093	0.0000	SURCHARGED
720 minute winter	307	15	27.502	0.000	1.4	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)
720 minute winter	300	1.000	301	1.5	0.299	0.001	0.3143	
720 minute winter	301	1.001	302	3.0	0.437	0.001	0.4224	
720 minute winter	302	1.002	303	4.5	0.550	0.002	0.5231	
720 minute winter	303	1.003	304	6.0	0.688	0.002	0.7224	
720 minute winter	304	1.004	305	7.5	0.430	0.002	0.3364	
720 minute winter	305	1.005	306	9.0	0.841	0.175	0.5344	
720 minute winter	306	Hydro-Brake®	307	1.4				62.2

Results for 100 year +50% CC 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	300	495	51.555	0.014	1.6	0.2092	0.0000	OK
960 minute summer	301	495	48.297	0.020	3.2	0.2925	0.0000	OK
960 minute summer	302	495	44.582	0.025	4.8	0.3544	0.0000	OK
960 minute summer	303	495	40.189	0.027	6.4	0.3877	0.0000	OK
960 minute summer	304	495	33.174	0.028	8.0	0.3895	0.0000	OK
960 minute summer	305	495	30.864	0.066	9.6	0.9166	0.0000	OK
960 minute summer	306	720	29.562	0.489	9.6	88.8402	0.0000	SURCHARGED
960 minute summer	307	15	27.502	0.000	1.4	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)
960 minute summer	300	1.000	301	1.6	0.305	0.001	0.3282	
960 minute summer	301	1.001	302	3.2	0.446	0.001	0.4413	
960 minute summer	302	1.002	303	4.8	0.561	0.002	0.5468	
960 minute summer	303	1.003	304	6.4	0.701	0.002	0.7552	
960 minute summer	304	1.004	305	8.0	0.438	0.002	0.3525	
960 minute summer	305	1.005	306	9.6	0.692	0.187	0.5391	
960 minute summer	306	Hydro-Brake®	307	1.4				78.6

Results for 100 year +50% CC 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	300	495	51.553	0.012	1.2	0.1771	0.0000	OK
960 minute winter	301	510	48.294	0.017	2.4	0.2484	0.0000	OK
960 minute winter	302	510	44.578	0.021	3.6	0.3016	0.0000	OK
960 minute winter	303	510	40.185	0.023	4.8	0.3303	0.0000	OK
960 minute winter	304	510	33.170	0.023	6.0	0.3320	0.0000	OK
960 minute winter	305	510	30.856	0.057	7.2	0.7923	0.0000	OK
960 minute winter	306	930	29.622	0.549	7.2	102.1043	0.0000	SURCHARGED
960 minute winter	307	15	27.502	0.000	1.4	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)
960 minute winter	300	1.000	301	1.2	0.277	0.000	0.2709	
960 minute winter	301	1.001	302	2.4	0.407	0.001	0.3631	
960 minute winter	302	1.002	303	3.6	0.513	0.001	0.4491	
960 minute winter	303	1.003	304	4.8	0.641	0.001	0.6199	
960 minute winter	304	1.004	305	6.0	0.402	0.002	0.2871	
960 minute winter	305	1.005	306	7.2	0.782	0.140	0.5196	
960 minute winter	306	Hydro-Brake®	307	1.4				77.1

Results for 100 year +50% CC 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	300	750	51.553	0.012	1.1	0.1684	0.0000	OK
1440 minute summer	301	750	48.293	0.016	2.2	0.2363	0.0000	OK
1440 minute summer	302	750	44.577	0.020	3.3	0.2871	0.0000	OK
1440 minute summer	303	750	40.184	0.022	4.4	0.3145	0.0000	OK
1440 minute summer	304	750	33.169	0.022	5.5	0.3161	0.0000	OK
1440 minute summer	305	750	30.853	0.055	6.6	0.7586	0.0000	OK
1440 minute summer	306	990	29.523	0.450	6.6	80.4826	0.0000	SURCHARGED
1440 minute summer	307	30	27.502	0.000	1.4	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)
1440 minute summer	300	1.000	301	1.1	0.269	0.000	0.2557	
1440 minute summer	301	1.001	302	2.2	0.395	0.001	0.3425	
1440 minute summer	302	1.002	303	3.3	0.499	0.001	0.4233	
1440 minute summer	303	1.003	304	4.4	0.624	0.001	0.5842	
1440 minute summer	304	1.004	305	5.5	0.391	0.001	0.2702	
1440 minute summer	305	1.005	306	6.6	0.673	0.129	0.5144	
1440 minute summer	306	Hydro-Brake®	307	1.4				108.3

Results for 100 year +50% CC 1440 minute winter. 1680 minute analysis at 30 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
1440 minute winter	300	750	51.551	0.010	0.9	0.1498	0.0000	OK
1440 minute winter	301	750	48.291	0.015	1.8	0.2106	0.0000	OK
1440 minute winter	302	750	44.575	0.018	2.7	0.2562	0.0000	OK
1440 minute winter	303	750	40.181	0.020	3.6	0.2808	0.0000	OK
1440 minute winter	304	750	33.167	0.020	4.5	0.2823	0.0000	OK
1440 minute winter	305	750	30.848	0.049	5.4	0.6860	0.0000	OK
1440 minute winter	306	1080	29.581	0.508	5.4	92.8398	0.0000	SURCHARGED
1440 minute winter	307	30	27.502	0.000	1.4	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)
1440 minute winter	300	1.000	301	0.9	0.251	0.000	0.2240	
1440 minute winter	301	1.001	302	1.8	0.370	0.001	0.2994	
1440 minute winter	302	1.002	303	2.7	0.467	0.001	0.3696	
1440 minute winter	303	1.003	304	3.6	0.585	0.001	0.5098	
1440 minute winter	304	1.004	305	4.5	0.366	0.001	0.2353	
1440 minute winter	305	1.005	306	5.4	0.689	0.105	0.5036	
1440 minute winter	306	Hydro-Brake®	307	1.4				110.9