

Reference: A001-013
Revision: - -



Arun District Council

25th August 2026

Email: Amber.Wiillard@arun.gov.uk

Dear Amber,

WA/64/26/TDC at Stoneybrook

Further to the recent response from the Arun Drainage Engineer, we would wish to make the following comments to address the points raised.

1. Runoff destination

The site to the south is known to have groundwater present 350mm below the existing ground level. This was recorded immediately south of the proposed pond. On review of Site Investigation for Long Acres groundwater was recorded at 1.20m below ground level on the site, located north of Stoney Brook. Further sites to the north of Eastergate Lane have recorded groundwater between 0.8m – 1.5m in depth indicating it unviable to use infiltration.

The drainage design proposes permeable paving and swales modelled with no infiltration present.

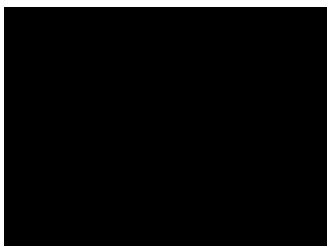
To retain surface water for reuse, a water butt is proposed and the garage roof drainage is routed to the proposed landscape areas where a raised outfall will result in surface water being retained and reused for the landscaping.

2. Extreme Rainfall and Flooding

The drainage modelling has considered both sites in one model, with an extreme event of the watercourse water level being at it's potentially highest level of 10.41m to consider the worst -case. The modelling is attached along with the revised design.

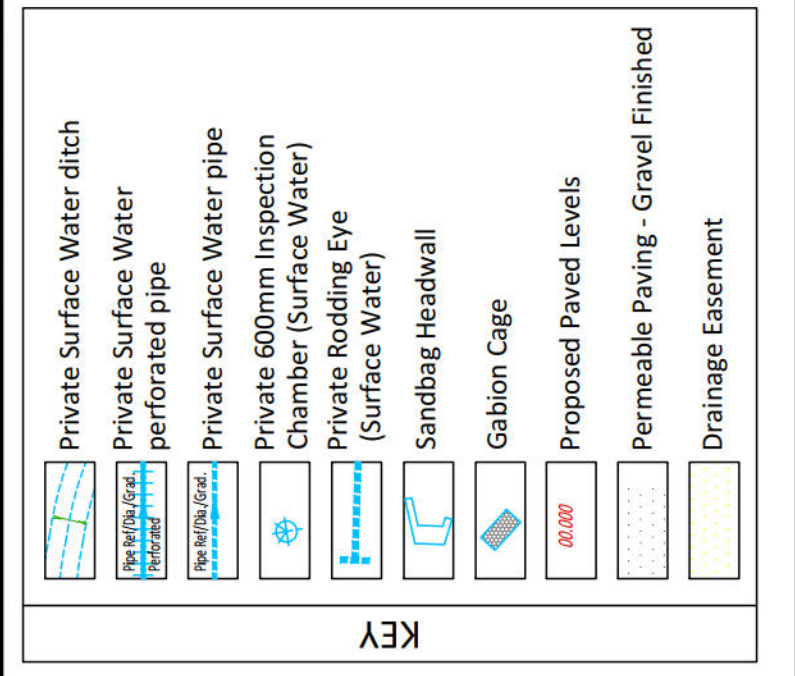
We trust the above is of interest and enables the proposed development to be approved.

Yours Sincerely



Mark Jones





1. Do not scale this drawing. All dimensions are in metres unless otherwise noted. Any discrepancies are to be recorded and reported to the engineers immediately.
2. This drawing is to be read in conjunction with all other engineers and architects drawings and the specification.
3. All works are to be carried out in accordance with the specification for the works. The specification for the works refers to Volume 1 of the Manual for Contract Documents for the Construction Industry, published by the Institution of Civil Engineers Specification for the Water and Sewerage Industry, it is applicable for the drainage works.
4. All workmanship and materials are to be to current British Standards.
5. The contractor is responsible for and must take all necessary precautions to ensure the stability of the works at all times during construction.
6. All services are to be located and protected as necessary by the contractor prior to the commencement of the works.
7. Any existing details which are shown on this drawing are for guidance only and are to be checked on site by the contractor. Any variations are to be recorded and reported to the engineer immediately.

A	25.08.26	Control chamber 0.3/s	MJ	MJ	MJ
			Rev/n	Total	Drawn



Client:

New City Joinery

Project

Land at Stoney Brook Farm,
Walberton

Drawing title

Proposed Surface Water Drainage
Sheet 1 of 2

Drawn	MJ	Checked	MJ	Approved	MJ	Date	07/26
Drawing no. A001-013/500							
Scale at A1 1:200							
Revision A							



General Notes:

10. Do not scale this drawing. All dimensions are in metres unless otherwise noted. Any discrepancies are to be recorded and reported to the engineers immediately.
11. This drawing is to be read in conjunction with all other engineers and architects drawings and the specification.
12. All works are to be carried out in accordance with the specification for the works. The specification for the works refers to "Volume 1 of the Manual for Contract Documents for Highway Works" for highway works and the "Civil Engineering Specification for the Water Industry" is applicable for the drainage works.
13. All workmanship and materials are to be to current British Standards.
14. The contractor is responsible for and must take all necessary precautions to ensure the stability of the works at all times during construction.
15. All services are to be located and protected as necessary by the contractor prior to the commencement of the works.
16. Any existing details which are shown on this drawing are for guidance only and are to be checked on site by the contractor. Any variations are to be recorded and reported to the engineer immediately.
17. During construction works on site, all roads and footpaths are to be swept and kept clear of obstructions, this is to include existing highways as appropriate to ensure safe passage of all road users.
18. Provision shall be made for the installation of all mains services including ducting prior to the laying of the road base-course.
19. All road markings and signs are to be in accordance with the traffic signs regulations and directions 2016.
20. All private connections to adoptable sewers should be a minimum of 100mm diameter (full and 150mm diameter surface) made in vitrified clay connecting soft to stiff.

[illegible]

New City Joinery

Land at Stoney Brook Farm,
Walberton

Proposed Catchment Plan

Drawn	MJ	Checked	MJ	Approved	MJ	Date	07/26
Drawing no.							Revision
Scale at A1							
A001-013/600							A
1:200							



Nodes

Name	Area (ha)	Add Area (%)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
EX IC01	0.022		5.00	11.500	600	1873687.952	-215932.244	0.700	10.800
EX IC02	0.015		5.00	11.480	600	1873686.779	-215960.954	0.967	10.513
EX.IC03				11.100	600	1873685.842	-215992.049	0.944	10.156
IC04	0.000		5.00	11.150	600	1873685.160	-216009.957	1.054	10.096
5				11.300		1873715.268	-216037.046	1.353	9.947
20				11.300		1873713.507	-216050.271	1.349	9.951
IC07				11.015	1200	1873683.089	-216053.829	1.175	9.840
22				10.490		1873682.205	-216066.557	0.774	9.716
6	0.042		5.00	11.300		1873717.843	-216034.627	1.355	9.945
7				11.300		1873719.676	-216033.369	1.356	9.944
8				11.300		1873721.802	-216032.718	1.357	9.943
9				11.300		1873723.587	-216032.860	1.358	9.942
10				11.300		1873725.136	-216033.759	1.358	9.942
11				11.300		1873725.830	-216034.975	1.359	9.941
12				11.300		1873725.101	-216037.230	1.344	9.956
13				11.300		1873722.729	-216038.703	1.345	9.955
14				11.300		1873719.996	-216039.277	1.346	9.954
15				11.300		1873717.972	-216040.119	1.347	9.953
16				11.300		1873717.120	-216041.511	1.348	9.952
17				11.300		1873717.019	-216043.112	1.348	9.952
18				11.300		1873717.027	-216044.136	1.349	9.951
19				11.300		1873716.501	-216046.937	1.349	9.951
IC05				10.845		1873707.036	-216010.085	0.822	10.023
RE02	0.023	10	5.00	11.150	1200	1873671.366	-216050.112	0.200	10.950
IC06	0.024		5.00	10.850	600	1873701.164	-216050.801	0.720	10.130
RE01	0.023	10	5.00	11.150	150	1873672.015	-216019.405	0.774	10.376
1	0.024		5.00	10.850	450	1873701.477	-216014.753	0.782	10.068
2	0.024		5.00	10.850	600	1873701.764	-216036.529	0.855	9.995
3				11.150		1873687.525	-216053.019	0.323	10.827
4				10.845		1873707.435	-216027.846	0.855	9.990
21				11.150		1873675.946	-216051.038	0.300	10.850
23	0.010		5.00	11.312		1873700.662	-215967.711	0.922	10.390
*H1	0.061		5.00	11.720	600	1873697.243	-215899.290	1.000	10.720
*H4	0.019		5.00	11.704	450	1873701.039	-215922.805	1.224	10.480
*H5	0.010		5.00	11.621		1873701.714	-215927.875	1.192	10.429
*H6	0.010		5.00	11.561		1873701.221	-215947.719	1.172	10.389
24	0.010		5.00	11.179		1873700.185	-215987.683	0.829	10.350
*H2	0.018		5.00	12.150	450	1873728.882	-215907.183	0.450	11.700
*H3				12.150	450	1873728.881	-215922.791	0.610	11.540
25	0.007		5.00	11.012		1873701.042	-216002.885	0.749	10.263

Links (Input)

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	EX IC01	EX IC02	28.734	0.600	10.800	10.513	0.287	100.1	100	5.62	50.0
1.001	EX IC02	EX.IC03	31.109	0.600	10.513	10.306	0.207	150.3	150	6.26	49.4
1.002	EX.IC03	IC04	17.921	0.600	10.156	10.096	0.060	298.7	300	6.59	48.2
1.003	IC04	IC05	21.876	0.600	10.096	10.023	0.073	299.7	300	6.99	46.8
1.007	6	7	2.223	0.012	9.945	9.944	0.001	2223.2	300	7.75	44.4
1.008	7	8	2.223	0.012	9.944	9.943	0.001	2223.4	300	7.87	44.0
1.004	5	6	3.297	0.012	9.947	9.945	0.002	1648.5	300	7.63	40.8
1.010	11	12	3.669	0.012	9.960	9.956	0.004	917.3	300	8.17	43.7
1.019	20	IC07	32.187	0.012	10.383	9.840	0.543	59.3	225	9.14	37.7
1.009	8	9	1.791	0.012	9.943	9.942	0.001	1790.6	300	7.96	43.8
1.010_1	9	10	1.000	0.012	9.942	9.942	0.000	0.0	300	7.98	43.7
1.011	10	11	1.400	0.012	9.942	9.941	0.001	1400.1	300	8.04	43.5
1.022	IC07	22	12.759	0.012	9.840	9.716	0.124	102.9	100	9.44	40.0

