

CAUSEWAY	Banners Gate Limited	File: 22166 - STORM & FOUL NET	Page 1
		Network: Storm Network 1	22166 - Papermills
		Liam Jones	Storm Network 1
		30/07/2024	100yr + CC

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)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	6.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	500.0		

Circular Default Sewer Type Link Type

Shape	Circular	Barrels	1	Auto Increment (mm)	75	Follow Ground	x	
Available Diameters (mm)								
100 150								
Shape	Open User Defined	Auto Increment (mm)	150					
Barrels	1	Follow Ground	x					
Available Diameters (mm)								
1800								
Width / Total	Depth / Total	Width / Total	Depth / Total	Width / Total	Depth / Total	Width / Total	Depth / Total	
0.000	1.000	3.500	0.000	5.100	0.000	8.000	1.000	
Shape	Closed Rectangular	Width (mm)	1200	Follow Ground	x			
Barrels	1	Auto Increment (mm)	150					
Available Diameters (mm)								
800								
Shape	Open User Defined	Auto Increment (mm)	150	Velocity	Manning			
Barrels	1	Follow Ground	x	ks (mm) / n	0.045			
Available Diameters (mm)								
1000								
Width / Total	Depth / Total	Width / Total	Depth / Total	Width / Total	Depth / Total	Width / Total	Depth / Total	
0.000	1.000	1.000	0.000	2.000	0.000	3.000	1.000	
Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)
02	0.076	6.00	69.611	1350		379402.895	407694.463	1.148
04	0.039	6.00	69.400	1350		379384.061	407712.000	1.088
06	0.059	6.00	69.105	1350		379411.838	407741.492	1.106
08	0.080	6.00	69.219	1350		379407.549	407747.041	1.250
GOYT1	0.000	6.00	69.450	1		379394.550	407736.713	1.550
GOYT2	0.000		68.700	1		379326.093	407665.523	1.350
10	0.112	6.00	69.013	1350		379272.295	407603.892	1.463
12	0.081	6.00	68.589	1350		379293.426	407623.287	1.364
14	0.077	6.00	69.768	1350		379308.537	407627.739	2.718
GOYT3	0.000		68.400	1		379319.518	407628.260	1.400
16	0.086	6.00	69.768	1350		379424.095	407663.478	1.468

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Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)
18	0.194	6.00	69.109	1350		379379.184	407627.744	1.509
20	0.172	6.00	68.129	1350		379340.500	407612.296	1.204
GOYT4	0.000		68.150	1		379330.790	407598.779	1.300
22	0.072	6.00	69.392	1350		379254.590	407560.937	1.517
24	0.179	6.00	69.178	1350		379268.637	407542.639	1.528
26	0.226	6.00	68.920	1350		379281.412	407520.124	1.620
28	0.170	6.00	67.700	1350		379339.200	407536.755	1.275
GOYT5	0.000		67.650	1		379353.277	407537.718	1.300
GOYTHW1	0.000		67.300	1		379369.220	407492.440	1.300
30	0.082	6.00	67.480	1350		379313.849	407469.585	1.327
32	0.107	6.00	67.600	1350		379361.559	407484.534	1.657
34	0.062	6.00	68.506	1350		379443.043	407641.238	0.381
36	0.113	6.00	68.506	1350		379412.553	407584.157	1.506
38	0.033	6.00	68.661	1350		379411.028	407589.944	1.686
40	0.158	6.00	68.661	1350		379456.574	407601.946	1.961
42	0.112	6.00	68.673	1350		379471.810	407557.700	2.123
44	0.000	6.00	68.069	1350		379445.727	407548.190	1.619
46	0.167	6.00	67.802	1500		379439.621	407535.117	1.652
48	0.148	6.00	67.476	1500		379445.904	407518.168	1.598
50	0.277	6.00	67.450	1500		379384.083	407492.055	1.740
52	0.000	6.00	67.500	800	1500	379372.383	407484.470	1.900
HW	0.000	6.00	66.500	1		379388.443	407445.662	1.000
CC54	0.000		66.500	3000		379426.866	407387.217	1.700
OUTFALL	0.000		68.500	1		379421.812	407372.365	3.900