Links (Input)

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.013	12	13	2.792	0.012	9.956	9.955	0.001	2792.2	300	8.34	42.7
1.014	13	14	2.793	0.012	9.955	9.954	0.001	2792.6	300	8.51	42.2
1.015	14	15	2.192	0.012	9.954	9.953	0.001	2192.2	300	8.63	41.9
1.016	15	16	1.632	0.012	9.953	9.952	0.001	1632.0	300	8.71	41.7
1.017	16	17	1.000	0.012	9.952	9.952	0.000	0.0	300	8.73	41.7
1.018	17	18	1.024	0.012	9.952	9.951	0.001	1024.0	300	8.77	41.6
1.019_1	18	19	1.000	0.012	9.951	9.951	0.000	0.0	300	8.78	41.5
1.020	19	20	1.000	0.012	9.951	9.951	0.000	0.0	300	8.80	41.5
1.004_1	IC05	4	17.765	0.018	10.026	9.990	0.036	493.5	2500	7.21	46.1
5.000	RE02	21	4.673	0.600	10.950	10.919	0.031	150.7	150	5.10	50.0
4.000	IC06	2	14.285	0.600	10.130	10.065	0.065	219.8	225	5.27	50.0
2.000	RE01	IC04	16.188	0.600	10.376	10.214	0.162	99.9	150	5.27	50.0
3.000	1	2	21.778	0.600	10.068	9.995	0.073	298.3	300	5.40	50.0
3.001	2	5	13.514	0.600	9.995	9.950	0.045	300.3	300	5.65	50.0
5.001	3	IC07	4.984	0.600	10.900	9.840	1.060	4.7	100	5.33	50.0
1.005	4	5	14.211	0.600	10.100	10.053	0.047	302.4	300	7.47	45.7
5.001_1	21	3	11.747	0.018	10.850	10.827	0.023	510.7	3000	5.30	50.0
1.004_2	*H6	23	20.000	0.018	10.480	10.390	0.090	222.2	1000	5.89	50.0
*2.000	*H1	*H4	23.819	0.600	10.720	10.482	0.238	100.1	150	5.40	50.0
*1.002	*H4	*H5	5.115	0.600	10.480	10.429	0.051	100.3	225	5.56	50.0
*1.003	*H5	*H6	19.850	0.018	10.429	10.389	0.040	496.3	1000	5.76	50.0
1.005_1	23	24	19.978	0.018	10.390	10.350	0.040	499.4	1000	6.09	50.0
1.006	24	25	15.226	0.018	10.400	10.266	0.134	113.6	2500	6.18	49.7
1.007_1	25	IC05	9.368	0.018	10.263	10.026	0.237	39.5	2500	6.21	49.5
*1.000	*H2	*H3	15.608	0.600	11.700	11.544	0.156	100.1	150	5.26	50.0
*1.001	*H3	*H4	27.842	0.600	11.540	10.480	1.060	26.3	150	5.49	50.0

SuDS CarriersTime to
Half Empty (mins)1
1
1
1
1
1
1
1Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	✓	Check Discharge Rate(s)	x
Rainfall Events	Singular	Drain Down Time (mins)	10080	Check Discharge Volume	x
Summer CV	1.000	Additional Storage (m³/ha)	0.0		
Analysis Speed	Detailed	Starting Level (m)	0.000		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	30	40	0	0
10	40	0	0	100	45	0	0

Node IC07 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	9.840	Product Number	CTL-SHE-0032-5000-1000-5000
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	0.5	Min Node Diameter (mm)	1200

Node *H4 Online Orifice Control

Flap Valve	x	Design Depth (m)	1.000	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Flow (l/s)	3.0		
Invert Level (m)	10.480	Diameter (m)	0.038		

Node 6 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 7 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 8 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 9 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 10 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 11 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900



Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 12 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 13 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 14 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 15 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 16 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 17 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 18 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900



Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 19 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 20 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	6900

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 2 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	10.315	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	12420	Depth (m)	
Safety Factor	2.0	Width (m)	14.800	Inf Depth (m)	0.305
Porosity	0.30	Length (m)	16.600		

Node 1 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	10.315	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	12420	Depth (m)	
Safety Factor	2.0	Width (m)	14.800	Inf Depth (m)	0.305
Porosity	0.30	Length (m)	16.600		

Node *H1 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	10.720	Slope (1:X)	34.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	240	Depth (m)	
Safety Factor	2.0	Width (m)	12.000	Inf Depth (m)	0.125
Porosity	0.30	Length (m)	31.000		

Node IC06 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	10.315	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	12420	Depth (m)	
Safety Factor	2.0	Width (m)	14.800	Inf Depth (m)	0.305
Porosity	0.30	Length (m)	16.600		

Results for 1 year Critical Storm Duration. Lowest mass balance: 90.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX IC01	10	10.846	0.046	2.7	0.0132	0.0000	OK
15 minute summer	EX IC02	11	10.571	0.058	4.6	0.0164	0.0000	OK
10080 minute summer	EX.IC03	6960	10.349	0.193	0.2	0.0546	0.0000	OK
10080 minute summer	IC04	6960	10.349	0.253	0.3	0.0715	0.0000	OK
10080 minute summer	5	6960	10.349	0.402	0.9	0.0000	0.0000	SURCHARGED
10080 minute summer	20	6960	10.349	0.398	0.1	5.0931	0.0000	OK
480 minute summer	IC07	296	10.078	0.238	0.7	0.2689	0.0000	SURCHARGED
360 minute summer	22	216	9.733	0.017	0.3	0.0000	0.0000	OK
10080 minute summer	6	6960	10.349	0.404	0.9	5.0928	0.0000	SURCHARGED
10080 minute summer	7	6960	10.349	0.405	0.9	5.0927	0.0000	SURCHARGED
10080 minute summer	8	6960	10.349	0.406	0.8	5.0929	0.0000	SURCHARGED
10080 minute summer	9	6960	10.349	0.407	0.8	5.0927	0.0000	SURCHARGED
10080 minute summer	10	6960	10.349	0.407	0.7	5.0927	0.0000	SURCHARGED
10080 minute summer	11	6960	10.349	0.408	0.6	5.0928	0.0000	SURCHARGED
10080 minute summer	12	6960	10.349	0.393	0.6	5.0932	0.0000	SURCHARGED
10080 minute summer	13	6960	10.349	0.394	0.5	5.0931	0.0000	SURCHARGED
10080 minute summer	14	6960	10.349	0.395	0.4	5.0933	0.0000	SURCHARGED
10080 minute summer	15	6960	10.349	0.396	0.4	5.0934	0.0000	SURCHARGED
10080 minute summer	16	6960	10.349	0.397	0.3	5.0932	0.0000	SURCHARGED
10080 minute summer	17	6960	10.349	0.397	0.3	5.0932	0.0000	SURCHARGED
10080 minute summer	18	6960	10.349	0.398	0.2	5.0932	0.0000	SURCHARGED
10080 minute summer	19	6960	10.349	0.398	0.1	5.0931	0.0000	SURCHARGED
10080 minute summer	IC05	6960	10.349	0.326	0.8	0.0000	0.0000	OK
15 minute summer	RE02	10	10.999	0.049	3.2	0.0557	0.0000	OK
10080 minute summer	IC06	6960	10.349	0.219	0.1	1.9204	0.0000	OK
15 minute summer	RE01	10	10.420	0.044	3.2	0.0008	0.0000	OK
10080 minute summer	1	6960	10.349	0.281	0.1	1.9005	0.0000	OK
10080 minute summer	2	6960	10.349	0.354	0.3	1.9548	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX IC01	1.000	EX IC02	2.7	0.666	0.442	0.1182	
15 minute summer	EX IC02	1.001	EX.IC03	4.4	0.717	0.308	0.1930	
10080 minute summer	EX.IC03	1.002	IC04	0.2	0.130	0.003	0.9966	
10080 minute summer	IC04	1.003	IC05	0.3	0.035	0.004	1.4632	
10080 minute summer	5	1.004	6	0.8	0.064	0.050	0.2851	
10080 minute summer	20	1.019	IC07	0.0	0.000	0.000	0.0490	
480 minute summer	IC07	1.022	22	0.3	0.390	0.063	0.0113	3.8
10080 minute summer	6	1.007	7	0.9	0.127	0.061	0.1936	
10080 minute summer	7	1.008	8	0.8	0.137	0.057	0.1946	
10080 minute summer	8	1.009	9	0.8	0.171	0.047	0.1577	
10080 minute summer	9	1.010_1	10	0.7	0.211	0.014	0.0882	
10080 minute summer	10	1.011	11	0.6	0.393	0.035	0.1238	
10080 minute summer	11	1.010	12	0.6	0.110	0.025	0.2988	
10080 minute summer	12	1.013	13	0.5	0.111	0.039	0.2303	
10080 minute summer	13	1.014	14	0.4	0.122	0.034	0.2315	
10080 minute summer	14	1.015	15	0.4	0.143	0.026	0.1826	
10080 minute summer	15	1.016	16	0.3	0.193	0.019	0.1367	
10080 minute summer	16	1.017	17	0.3	0.444	0.005	0.0839	
10080 minute summer	17	1.018	18	0.2	0.016	0.009	0.0862	
10080 minute summer	18	1.019_1	19	0.1	0.010	0.003	0.0844	
10080 minute summer	19	1.020	20	0.1	0.005	0.001	0.0844	
10080 minute summer	IC05	1.004_1	4	0.6	0.006	0.000	21.3352	
15 minute summer	RE02	5.000	21	3.1	0.642	0.218	0.0229	
10080 minute summer	IC06	4.000	2	0.1	0.232	0.003	0.5658	
15 minute summer	RE01	2.000	IC04	3.1	0.749	0.177	0.0680	
10080 minute summer	1	3.000	2	0.1	0.021	0.002	1.5130	
10080 minute summer	2	3.001	5	0.3	0.018	0.005	0.9516	

Results for 1 year Critical Storm Duration. Lowest mass balance: 90.23%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	3	256	10.911	0.084	0.8	0.0000	0.0000	OK
10080 minute summer	4	6960	10.349	0.359	0.6	0.0000	0.0000	OK
480 minute summer	21	256	10.911	0.061	0.8	0.0000	0.0000	OK
120 minute summer	23	66	10.412	0.022	3.9	0.0000	0.0000	OK
180 minute summer	*H1	116	10.980	0.260	3.4	4.2271	0.0000	SURCHARGED
180 minute summer	*H4	116	10.978	0.498	2.1	0.0792	0.0000	SURCHARGED
120 minute summer	*H5	66	10.494	0.065	2.6	0.0000	0.0000	OK
120 minute summer	*H6	66	10.494	0.105	3.3	0.0000	0.0000	OK
120 minute summer	24	66	10.409	0.059	4.5	0.0000	0.0000	OK
15 minute summer	*H2	10	11.737	0.037	2.3	0.0059	0.0000	OK
15 minute summer	*H3	11	11.566	0.026	2.3	0.0041	0.0000	OK
10080 minute summer	25	6960	10.349	0.086	0.5	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)
480 minute summer	3	5.001	IC07	0.7	0.882	0.026	0.0207	
10080 minute summer	4	1.005	5	0.6	0.141	0.009	0.9425	
480 minute summer	21	5.001_1	3	0.8	0.009	0.001	2.7540	
120 minute summer	23	1.005_1	24	3.9	0.085	0.001	0.9271	
180 minute summer	*H1	*2.000	*H4	1.7	0.278	0.095	0.4193	
180 minute summer	*H4	*1.002	*H5	2.1	0.623	0.040	0.0322	
120 minute summer	*H5	*1.003	*H6	2.6	0.064	0.000	2.1544	
120 minute summer	*H6	1.004_2	23	3.2	0.167	0.000	0.3850	
120 minute summer	24	1.006	25	4.5	0.226	0.001	0.3012	
15 minute summer	*H2	*1.000	*H3	2.3	0.683	0.128	0.0518	
15 minute summer	*H3	*1.001	*H4	2.2	0.190	0.064	0.2732	
10080 minute summer	25	1.007_1	IC05	0.5	0.007	0.000	6.3487	

Results for 10 year +40% CC Critical Storm Duration. Lowest mass balance: 98.40%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX IC01	12	11.474	0.674	11.3	0.1907	0.0000	FLOOD RISK
15 minute summer	EX IC02	11	10.688	0.175	16.6	0.0494	0.0000	SURCHARGED
10080 minute summer	EX.IC03	6720	10.589	0.433	0.3	0.1226	0.0000	SURCHARGED
10080 minute summer	IC04	6720	10.589	0.493	0.5	0.1396	0.0000	SURCHARGED
10080 minute summer	5	6720	10.589	0.642	1.4	0.0000	0.0000	SURCHARGED
10080 minute summer	20	6720	10.589	0.638	0.8	10.1139	0.0000	OK
10080 minute summer	IC07	6720	10.589	0.749	0.9	0.8474	0.0000	SURCHARGED
10080 minute summer	22	6720	9.735	0.019	0.4	0.0000	0.0000	OK
10080 minute summer	6	6720	10.589	0.644	1.7	10.1140	0.0000	SURCHARGED
10080 minute summer	7	6720	10.589	0.645	1.6	10.1140	0.0000	SURCHARGED
10080 minute summer	8	6720	10.589	0.646	1.6	10.1139	0.0000	SURCHARGED
10080 minute summer	9	6720	10.589	0.647	1.6	10.1139	0.0000	SURCHARGED
10080 minute summer	10	6720	10.589	0.647	1.5	10.1139	0.0000	SURCHARGED
10080 minute summer	11	6720	10.589	0.648	1.4	10.1139	0.0000	SURCHARGED
10080 minute summer	12	6720	10.589	0.633	1.3	10.1139	0.0000	SURCHARGED
10080 minute summer	13	6720	10.589	0.634	1.3	10.1140	0.0000	SURCHARGED
10080 minute summer	14	6720	10.589	0.635	1.2	10.1140	0.0000	SURCHARGED
10080 minute summer	15	6720	10.589	0.636	1.2	10.1140	0.0000	SURCHARGED
10080 minute summer	16	6720	10.589	0.637	1.1	10.1140	0.0000	SURCHARGED
10080 minute summer	17	6720	10.589	0.637	1.0	10.1140	0.0000	SURCHARGED
10080 minute summer	18	6720	10.589	0.638	0.9	10.1140	0.0000	SURCHARGED
10080 minute summer	19	6720	10.589	0.638	0.8	10.1139	0.0000	SURCHARGED
10080 minute summer	IC05	6720	10.589	0.566	2.3	0.0000	0.0000	OK
15 minute summer	RE02	10	11.065	0.115	13.0	0.1305	0.0000	OK
10080 minute summer	IC06	6720	10.589	0.459	0.4	19.7213	0.0000	FLOOD RISK
10080 minute summer	RE01	6720	10.589	0.213	0.2	0.0038	0.0000	SURCHARGED
10080 minute summer	1	6720	10.589	0.521	0.4	19.6743	0.0000	FLOOD RISK
10080 minute summer	2	6720	10.589	0.594	0.5	19.7596	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX IC01	1.000	EX IC02	9.4	1.203	1.560	0.2248	
15 minute summer	EX IC02	1.001	EX.IC03	16.0	0.949	1.109	0.5035	
10080 minute summer	EX.IC03	1.002	IC04	0.3	0.043	0.005	1.2620	
10080 minute summer	IC04	1.003	IC05	0.5	0.015	0.008	1.5405	
10080 minute summer	5	1.004	6	1.3	0.129	0.076	0.7276	
10080 minute summer	20	1.019	IC07	0.7	0.066	0.012	1.2541	
10080 minute summer	IC07	1.022	22	0.4	0.418	0.080	0.0134	254.5
10080 minute summer	6	1.007	7	1.6	0.107	0.114	0.4929	
10080 minute summer	7	1.008	8	1.6	0.114	0.112	0.4944	
10080 minute summer	8	1.009	9	1.6	0.122	0.097	0.3998	
10080 minute summer	9	1.010_1	10	1.5	0.126	0.031	0.2236	
10080 minute summer	10	1.011	11	1.4	0.107	0.076	0.3135	
10080 minute summer	11	1.010	12	1.3	0.106	0.058	0.7802	
10080 minute summer	12	1.013	13	1.3	0.106	0.097	0.5984	
10080 minute summer	13	1.014	14	1.2	0.117	0.094	0.6005	
10080 minute summer	14	1.015	15	1.2	0.158	0.079	0.4727	
10080 minute summer	15	1.016	16	1.1	0.314	0.063	0.3530	
10080 minute summer	16	1.017	17	1.0	0.297	0.020	0.2167	
10080 minute summer	17	1.018	18	0.9	0.021	0.042	0.2222	
10080 minute summer	18	1.019_1	19	0.8	0.014	0.017	0.2173	
10080 minute summer	19	1.020	20	0.8	0.007	0.016	0.2173	
10080 minute summer	IC05	1.004_1	4	2.5	0.006	0.001	43.8486	
15 minute summer	RE02	5.000	21	12.9	0.928	0.894	0.0649	
10080 minute summer	IC06	4.000	2	-0.2	0.031	-0.005	0.5681	
10080 minute summer	RE01	2.000	IC04	0.2	0.270	0.011	0.2850	
10080 minute summer	1	3.000	2	-0.2	0.006	-0.003	1.5336	
10080 minute summer	2	3.001	5	0.3	0.008	0.005	0.9516	