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	02	04	25.734	0.600	68.463	68.312	0.151	170.4	225	6.43	46.2
1.001	04	06	40.513	0.600	68.312	68.074	0.238	170.2	225	7.11	43.4
1.003	06	08	7.013	0.600	67.999	67.969	0.030	233.8	300	7.22	44.6
1.004	08	GOYT1	16.602	0.600	67.969	67.900	0.069	240.6	300	7.49	44.1
1.005	GOYT1	GOYT2	98.764	0.045	67.900	67.350	0.550	179.6	1300	8.70	41.4
1.006	GOYT2	GOYT3	37.839	0.045	67.350	67.000	0.350	108.1	1300	9.05	40.5
2.000	10	12	28.683	0.600	67.550	67.225	0.325	88.3	225	6.34	45.9
2.001	12	14	15.753	0.600	67.225	67.125	0.100	157.5	225	6.60	45.4
2.002	14	GOYT3	10.993	0.600	67.050	67.000	0.050	219.9	300	6.77	45.1
1.007	GOYT3	GOYT4	31.562	0.045	67.000	66.850	0.150	210.4	1300	9.47	39.9
3.000	16	18	57.393	0.600	68.300	67.675	0.625	91.8	225	6.70	44.6
3.001	18	20	41.654	0.600	67.600	66.925	0.675	61.7	300	7.05	43.3
3.002	20	GOYT4	16.643	0.600	66.925	66.850	0.075	221.9	300	7.31	43.0
1.008	GOYT4	GOYT5	65.070	0.045	66.850	66.350	0.500	130.1	1300	10.14	38.6
4.000	22	24	23.068	0.600	67.875	67.650	0.225	102.5	300	6.25	45.7
4.001	24	26	25.887	0.600	67.650	67.375	0.275	94.1	300	6.51	45.1
4.002	26	28	60.134	0.600	67.300	66.425	0.875	68.7	375	6.97	43.2
4.003	28	GOYT5	14.110	0.600	66.425	66.350	0.075	188.1	375	7.15	42.9
1.009	GOYT5	GOYTHW1	48.003	0.045	66.350	66.000	0.350	137.2	1300	10.26	37.9
1.010	GOYTHW1	52	8.575	0.600	66.000	65.600	0.400	21.4	600	10.28	37.8
5.000	30	32	49.997	0.600	66.153	65.943	0.210	238.1	300	6.82	39.8
5.001	32	52	10.824	0.600	65.943	65.900	0.043	251.7	300	7.00	39.6
8.000	34	40	41.557	0.600	68.125	66.850	1.275	32.6	225	6.30	45.2
9.000	36	38	5.985	0.600	67.000	66.975	0.025	239.4	300	6.10	46.6
9.001	38	40	47.101	0.600	66.975	66.775	0.200	235.5	300	6.87	45.2
8.001	40	42	46.796	0.600	66.700	66.550	0.150	312.0	375	7.63	44.0
8.002	42	44	27.763	0.600	66.550	66.450	0.100	277.6	375	8.06	41.2
8.004	44	46	14.429	0.600	66.450	66.225	0.225	64.1	375	8.17	42.9
8.005	46	48	18.076	0.600	66.150	65.878	0.272	66.5	450	8.29	42.4

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)
8.006	48	50	67.110	0.600	65.878	65.710	0.168	399.5	450	9.39	40.9
8.007	50	52	13.944	0.600	65.710	65.675	0.035	398.4	525	9.60	40.7
1.011	52	HW	42.000	0.600	65.600	65.500	0.100	420.0	600	10.77	37.3
1.012	HW	CC54	69.944	0.045	65.500	64.800	0.700	99.9	750	11.75	36.5
1.013	CC54	OUTFALL	15.688	0.600	64.800	64.600	0.200	78.4	525	11.86	36.3