Results for 10 year +40% CC Critical Storm Duration. Lowest mass balance: 98.40%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	3	20	10.939	0.112	9.7	0.0000	0.0000	OK
10080 minute summer	4	6720	10.589	0.599	2.5	0.0000	0.0000	FLOOD RISK
30 minute summer	21	20	10.939	0.089	11.8	0.0000	0.0000	OK
10080 minute summer	23	6720	10.589	0.199	1.3	0.0000	0.0000	OK
120 minute summer	*H1	100	11.404	0.684	20.3	28.8637	0.0000	SURCHARGED
120 minute summer	*H4	98	11.401	0.921	8.9	0.1465	0.0000	SURCHARGED
10080 minute summer	*H5	6720	10.589	0.160	1.1	0.0000	0.0000	OK
10080 minute summer	*H6	6720	10.589	0.200	1.2	0.0000	0.0000	OK
10080 minute summer	24	6720	10.589	0.239	1.3	0.0000	0.0000	OK
15 minute summer	*H2	10	11.781	0.081	9.4	0.0129	0.0000	OK
15 minute summer	*H3	10	11.593	0.053	9.3	0.0084	0.0000	OK
10080 minute summer	25	6720	10.589	0.326	1.6	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	3	5.001	IC07	9.0	2.042	0.320	0.0265	
10080 minute summer	4	1.005	5	1.4	0.247	0.022	1.0007	
30 minute summer	21	5.001_1	3	9.7	0.077	0.009	3.8971	
10080 minute summer	23	1.005_1	24	1.2	0.032	0.000	7.2890	
120 minute summer	*H1	*2.000	*H4	-5.9	0.368	-0.334	0.4193	
120 minute summer	*H4	*1.002	*H5	2.8	0.825	0.055	0.0391	
10080 minute summer	*H5	*1.003	*H6	1.1	0.013	0.000	5.5404	
10080 minute summer	*H6	1.004_2	23	1.2	0.096	0.000	4.6373	
10080 minute summer	24	1.006	25	1.5	0.070	0.000	12.9637	
15 minute summer	*H2	*1.000	*H3	9.3	0.990	0.524	0.1468	
15 minute summer	*H3	*1.001	*H4	9.3	0.676	0.266	0.3222	
10080 minute summer	25	1.007_1	IC05	1.9	0.007	0.000	16.3742	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 98.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX IC01	10	11.500	0.700	14.7	0.1981	0.7787	FLOOD
15 minute summer	EX IC02	11	10.779	0.266	19.1	0.0753	0.0000	SURCHARGED
10080 minute summer	EX.IC03	6900	10.660	0.504	0.4	0.1428	0.0000	SURCHARGED
10080 minute summer	IC04	6900	10.660	0.564	0.7	0.1597	0.0000	SURCHARGED
10080 minute summer	5	6900	10.660	0.713	1.4	0.0000	0.0000	SURCHARGED
10080 minute summer	20	6900	10.660	0.709	0.8	11.7559	0.0000	SURCHARGED
10080 minute summer	IC07	6900	10.660	0.820	0.9	0.9279	0.0000	SURCHARGED
10080 minute summer	22	6900	9.736	0.020	0.5	0.0000	0.0000	OK
10080 minute summer	6	6900	10.660	0.715	1.7	11.7560	0.0000	SURCHARGED
10080 minute summer	7	6900	10.660	0.716	1.6	11.7560	0.0000	SURCHARGED
10080 minute summer	8	6900	10.660	0.717	1.6	11.7560	0.0000	SURCHARGED
10080 minute summer	9	6900	10.660	0.718	1.5	11.7560	0.0000	SURCHARGED
10080 minute summer	10	6900	10.660	0.718	1.4	11.7560	0.0000	SURCHARGED
10080 minute summer	11	6900	10.660	0.719	1.4	11.7560	0.0000	SURCHARGED
10080 minute summer	12	6900	10.660	0.704	1.3	11.7560	0.0000	SURCHARGED
10080 minute summer	13	6900	10.660	0.705	1.3	11.7560	0.0000	SURCHARGED
10080 minute summer	14	6900	10.660	0.706	1.2	11.7559	0.0000	SURCHARGED
10080 minute summer	15	6900	10.660	0.707	1.1	11.7559	0.0000	SURCHARGED
10080 minute summer	16	6900	10.660	0.708	1.1	11.7559	0.0000	SURCHARGED
10080 minute summer	17	6900	10.660	0.708	1.0	11.7559	0.0000	SURCHARGED
10080 minute summer	18	6900	10.660	0.709	0.9	11.7559	0.0000	SURCHARGED
10080 minute summer	19	6900	10.660	0.709	0.9	11.7559	0.0000	SURCHARGED
10080 minute summer	IC05	6900	10.660	0.637	2.0	0.0000	0.0000	FLOOD RISK
15 minute summer	RE02	10	11.094	0.144	16.9	0.1630	0.0000	OK
10080 minute summer	IC06	6900	10.660	0.530	0.3	24.9844	0.0000	FLOOD RISK
10080 minute summer	RE01	6900	10.661	0.285	0.3	0.0051	0.0000	SURCHARGED
10080 minute summer	1	6900	10.660	0.592	0.3	24.9284	0.0000	FLOOD RISK
10080 minute summer	2	6900	10.660	0.665	0.5	25.0221	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX IC01	1.000	EX IC02	9.4	1.199	1.555	0.2248	
15 minute summer	EX IC02	1.001	EX.IC03	18.6	1.066	1.288	0.5186	
10080 minute summer	EX.IC03	1.002	IC04	0.4	0.040	0.006	1.2620	
10080 minute summer	IC04	1.003	IC05	0.7	0.014	0.011	1.5405	
10080 minute summer	5	1.004	6	1.3	0.102	0.079	0.8974	
10080 minute summer	20	1.019	IC07	0.7	0.066	0.011	1.2801	
10080 minute summer	IC07	1.022	22	0.5	0.423	0.083	0.0138	336.1
10080 minute summer	6	1.007	7	1.6	0.107	0.113	0.6076	
10080 minute summer	7	1.008	8	1.6	0.147	0.108	0.6093	
10080 minute summer	8	1.009	9	1.5	0.352	0.093	0.4925	
10080 minute summer	9	1.010_1	10	1.4	0.050	0.030	0.2754	
10080 minute summer	10	1.011	11	1.4	0.049	0.076	0.3861	
10080 minute summer	11	1.010	12	1.3	0.135	0.059	0.9659	
10080 minute summer	12	1.013	13	1.3	0.357	0.097	0.7402	
10080 minute summer	13	1.014	14	1.2	0.111	0.090	0.7425	
10080 minute summer	14	1.015	15	1.1	0.120	0.076	0.5844	
10080 minute summer	15	1.016	16	1.1	0.130	0.062	0.4363	
10080 minute summer	16	1.017	17	1.0	0.140	0.021	0.2677	
10080 minute summer	17	1.018	18	0.9	0.150	0.044	0.2745	
10080 minute summer	18	1.019_1	19	0.9	0.182	0.018	0.2685	
10080 minute summer	19	1.020	20	0.8	0.311	0.017	0.2685	
10080 minute summer	IC05	1.004_1	4	2.1	0.012	0.001	51.6830	
15 minute summer	RE02	5.000	21	16.7	1.018	1.158	0.0758	
10080 minute summer	IC06	4.000	2	-0.1	0.026	-0.003	0.5681	
10080 minute summer	RE01	2.000	IC04	0.3	0.270	0.017	0.2850	
10080 minute summer	1	3.000	2	-0.1	0.005	-0.002	1.5336	
10080 minute summer	2	3.001	5	0.3	0.008	0.005	0.9516	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 98.76%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	3	20	10.949	0.122	13.7	0.0000	0.0000	OK
10080 minute summer	4	6900	10.660	0.670	2.1	0.0000	0.0000	FLOOD RISK
30 minute summer	21	20	10.949	0.099	15.4	0.0000	0.0000	OK
10080 minute summer	23	6900	10.660	0.270	1.4	0.0000	0.0000	OK
120 minute summer	*H1	114	11.526	0.806	26.6	40.0163	0.0000	FLOOD RISK
30 minute summer	*H4	19	11.565	1.085	22.3	0.1725	0.0000	FLOOD RISK
10080 minute summer	*H5	6900	10.660	0.231	2.3	0.0000	0.0000	OK
10080 minute summer	*H6	6900	10.660	0.271	1.3	0.0000	0.0000	OK
10080 minute summer	24	6900	10.660	0.310	1.4	0.0000	0.0000	OK
15 minute summer	*H2	10	11.797	0.097	12.3	0.0154	0.0000	OK
15 minute summer	*H3	12	11.645	0.105	12.2	0.0167	0.0000	OK
10080 minute summer	25	6900	10.660	0.397	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)
30 minute summer	3	5.001	IC07	12.7	2.046	0.452	0.0290	
10080 minute summer	4	1.005	5	1.4	0.247	0.022	1.0007	
30 minute summer	21	5.001_1	3	13.7	0.084	0.012	4.3346	
10080 minute summer	23	1.005_1	24	1.3	0.032	0.000	10.8828	
120 minute summer	*H1	*2.000	*H4	-8.2	-0.465	-0.462	0.4193	
30 minute summer	*H4	*1.002	*H5	3.1	0.859	0.059	0.0468	
10080 minute summer	*H5	*1.003	*H6	1.2	0.012	0.000	8.7797	
10080 minute summer	*H6	1.004_2	23	1.3	0.096	0.000	7.6802	
10080 minute summer	24	1.006	25	1.3	0.056	0.000	17.5670	
15 minute summer	*H2	*1.000	*H3	12.2	1.049	0.685	0.1865	
15 minute summer	*H3	*1.001	*H4	11.2	0.784	0.323	0.4279	
10080 minute summer	25	1.007_1	IC05	1.5	0.010	0.000	19.9600	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX IC01	9	11.500	0.700	19.1	0.1981	2.1711	FLOOD
15 minute summer	EX IC02	11	10.879	0.366	21.4	0.1036	0.0000	SURCHARGED
10080 minute summer	EX.IC03	7260	10.756	0.600	0.5	0.1697	0.0000	SURCHARGED
10080 minute summer	IC04	7260	10.756	0.660	0.8	0.1867	0.0000	SURCHARGED
10080 minute summer	5	7260	10.756	0.809	1.4	0.0000	0.0000	SURCHARGED
10080 minute summer	20	7260	10.756	0.805	0.9	14.0660	0.0000	SURCHARGED
10080 minute summer	IC07	7260	10.756	0.916	1.0	1.0355	0.0000	FLOOD RISK
10080 minute summer	22	7260	9.736	0.020	0.5	0.0000	0.0000	OK
10080 minute summer	6	7260	10.756	0.811	1.7	14.0660	0.0000	SURCHARGED
10080 minute summer	7	7260	10.756	0.812	1.7	14.0660	0.0000	SURCHARGED
10080 minute summer	8	7260	10.756	0.813	1.6	14.0660	0.0000	SURCHARGED
10080 minute summer	9	7260	10.756	0.814	1.6	14.0660	0.0000	SURCHARGED
10080 minute summer	10	7260	10.756	0.814	1.5	14.0660	0.0000	SURCHARGED
10080 minute summer	11	7260	10.756	0.815	1.4	14.0660	0.0000	SURCHARGED
10080 minute summer	12	7260	10.756	0.800	1.4	14.0660	0.0000	SURCHARGED
10080 minute summer	13	7260	10.756	0.801	1.3	14.0660	0.0000	SURCHARGED
10080 minute summer	14	7260	10.756	0.802	1.3	14.0660	0.0000	SURCHARGED
10080 minute summer	15	7260	10.756	0.803	1.2	14.0660	0.0000	SURCHARGED
10080 minute summer	16	7260	10.756	0.804	1.1	14.0660	0.0000	SURCHARGED
10080 minute summer	17	7260	10.756	0.804	1.1	14.0660	0.0000	SURCHARGED
10080 minute summer	18	7260	10.756	0.805	1.0	14.0660	0.0000	SURCHARGED
10080 minute summer	19	7260	10.756	0.805	0.9	14.0660	0.0000	SURCHARGED
10080 minute summer	IC05	7260	10.756	0.733	2.2	0.0000	0.0000	FLOOD RISK
15 minute summer	RE02	10	11.146	0.196	21.9	0.2218	0.0000	FLOOD RISK
10080 minute summer	IC06	7260	10.756	0.626	0.3	32.0261	0.0000	FLOOD RISK
10080 minute summer	RE01	7260	10.756	0.380	0.3	0.0068	0.0000	SURCHARGED
10080 minute summer	1	7260	10.756	0.688	0.3	31.9582	0.0000	FLOOD RISK
10080 minute summer	2	7260	10.756	0.761	0.7	32.0642	0.0000	FLOOD RISK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX IC01	1.000	EX IC02	9.2	1.179	1.529	0.2248	
15 minute summer	EX IC02	1.001	EX.IC03	20.9	1.192	1.451	0.5286	
10080 minute summer	EX.IC03	1.002	IC04	0.5	0.024	0.008	1.2620	
10080 minute summer	IC04	1.003	IC05	0.8	0.011	0.012	1.5405	
10080 minute summer	5	1.004	6	1.3	0.020	0.080	1.1524	
10080 minute summer	20	1.019	IC07	0.8	0.034	0.013	1.2801	
10080 minute summer	IC07	1.022	22	0.5	0.429	0.087	0.0142	426.0
10080 minute summer	6	1.007	7	1.7	0.127	0.117	0.7799	
10080 minute summer	7	1.008	8	1.6	0.137	0.113	0.7818	
10080 minute summer	8	1.009	9	1.6	0.171	0.098	0.6318	
10080 minute summer	9	1.010_1	10	1.5	0.211	0.032	0.3532	
10080 minute summer	10	1.011	11	1.4	0.393	0.079	0.4951	
10080 minute summer	11	1.010	12	1.4	0.110	0.061	1.2454	
10080 minute summer	12	1.013	13	1.3	0.111	0.104	0.9536	
10080 minute summer	13	1.014	14	1.3	0.122	0.098	0.9563	
10080 minute summer	14	1.015	15	1.2	0.143	0.083	0.7523	
10080 minute summer	15	1.016	16	1.1	0.193	0.067	0.5615	
10080 minute summer	16	1.017	17	1.1	0.444	0.022	0.3445	
10080 minute summer	17	1.018	18	1.0	0.013	0.047	0.3532	
10080 minute summer	18	1.019_1	19	0.9	0.009	0.020	0.3453	
10080 minute summer	19	1.020	20	0.9	0.008	0.018	0.3453	
10080 minute summer	IC05	1.004_1	4	2.0	0.012	0.001	63.0168	
15 minute summer	RE02	5.000	21	21.7	1.233	1.504	0.0797	
10080 minute summer	IC06	4.000	2	-0.1	0.023	-0.003	0.5681	
10080 minute summer	RE01	2.000	IC04	0.3	0.270	0.017	0.2850	
10080 minute summer	1	3.000	2	0.1	0.005	0.002	1.5336	
10080 minute summer	2	3.001	5	-0.5	0.007	-0.007	0.9516	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	3	20	10.967	0.140	17.2	0.0000	0.0000	OK
10080 minute summer	4	7260	10.756	0.766	2.0	0.0000	0.0000	FLOOD RISK
30 minute summer	21	20	10.967	0.117	20.1	0.0000	0.0000	OK
10080 minute summer	23	7260	10.756	0.366	1.4	0.0000	0.0000	OK
120 minute summer	*H1	120	11.670	0.950	35.0	55.4697	0.0000	FLOOD RISK
30 minute summer	*H4	18	11.704	1.224	27.5	0.1946	0.6380	FLOOD
10080 minute summer	*H5	7260	10.756	0.327	2.2	0.0000	0.0000	OK
10080 minute summer	*H6	7260	10.756	0.367	1.6	0.0000	0.0000	OK
10080 minute summer	24	7260	10.756	0.406	1.4	0.0000	0.0000	OK
15 minute summer	*H2	11	12.017	0.317	15.9	0.0505	0.0000	FLOOD RISK
15 minute summer	*H3	12	11.901	0.361	14.6	0.0574	0.0000	FLOOD RISK
10080 minute summer	25	7260	10.756	0.493	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)
30 minute summer	3	5.001	IC07	15.1	2.063	0.535	0.0333	
10080 minute summer	4	1.005	5	1.4	0.083	0.022	1.0007	
30 minute summer	21	5.001_1	3	17.2	0.100	0.015	5.1003	
10080 minute summer	23	1.005_1	24	1.3	0.031	0.000	16.6424	
120 minute summer	*H1	*2.000	*H4	-11.2	-0.636	-0.631	0.4193	
30 minute summer	*H4	*1.002	*H5	3.3	0.851	0.063	0.0503	
10080 minute summer	*H5	*1.003	*H6	1.5	0.012	0.000	14.0609	
10080 minute summer	*H6	1.004_2	23	1.3	0.095	0.000	12.7035	
10080 minute summer	24	1.006	25	1.3	0.032	0.000	24.4536	
15 minute summer	*H2	*1.000	*H3	14.6	1.078	0.820	0.2748	
15 minute summer	*H3	*1.001	*H4	13.9	0.790	0.399	0.4902	
10080 minute summer	25	1.007_1	IC05	1.5	0.010	0.000	25.2060	

Nodes

Name	Area (ha)	Add Area (%)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
EX IC01	0.022		5.00	11.500	600	1873687.952	-215932.244	0.700	10.800
EX IC02	0.015		5.00	11.480	600	1873686.779	-215960.954	0.967	10.513
EX.IC03				11.100	600	1873685.842	-215992.049	0.944	10.156
IC04	0.000		5.00	11.150	600	1873685.160	-216009.957	1.054	10.096
5				11.300		1873715.268	-216037.046	1.353	9.947
20				11.300		1873713.507	-216050.271	1.349	9.951
IC07				11.015	1200	1873683.089	-216053.829	1.175	9.840
22				10.490		1873682.205	-216066.557	0.774	9.716
6	0.042		5.00	11.300		1873717.843	-216034.627	1.355	9.945
7				11.300		1873719.676	-216033.369	1.356	9.944
8				11.300		1873721.802	-216032.718	1.357	9.943
9				11.300		1873723.587	-216032.860	1.358	9.942
10				11.300		1873725.136	-216033.759	1.358	9.942
11				11.300		1873725.830	-216034.975	1.359	9.941
12				11.300		1873725.101	-216037.230	1.344	9.956
13				11.300		1873722.729	-216038.703	1.345	9.955
14				11.300		1873719.996	-216039.277	1.346	9.954
15				11.300		1873717.972	-216040.119	1.347	9.953
16				11.300		1873717.120	-216041.511	1.348	9.952
17				11.300		1873717.019	-216043.112	1.348	9.952
18				11.300		1873717.027	-216044.136	1.349	9.951
19				11.300		1873716.501	-216046.937	1.349	9.951
IC05				10.845		1873707.036	-216010.085	0.822	10.023
RE02	0.023	10	5.00	11.150	1200	1873671.366	-216050.112	0.200	10.950
IC06	0.024		5.00	10.850	600	1873701.164	-216050.801	0.720	10.130
RE01	0.023	10	5.00	11.150	150	1873672.015	-216019.405	0.774	10.376
1	0.024		5.00	10.850	450	1873701.477	-216014.753	0.782	10.068
2	0.024		5.00	10.850	600	1873701.764	-216036.529	0.855	9.995
3				11.150		1873687.525	-216053.019	0.323	10.827
4				10.845		1873707.435	-216027.846	0.855	9.990
21				11.150		1873675.946	-216051.038	0.300	10.850
23	0.010		5.00	11.312		1873700.662	-215967.711	0.922	10.390
*H1	0.061		5.00	11.720	600	1873697.243	-215899.290	1.000	10.720
*H4	0.019		5.00	11.704	450	1873701.039	-215922.805	1.224	10.480
*H5	0.010		5.00	11.621		1873701.714	-215927.875	1.192	10.429
*H6	0.010		5.00	11.561		1873701.221	-215947.719	1.172	10.389
24	0.010		5.00	11.179		1873700.185	-215987.683	0.829	10.350
*H2	0.018		5.00	12.150	450	1873728.882	-215907.183	0.450	11.700
*H3				12.150	450	1873728.881	-215922.791	0.610	11.540
25	0.007		5.00	11.012		1873701.042	-216002.885	0.749	10.263

Links (Input)

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	EX IC01	EX IC02	28.734	0.600	10.800	10.513	0.287	100.1	100	5.62	50.0
1.001	EX IC02	EX.IC03	31.109	0.600	10.513	10.306	0.207	150.3	150	6.26	49.4
1.002	EX.IC03	IC04	17.921	0.600	10.156	10.096	0.060	298.7	300	6.59	48.2
1.003	IC04	IC05	21.876	0.600	10.096	10.023	0.073	299.7	300	6.99	46.8
1.007	6	7	2.223	0.012	9.945	9.944	0.001	2223.2	300	7.75	44.4
1.008	7	8	2.223	0.012	9.944	9.943	0.001	2223.4	300	7.87	44.0
1.004	5	6	3.297	0.012	9.947	9.945	0.002	1648.5	300	7.63	40.8
1.010	11	12	3.669	0.012	9.960	9.956	0.004	917.3	300	8.17	43.7
1.019	20	IC07	32.187	0.012	10.383	9.840	0.543	59.3	225	9.14	37.7
1.009	8	9	1.791	0.012	9.943	9.942	0.001	1790.6	300	7.96	43.8
1.010_1	9	10	1.000	0.012	9.942	9.942	0.000	0.0	300	7.98	43.7
1.011	10	11	1.400	0.012	9.942	9.941	0.001	1400.1	300	8.04	43.5
1.022	IC07	22	12.759	0.012	9.840	9.716	0.124	102.9	100	9.44	40.0

Links (Input)

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.013	12	13	2.792	0.012	9.956	9.955	0.001	2792.2	300	8.34	42.7
1.014	13	14	2.793	0.012	9.955	9.954	0.001	2792.6	300	8.51	42.2
1.015	14	15	2.192	0.012	9.954	9.953	0.001	2192.2	300	8.63	41.9
1.016	15	16	1.632	0.012	9.953	9.952	0.001	1632.0	300	8.71	41.7
1.017	16	17	1.000	0.012	9.952	9.952	0.000	0.0	300	8.73	41.7
1.018	17	18	1.024	0.012	9.952	9.951	0.001	1024.0	300	8.77	41.6
1.019_1	18	19	1.000	0.012	9.951	9.951	0.000	0.0	300	8.78	41.5
1.020	19	20	1.000	0.012	9.951	9.951	0.000	0.0	300	8.80	41.5
1.004_1	IC05	4	17.765	0.018	10.026	9.990	0.036	493.5	2500	7.21	46.1
5.000	RE02	21	4.673	0.600	10.950	10.919	0.031	150.7	150	5.10	50.0
4.000	IC06	2	14.285	0.600	10.130	10.065	0.065	219.8	225	5.27	50.0
2.000	RE01	IC04	16.188	0.600	10.376	10.214	0.162	99.9	150	5.27	50.0
3.000	1	2	21.778	0.600	10.068	9.995	0.073	298.3	300	5.40	50.0
3.001	2	5	13.514	0.600	9.995	9.950	0.045	300.3	300	5.65	50.0
5.001	3	IC07	4.984	0.600	10.900	9.840	1.060	4.7	100	5.33	50.0
1.005	4	5	14.211	0.600	10.100	10.053	0.047	302.4	300	7.47	45.7
5.001_1	21	3	11.747	0.018	10.850	10.827	0.023	510.7	3000	5.30	50.0
1.004_2	*H6	23	20.000	0.018	10.480	10.390	0.090	222.2	1000	5.89	50.0
*2.000	*H1	*H4	23.819	0.600	10.720	10.482	0.238	100.1	150	5.40	50.0
*1.002	*H4	*H5	5.115	0.600	10.480	10.429	0.051	100.3	225	5.56	50.0
*1.003	*H5	*H6	19.850	0.018	10.429	10.389	0.040	496.3	1000	5.76	50.0
1.005_1	23	24	19.978	0.018	10.390	10.350	0.040	499.4	1000	6.09	50.0
1.006	24	25	15.226	0.018	10.400	10.266	0.134	113.6	2500	6.18	49.7
1.007_1	25	IC05	9.368	0.018	10.263	10.026	0.237	39.5	2500	6.21	49.5
*1.000	*H2	*H3	15.608	0.600	11.700	11.544	0.156	100.1	150	5.26	50.0
*1.001	*H3	*H4	27.842	0.600	11.540	10.480	1.060	26.3	150	5.49	50.0

SuDS CarriersTime to
Half Empty (mins)1
1
1
1
1
1
1Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	✓	Check Discharge Rate(s)	x
Rainfall Events	Singular	Drain Down Time (mins)	10080	Check Discharge Volume	x
Summer CV	1.000	Additional Storage (m³/ha)	0.0		
Analysis Speed	Detailed	Starting Level (m)	10.410		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	30	40	0	0
10	40	0	0	100	45	0	0

Node IC07 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	9.840	Product Number	CTL-SHE-0032-5000-1000-5000
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	0.5	Min Node Diameter (mm)	1200

Node *H4 Online Orifice Control

Flap Valve	x	Design Depth (m)	1.000	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Flow (l/s)	3.0		
Invert Level (m)	10.480	Diameter (m)	0.038		

Node 6 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 7 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 8 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 9 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 10 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 11 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360



Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 12 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 13 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 14 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 15 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 16 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 17 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 18 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360



Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 19 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 20 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	10.050
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	9360

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	14.9	14.9	1.250	32.7	42.6

Node 2 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	10.315	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	14.800	Inf Depth (m)	0.305
Porosity	0.30	Length (m)	16.600		

Node 1 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	10.315	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	14.800	Inf Depth (m)	0.305
Porosity	0.30	Length (m)	16.600		

Node *H1 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	10.720	Slope (1:X)	34.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	262	Depth (m)	
Safety Factor	2.0	Width (m)	12.000	Inf Depth (m)	0.125
Porosity	0.30	Length (m)	31.000		

Node IC06 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	10.315	Slope (1:X)	1000.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		Depth (m)	
Safety Factor	2.0	Width (m)	14.800	Inf Depth (m)	0.305
Porosity	0.30	Length (m)	16.600		

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX IC01	10	10.846	0.046	2.7	0.0132	0.0000	OK
15 minute summer	EX IC02	11	10.570	0.057	4.6	0.0162	0.0000	OK
720 minute summer	EX.IC03	690	10.493	0.337	0.8	0.0952	0.0000	SURCHARGED
720 minute summer	IC04	690	10.493	0.397	1.4	0.1122	0.0000	SURCHARGED
720 minute summer	5	690	10.493	0.546	2.1	0.0000	0.0000	SURCHARGED
720 minute summer	20	690	10.493	0.542	0.5	7.9961	0.0000	OK
720 minute summer	IC07	690	10.493	0.653	0.6	0.7380	0.0000	SURCHARGED
15 minute summer	22	1	9.794	0.078	5.7	0.0000	0.0000	OK
720 minute summer	6	690	10.493	0.548	2.6	7.9960	0.0000	SURCHARGED
720 minute summer	7	690	10.493	0.549	2.4	7.9960	0.0000	SURCHARGED
720 minute summer	8	690	10.493	0.550	2.2	7.9960	0.0000	SURCHARGED
720 minute summer	9	690	10.493	0.551	2.1	7.9960	0.0000	SURCHARGED
720 minute summer	10	690	10.493	0.551	1.9	7.9960	0.0000	SURCHARGED
720 minute summer	11	690	10.493	0.552	1.7	7.9960	0.0000	SURCHARGED
720 minute summer	12	690	10.493	0.537	1.5	7.9960	0.0000	SURCHARGED
720 minute summer	13	690	10.493	0.538	1.4	7.9960	0.0000	SURCHARGED
720 minute summer	14	690	10.493	0.539	1.2	7.9961	0.0000	SURCHARGED
720 minute summer	15	690	10.493	0.540	1.1	7.9961	0.0000	SURCHARGED
720 minute summer	16	690	10.493	0.541	1.0	7.9961	0.0000	SURCHARGED
720 minute summer	17	690	10.493	0.541	0.9	7.9961	0.0000	SURCHARGED
720 minute summer	18	690	10.493	0.542	0.8	7.9961	0.0000	SURCHARGED
720 minute summer	19	690	10.493	0.542	0.6	7.9961	0.0000	SURCHARGED
720 minute summer	IC05	690	10.493	0.470	3.1	0.0000	0.0000	OK
15 minute summer	RE02	10	10.999	0.049	3.2	0.0557	0.0000	OK
720 minute summer	IC06	690	10.493	0.363	0.6	12.5622	0.0000	SURCHARGED
720 minute summer	RE01	690	10.493	0.117	0.6	0.0021	0.0000	OK
720 minute summer	1	690	10.493	0.425	0.6	12.5272	0.0000	SURCHARGED
720 minute summer	2	690	10.493	0.498	0.9	12.6008	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX IC01	1.000	EX IC02	2.7	0.656	0.442	0.1169	
15 minute summer	EX IC02	1.001	EX.IC03	4.5	0.432	0.310	0.3186	
720 minute summer	EX.IC03	1.002	IC04	0.8	0.011	0.012	1.2620	
720 minute summer	IC04	1.003	IC05	1.4	0.019	0.021	1.5405	
720 minute summer	5	1.004	6	1.7	0.013	0.102	0.5252	
720 minute summer	20	1.019	IC07	0.5	0.066	0.008	0.9486	
720 minute summer	IC07	1.022	22	0.4	0.411	0.075	0.0128	102.8
720 minute summer	6	1.007	7	2.4	0.018	0.168	0.3561	
720 minute summer	7	1.008	8	2.2	0.017	0.155	0.3573	
720 minute summer	8	1.009	9	2.1	0.015	0.128	0.2891	
720 minute summer	9	1.010_1	10	1.9	0.014	0.039	0.1617	
720 minute summer	10	1.011	11	1.7	0.013	0.093	0.2268	
720 minute summer	11	1.010	12	1.5	0.013	0.068	0.5594	
720 minute summer	12	1.013	13	1.4	0.011	0.106	0.4296	
720 minute summer	13	1.014	14	1.2	0.010	0.097	0.4314	
720 minute summer	14	1.015	15	1.1	0.009	0.077	0.3398	
720 minute summer	15	1.016	16	1.0	0.008	0.059	0.2539	
720 minute summer	16	1.017	17	0.9	0.007	0.018	0.1559	
720 minute summer	17	1.018	18	0.8	0.006	0.036	0.1599	
720 minute summer	18	1.019_1	19	0.6	0.005	0.013	0.1564	
720 minute summer	19	1.020	20	0.5	0.004	0.011	0.1564	
720 minute summer	IC05	1.004_1	4	2.5	0.001	0.001	34.0555	
15 minute summer	RE02	5.000	21	3.1	0.642	0.218	0.0229	
720 minute summer	IC06	4.000	2	-0.2	-0.004	-0.005	0.5681	
720 minute summer	RE01	2.000	IC04	0.6	0.040	0.033	0.2614	
720 minute summer	1	3.000	2	-0.2	-0.002	-0.003	1.5336	
720 minute summer	2	3.001	5	-0.5	-0.007	-0.008	0.9516	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.07%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	3	256	10.911	0.084	0.8	0.0000	0.0000	OK
720 minute summer	4	690	10.493	0.503	2.5	0.0000	0.0000	SURCHARGED
480 minute summer	21	256	10.911	0.061	0.8	0.0000	0.0000	OK
720 minute summer	23	690	10.493	0.103	2.3	0.0000	0.0000	OK
180 minute summer	*H1	116	10.980	0.260	3.4	4.2276	0.0000	SURCHARGED
180 minute summer	*H4	116	10.978	0.498	2.1	0.0792	0.0000	SURCHARGED
60 minute summer	*H5	35	10.495	0.066	2.7	0.0000	0.0000	OK
60 minute summer	*H6	35	10.495	0.106	3.3	0.0000	0.0000	OK
720 minute summer	24	690	10.493	0.143	2.3	0.0000	0.0000	OK
15 minute summer	*H2	10	11.737	0.037	2.3	0.0059	0.0000	OK
15 minute summer	*H3	11	11.566	0.026	2.3	0.0041	0.0000	OK
720 minute summer	25	690	10.493	0.230	2.1	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)
480 minute summer	3	5.001	IC07	0.7	0.149	0.026	0.0207	
720 minute summer	4	1.005	5	2.1	0.030	0.033	1.0007	
480 minute summer	21	5.001_1	3	0.8	0.009	0.001	2.7540	
720 minute summer	23	1.005_1	24	2.1	0.024	0.000	3.3733	
180 minute summer	*H1	*2.000	*H4	1.7	0.278	0.095	0.4193	
180 minute summer	*H4	*1.002	*H5	2.1	0.615	0.040	0.0322	
60 minute summer	*H5	*1.003	*H6	2.6	0.029	0.000	2.1584	
60 minute summer	*H6	1.004_2	23	3.3	0.121	0.000	0.6858	
720 minute summer	24	1.006	25	2.0	0.006	0.000	7.4427	
15 minute summer	*H2	*1.000	*H3	2.3	0.683	0.128	0.0518	
15 minute summer	*H3	*1.001	*H4	2.2	0.190	0.064	0.2732	
720 minute summer	25	1.007_1	IC05	1.8	0.002	0.000	11.9524	

Results for 10 year +40% CC Critical Storm Duration. Lowest mass balance: 99.28%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX IC01	12	11.499	0.699	11.3	0.1979	0.0000	FLOOD RISK
15 minute summer	EX IC02	11	10.757	0.244	16.3	0.0689	0.0000	SURCHARGED
10080 minute summer	EX.IC03	6720	10.693	0.537	0.3	0.1519	0.0000	SURCHARGED
10080 minute summer	IC04	6720	10.693	0.597	0.5	0.1689	0.0000	SURCHARGED
10080 minute summer	5	6720	10.693	0.746	1.0	0.0000	0.0000	SURCHARGED
10080 minute summer	20	6720	10.693	0.742	0.5	12.5272	0.0000	SURCHARGED
10080 minute summer	IC07	6720	10.693	0.853	0.5	0.9645	0.0000	SURCHARGED
15 minute summer	22	1	9.794	0.078	5.7	0.0000	0.0000	OK
10080 minute summer	6	6720	10.693	0.748	1.3	12.5271	0.0000	SURCHARGED
10080 minute summer	7	6720	10.693	0.749	1.2	12.5271	0.0000	SURCHARGED
10080 minute summer	8	6720	10.693	0.750	1.2	12.5271	0.0000	SURCHARGED
10080 minute summer	9	6720	10.693	0.751	1.1	12.5271	0.0000	SURCHARGED
10080 minute summer	10	6720	10.693	0.751	1.0	12.5271	0.0000	SURCHARGED
10080 minute summer	11	6720	10.693	0.752	1.0	12.5271	0.0000	SURCHARGED
10080 minute summer	12	6720	10.693	0.737	0.9	12.5272	0.0000	SURCHARGED
10080 minute summer	13	6720	10.693	0.738	0.8	12.5272	0.0000	SURCHARGED
10080 minute summer	14	6720	10.693	0.739	0.7	12.5271	0.0000	SURCHARGED
10080 minute summer	15	6720	10.693	0.740	0.7	12.5271	0.0000	SURCHARGED
10080 minute summer	16	6720	10.693	0.741	0.6	12.5271	0.0000	SURCHARGED
10080 minute summer	17	6720	10.693	0.741	0.6	12.5272	0.0000	SURCHARGED
10080 minute summer	18	6720	10.693	0.742	0.6	12.5272	0.0000	SURCHARGED
10080 minute summer	19	6720	10.693	0.742	0.6	12.5272	0.0000	SURCHARGED
10080 minute summer	IC05	6720	10.693	0.670	1.4	0.0000	0.0000	FLOOD RISK
15 minute summer	RE02	10	11.065	0.115	13.0	0.1305	0.0000	OK
10080 minute summer	IC06	6720	10.693	0.563	0.2	27.3785	0.0000	FLOOD RISK
10080 minute summer	RE01	6720	10.693	0.317	0.2	0.0057	0.0000	SURCHARGED
10080 minute summer	1	6720	10.693	0.625	0.2	27.3188	0.0000	FLOOD RISK
10080 minute summer	2	6720	10.693	0.698	0.3	27.4169	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX IC01	1.000	EX IC02	9.1	1.168	1.514	0.2248	
15 minute summer	EX IC02	1.001	EX.IC03	15.7	0.892	1.088	0.5477	
10080 minute summer	EX.IC03	1.002	IC04	0.3	0.004	0.005	1.2620	
10080 minute summer	IC04	1.003	IC05	0.5	0.007	0.008	1.5405	
10080 minute summer	5	1.004	6	0.9	0.005	0.055	0.9806	
10080 minute summer	20	1.019	IC07	0.5	0.071	0.009	1.2801	
10080 minute summer	IC07	1.022	22	0.5	0.426	0.084	0.0139	420.2
10080 minute summer	6	1.007	7	1.2	0.007	0.085	0.6638	
10080 minute summer	7	1.008	8	1.2	0.007	0.081	0.6655	
10080 minute summer	8	1.009	9	1.1	0.006	0.068	0.5380	
10080 minute summer	9	1.010_1	10	1.0	0.006	0.021	0.3008	
10080 minute summer	10	1.011	11	1.0	0.005	0.052	0.4216	
10080 minute summer	11	1.010	12	0.9	0.006	0.039	1.0570	
10080 minute summer	12	1.013	13	0.8	0.006	0.063	0.8098	
10080 minute summer	13	1.014	14	0.7	0.006	0.057	0.8122	
10080 minute summer	14	1.015	15	0.7	0.005	0.045	0.6391	
10080 minute summer	15	1.016	16	0.6	0.005	0.035	0.4771	
10080 minute summer	16	1.017	17	0.6	0.005	0.012	0.2927	
10080 minute summer	17	1.018	18	0.6	0.005	0.026	0.3002	
10080 minute summer	18	1.019_1	19	0.6	0.005	0.011	0.2935	
10080 minute summer	19	1.020	20	0.5	0.005	0.011	0.2935	
10080 minute summer	IC05	1.004_1	4	1.1	0.001	0.000	55.4293	
15 minute summer	RE02	5.000	21	12.9	0.928	0.894	0.0649	
10080 minute summer	IC06	4.000	2	0.1	0.002	0.002	0.5681	
10080 minute summer	RE01	2.000	IC04	0.2	0.013	0.011	0.2850	
10080 minute summer	1	3.000	2	0.1	0.002	0.002	1.5336	
10080 minute summer	2	3.001	5	0.3	0.004	0.004	0.9516	

Results for 10 year +40% CC Critical Storm Duration. Lowest mass balance: 99.28%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	3	20	10.940	0.113	9.5	0.0000	0.0000	OK
10080 minute summer	4	6720	10.693	0.703	1.1	0.0000	0.0000	FLOOD RISK
30 minute summer	21	20	10.940	0.090	11.8	0.0000	0.0000	OK
10080 minute summer	23	6720	10.693	0.303	1.1	0.0000	0.0000	OK
120 minute summer	*H1	102	11.405	0.685	20.3	28.9184	0.0000	SURCHARGED
120 minute summer	*H4	100	11.402	0.922	8.9	0.1466	0.0000	SURCHARGED
10080 minute summer	*H5	6720	10.693	0.264	1.1	0.0000	0.0000	OK
10080 minute summer	*H6	6720	10.693	0.304	1.4	0.0000	0.0000	OK
10080 minute summer	24	6720	10.693	0.343	1.1	0.0000	0.0000	OK
15 minute summer	*H2	10	11.781	0.081	9.4	0.0129	0.0000	OK
15 minute summer	*H3	10	11.593	0.053	9.3	0.0084	0.0000	OK
10080 minute summer	25	6720	10.693	0.430	1.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	3	5.001	IC07	8.5	1.356	0.302	0.0267	
10080 minute summer	4	1.005	5	1.0	0.014	0.016	1.0007	
30 minute summer	21	5.001_1	3	9.5	0.077	0.009	3.9289	
10080 minute summer	23	1.005_1	24	1.0	0.010	0.000	12.7191	
120 minute summer	*H1	*2.000	*H4	-5.9	0.368	-0.334	0.4193	
120 minute summer	*H4	*1.002	*H5	3.0	0.777	0.059	0.1242	
10080 minute summer	*H5	*1.003	*H6	1.3	0.009	0.000	10.4544	
10080 minute summer	*H6	1.004_2	23	1.0	0.046	0.000	9.2659	
10080 minute summer	24	1.006	25	1.0	0.003	0.000	19.8161	
15 minute summer	*H2	*1.000	*H3	9.3	0.990	0.524	0.1468	
15 minute summer	*H3	*1.001	*H4	9.3	0.676	0.266	0.3222	
10080 minute summer	25	1.007_1	IC05	0.9	0.001	0.000	21.6870	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX IC01	10	11.500	0.700	14.7	0.1981	0.8728	FLOOD
15 minute summer	EX IC02	11	10.862	0.349	18.6	0.0988	0.0000	SURCHARGED
10080 minute summer	EX.IC03	6900	10.755	0.599	0.4	0.1695	0.0000	SURCHARGED
10080 minute summer	IC04	6900	10.755	0.659	0.7	0.1865	0.0000	SURCHARGED
10080 minute summer	5	6900	10.755	0.808	1.1	0.0000	0.0000	SURCHARGED
10080 minute summer	20	6900	10.755	0.804	0.6	14.0513	0.0000	SURCHARGED
10080 minute summer	IC07	6900	10.755	0.915	0.6	1.0349	0.0000	FLOOD RISK
15 minute summer	22	1	9.794	0.078	5.7	0.0000	0.0000	OK
10080 minute summer	6	6900	10.755	0.810	1.5	14.0513	0.0000	SURCHARGED
10080 minute summer	7	6900	10.755	0.811	1.4	14.0513	0.0000	SURCHARGED
10080 minute summer	8	6900	10.755	0.812	1.3	14.0513	0.0000	SURCHARGED
10080 minute summer	9	6900	10.755	0.813	1.2	14.0513	0.0000	SURCHARGED
10080 minute summer	10	6900	10.755	0.813	1.1	14.0513	0.0000	SURCHARGED
10080 minute summer	11	6900	10.755	0.814	1.1	14.0513	0.0000	SURCHARGED
10080 minute summer	12	6900	10.755	0.799	1.0	14.0513	0.0000	SURCHARGED
10080 minute summer	13	6900	10.755	0.800	0.9	14.0513	0.0000	SURCHARGED
10080 minute summer	14	6900	10.755	0.801	0.8	14.0513	0.0000	SURCHARGED
10080 minute summer	15	6900	10.755	0.802	0.7	14.0513	0.0000	SURCHARGED
10080 minute summer	16	6900	10.755	0.803	0.6	14.0513	0.0000	SURCHARGED
10080 minute summer	17	6900	10.755	0.803	0.6	14.0513	0.0000	SURCHARGED
10080 minute summer	18	6900	10.755	0.804	0.6	14.0513	0.0000	SURCHARGED
10080 minute summer	19	6900	10.755	0.804	0.6	14.0513	0.0000	SURCHARGED
10080 minute summer	IC05	6900	10.755	0.732	1.5	0.0000	0.0000	FLOOD RISK
15 minute summer	RE02	10	11.094	0.144	16.9	0.1630	0.0000	OK
10080 minute summer	IC06	6900	10.755	0.625	0.3	31.9825	0.0000	FLOOD RISK
10080 minute summer	RE01	6900	10.755	0.379	0.3	0.0068	0.0000	SURCHARGED
10080 minute summer	1	6900	10.755	0.687	0.3	31.9148	0.0000	FLOOD RISK
10080 minute summer	2	6900	10.755	0.760	0.4	32.0207	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX IC01	1.000	EX IC02	9.0	1.148	1.489	0.2248	
15 minute summer	EX IC02	1.001	EX.IC03	18.0	1.021	1.244	0.5477	
10080 minute summer	EX.IC03	1.002	IC04	0.4	0.006	0.006	1.2620	
10080 minute summer	IC04	1.003	IC05	0.7	0.010	0.011	1.5405	
10080 minute summer	5	1.004	6	1.0	0.006	0.060	1.1508	
10080 minute summer	20	1.019	IC07	0.6	0.071	0.009	1.2801	
10080 minute summer	IC07	1.022	22	0.5	0.429	0.087	0.0142	484.1
10080 minute summer	6	1.007	7	1.4	0.007	0.098	0.7787	
10080 minute summer	7	1.008	8	1.3	0.007	0.091	0.7806	
10080 minute summer	8	1.009	9	1.2	0.006	0.076	0.6309	
10080 minute summer	9	1.010_1	10	1.1	0.006	0.024	0.3527	
10080 minute summer	10	1.011	11	1.1	0.006	0.058	0.4943	
10080 minute summer	11	1.010	12	1.0	0.006	0.043	1.2435	
10080 minute summer	12	1.013	13	0.9	0.006	0.067	0.9522	
10080 minute summer	13	1.014	14	0.8	0.006	0.060	0.9549	
10080 minute summer	14	1.015	15	0.7	0.006	0.047	0.7512	
10080 minute summer	15	1.016	16	0.6	0.006	0.035	0.5607	
10080 minute summer	16	1.017	17	0.6	0.005	0.012	0.3440	
10080 minute summer	17	1.018	18	0.6	0.005	0.027	0.3527	
10080 minute summer	18	1.019_1	19	0.6	0.005	0.012	0.3448	
10080 minute summer	19	1.020	20	0.6	0.005	0.012	0.3448	
10080 minute summer	IC05	1.004_1	4	1.3	0.001	0.000	62.9440	
15 minute summer	RE02	5.000	21	16.7	1.018	1.158	0.0758	
10080 minute summer	IC06	4.000	2	0.1	0.002	0.003	0.5681	
10080 minute summer	RE01	2.000	IC04	0.3	0.017	0.017	0.2850	
10080 minute summer	1	3.000	2	0.1	0.001	0.002	1.5336	
10080 minute summer	2	3.001	5	0.3	0.004	0.004	0.9516	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	3	20	10.953	0.126	13.0	0.0000	0.0000	OK
10080 minute summer	4	6900	10.755	0.765	1.3	0.0000	0.0000	FLOOD RISK
30 minute summer	21	20	10.953	0.103	15.4	0.0000	0.0000	OK
10080 minute summer	23	6900	10.755	0.365	1.2	0.0000	0.0000	OK
120 minute summer	*H1	114	11.528	0.808	26.6	40.2355	0.0000	FLOOD RISK
30 minute summer	*H4	19	11.565	1.085	22.3	0.1725	0.0000	FLOOD RISK
10080 minute summer	*H5	6900	10.755	0.326	1.5	0.0000	0.0000	OK
10080 minute summer	*H6	6900	10.755	0.366	1.2	0.0000	0.0000	OK
10080 minute summer	24	6900	10.755	0.405	1.1	0.0000	0.0000	OK
15 minute summer	*H2	10	11.797	0.097	12.3	0.0154	0.0000	OK
15 minute summer	*H3	12	11.645	0.105	12.2	0.0167	0.0000	OK
10080 minute summer	25	6900	10.755	0.492	1.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	3	5.001	IC07	11.8	1.724	0.417	0.0299	
10080 minute summer	4	1.005	5	1.1	0.015	0.017	1.0007	
30 minute summer	21	5.001_1	3	13.0	0.084	0.012	4.4908	
10080 minute summer	23	1.005_1	24	1.0	0.010	0.000	16.6035	
120 minute summer	*H1	*2.000	*H4	-8.2	-0.465	-0.462	0.4193	
30 minute summer	*H4	*1.002	*H5	4.9	0.861	0.095	0.0902	
10080 minute summer	*H5	*1.003	*H6	1.1	0.007	0.000	14.0249	
10080 minute summer	*H6	1.004_2	23	1.1	0.045	0.000	12.6691	
10080 minute summer	24	1.006	25	1.0	0.002	0.000	24.4085	
15 minute summer	*H2	*1.000	*H3	12.2	1.049	0.685	0.1865	
15 minute summer	*H3	*1.001	*H4	11.2	0.784	0.323	0.4280	
10080 minute summer	25	1.007_1	IC05	0.9	0.001	0.000	25.1721	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.40%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	EX IC01	16	11.500	0.700	17.5	0.1981	2.3977	FLOOD
15 minute summer	EX IC02	11	10.981	0.468	20.8	0.1325	0.0000	SURCHARGED
4320 minute summer	EX.IC03	3960	10.845	0.689	0.9	0.1950	0.0000	FLOOD RISK
4320 minute summer	IC04	3960	10.845	0.749	1.5	0.2120	0.0000	SURCHARGED
4320 minute summer	5	3960	10.845	0.898	1.6	0.0000	0.0000	SURCHARGED
4320 minute summer	20	3960	10.845	0.894	0.5	16.3534	0.0000	SURCHARGED
4320 minute summer	IC07	3960	10.845	1.005	0.6	1.1366	0.0000	FLOOD RISK
15 minute summer	22	1	9.794	0.078	5.7	0.0000	0.0000	OK
4320 minute summer	6	3960	10.845	0.900	2.6	16.3533	0.0000	SURCHARGED
4320 minute summer	7	3960	10.845	0.901	2.4	16.3533	0.0000	SURCHARGED
4320 minute summer	8	3960	10.845	0.902	2.2	16.3534	0.0000	SURCHARGED
4320 minute summer	9	3960	10.845	0.903	2.1	16.3534	0.0000	SURCHARGED
4320 minute summer	10	3960	10.845	0.903	1.9	16.3534	0.0000	SURCHARGED
4320 minute summer	11	3960	10.845	0.904	1.7	16.3534	0.0000	SURCHARGED
4320 minute summer	12	3960	10.845	0.889	1.5	16.3534	0.0000	SURCHARGED
4320 minute summer	13	3960	10.845	0.890	1.3	16.3534	0.0000	SURCHARGED
4320 minute summer	14	3960	10.845	0.891	1.1	16.3534	0.0000	SURCHARGED
4320 minute summer	15	3960	10.845	0.892	0.9	16.3534	0.0000	SURCHARGED
4320 minute summer	16	3960	10.845	0.893	0.8	16.3534	0.0000	SURCHARGED
4320 minute summer	17	3960	10.845	0.893	0.6	16.3534	0.0000	SURCHARGED
4320 minute summer	18	3960	10.845	0.894	0.6	16.3534	0.0000	SURCHARGED
4320 minute summer	19	3960	10.845	0.894	0.5	16.3534	0.0000	SURCHARGED
4320 minute summer	IC05	3960	10.845	0.822	2.5	0.0000	1.6980	FLOOD
15 minute summer	RE02	10	11.146	0.196	21.9	0.2218	0.0000	FLOOD RISK
4320 minute summer	IC06	3960	10.845	0.715	0.6	38.6413	0.0000	FLOOD RISK
4320 minute summer	RE01	3960	10.845	0.469	0.6	0.0084	0.0000	SURCHARGED
4320 minute summer	1	3960	10.845	0.777	0.6	38.5625	0.0000	FLOOD RISK
4320 minute summer	2	3960	10.845	0.850	0.7	38.6794	0.0000	FLOOD RISK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	EX IC01	1.000	EX IC02	8.7	1.117	1.448	0.2248	
15 minute summer	EX IC02	1.001	EX.IC03	20.1	1.140	1.390	0.5477	
4320 minute summer	EX.IC03	1.002	IC04	0.9	0.013	0.014	1.2620	
4320 minute summer	IC04	1.003	IC05	1.5	0.021	0.023	1.5405	
4320 minute summer	5	1.004	6	1.6	0.007	0.096	1.4210	
4320 minute summer	20	1.019	IC07	0.5	0.016	0.008	1.2801	
4320 minute summer	IC07	1.022	22	0.5	0.434	0.090	0.0147	398.0
4320 minute summer	6	1.007	7	2.4	0.010	0.167	0.9613	
4320 minute summer	7	1.008	8	2.2	0.009	0.154	0.9634	
4320 minute summer	8	1.009	9	2.1	0.008	0.127	0.7784	
4320 minute summer	9	1.010_1	10	1.9	0.007	0.039	0.4351	
4320 minute summer	10	1.011	11	1.7	0.007	0.093	0.6098	
4320 minute summer	11	1.010	12	1.5	0.006	0.067	1.5402	
4320 minute summer	12	1.013	13	1.3	0.006	0.102	1.1786	
4320 minute summer	13	1.014	14	1.1	0.006	0.087	1.1816	
4320 minute summer	14	1.015	15	0.9	0.005	0.064	0.9294	
4320 minute summer	15	1.016	16	0.8	0.005	0.045	0.6935	
4320 minute summer	16	1.017	17	0.6	0.005	0.012	0.4254	
4320 minute summer	17	1.018	18	0.6	0.005	0.026	0.4361	
4320 minute summer	18	1.019_1	19	0.5	0.004	0.011	0.4263	
4320 minute summer	19	1.020	20	0.5	0.004	0.010	0.4263	
4320 minute summer	IC05	1.004_1	4	1.9	0.001	0.001	74.5357	
15 minute summer	RE02	5.000	21	21.7	1.233	1.504	0.0797	
4320 minute summer	IC06	4.000	2	0.1	0.003	0.003	0.5681	
4320 minute summer	RE01	2.000	IC04	0.6	0.034	0.033	0.2850	
4320 minute summer	1	3.000	2	0.1	0.001	0.002	1.5336	
4320 minute summer	2	3.001	5	0.3	0.004	0.004	0.9516	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.40%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	3	20	10.970	0.143	17.1	0.0000	0.0000	OK
4320 minute summer	4	3960	10.845	0.855	1.9	0.0000	0.7071	FLOOD
30 minute summer	21	20	10.970	0.120	20.1	0.0000	0.0000	OK
4320 minute summer	23	3960	10.845	0.455	1.9	0.0000	0.0000	OK
120 minute summer	*H1	122	11.674	0.954	35.0	55.8977	0.0000	FLOOD RISK
30 minute summer	*H4	18	11.704	1.224	27.5	0.1946	0.6376	FLOOD
4320 minute summer	*H5	3960	10.845	0.416	2.0	0.0000	0.0000	OK
4320 minute summer	*H6	3960	10.845	0.456	2.1	0.0000	0.0000	OK
4320 minute summer	24	3960	10.845	0.495	1.8	0.0000	0.0000	OK
15 minute summer	*H2	11	12.018	0.318	15.9	0.0505	0.0000	FLOOD RISK
15 minute summer	*H3	12	11.901	0.361	14.6	0.0574	0.0000	FLOOD RISK
4320 minute summer	25	3960	10.845	0.582	1.5	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)
30 minute summer	3	5.001	IC07	15.4	2.071	0.546	0.0342	
4320 minute summer	4	1.005	5	1.5	0.021	0.024	1.0007	
30 minute summer	21	5.001_1	3	17.1	0.100	0.015	5.2679	
4320 minute summer	23	1.005_1	24	1.6	0.006	0.000	23.0385	
120 minute summer	*H1	*2.000	*H4	-11.2	-0.637	-0.631	0.4193	
30 minute summer	*H4	*1.002	*H5	3.3	0.854	0.063	0.1344	
4320 minute summer	*H5	*1.003	*H6	1.9	0.009	0.000	20.0006	
4320 minute summer	*H6	1.004_2	23	1.7	0.019	0.000	18.4093	
4320 minute summer	24	1.006	25	1.4	0.002	0.000	31.6720	
15 minute summer	*H2	*1.000	*H3	14.6	1.078	0.820	0.2748	
15 minute summer	*H3	*1.001	*H4	13.9	0.790	0.399	0.4902	
4320 minute summer	25	1.007_1	IC05	1.2	0.001	0.000	30.5944	