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	25.734	170.4	225	Circular_Default Sewer Type	69.611	68.463	0.923	69.400	68.312	0.863
1.001	40.513	170.2	225	Circular_Default Sewer Type	69.400	68.312	0.863	69.105	68.074	0.806
1.003	7.013	233.8	300	Circular_Default Sewer Type	69.105	67.999	0.806	69.219	67.969	0.950
1.004	16.602	240.6	300	Circular_Default Sewer Type	69.219	67.969	0.950	69.450	67.900	1.250
1.005	98.764	179.6	1300	GOYT	69.450	67.900	0.250	68.700	67.350	0.050
1.006	37.839	108.1	1300	GOYT	68.700	67.350	0.050	68.400	67.000	0.100
2.000	28.683	88.3	225	Circular_Default Sewer Type	69.013	67.550	1.238	68.589	67.225	1.139
2.001	15.753	157.5	225	Circular_Default Sewer Type	68.589	67.225	1.139	69.768	67.125	2.418
2.002	10.993	219.9	300	Circular_Default Sewer Type	69.768	67.050	2.418	68.400	67.000	1.100
1.007	31.562	210.4	1300	GOYT	68.400	67.000	0.100	68.150	66.850	0.000
3.000	57.393	91.8	225	Circular_Default Sewer Type	69.768	68.300	1.243	69.109	67.675	1.209
3.001	41.654	61.7	300	Circular_Default Sewer Type	69.109	67.600	1.209	68.129	66.925	0.904
3.002	16.643	221.9	300	Circular_Default Sewer Type	68.129	66.925	0.904	68.150	66.850	1.000
1.008	65.070	130.1	1300	GOYT	68.150	66.850	0.000	67.650	66.350	0.000
4.000	23.068	102.5	300	Circular_Default Sewer Type	69.392	67.875	1.217	69.178	67.650	1.228
4.001	25.887	94.1	300	Circular_Default Sewer Type	69.178	67.650	1.228	68.920	67.375	1.245
4.002	60.134	68.7	375	Circular_Default Sewer Type	68.920	67.300	1.245	67.700	66.425	0.900
4.003	14.110	188.1	375	Circular_Default Sewer Type	67.700	66.425	0.900	67.650	66.350	0.925
1.009	48.003	137.2	1300	GOYT	67.650	66.350	0.000	67.300	66.000	0.000
1.010	8.575	21.4	600	BOX CULVERT	67.300	66.000	0.700	67.500	65.600	1.300
5.000	49.997	238.1	300	Circular_Default Sewer Type	67.480	66.153	1.027	67.600	65.943	1.357
5.001	10.824	251.7	300	Circular_Default Sewer Type	67.600	65.943	1.357	67.500	65.900	1.300
8.000	41.557	32.6	225	Circular_Default Sewer Type	68.506	68.125	0.156	68.661	66.850	1.586

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Width (mm)	Node Type	MH Type
1.000	02	1350		Manhole	Adoptable	04	1350		Manhole	Adoptable
1.001	04	1350		Manhole	Adoptable	06	1350		Manhole	Adoptable
1.003	06	1350		Manhole	Adoptable	08	1350		Manhole	Adoptable
1.004	08	1350		Manhole	Adoptable	GOYT1	1		Manhole	Adoptable
1.005	GOYT1	1		Manhole	Adoptable	GOYT2	1		Manhole	Adoptable
1.006	GOYT2	1		Manhole	Adoptable	GOYT3	1		Manhole	Adoptable
2.000	10	1350		Manhole	Adoptable	12	1350		Manhole	Adoptable
2.001	12	1350		Manhole	Adoptable	14	1350		Manhole	Adoptable
2.002	14	1350		Manhole	Adoptable	GOYT3	1		Manhole	Adoptable
1.007	GOYT3	1		Manhole	Adoptable	GOYT4	1		Manhole	Adoptable
3.000	16	1350		Manhole	Adoptable	18	1350		Manhole	Adoptable
3.001	18	1350		Manhole	Adoptable	20	1350		Manhole	Adoptable
3.002	20	1350		Manhole	Adoptable	GOYT4	1		Manhole	Adoptable
1.008	GOYT4	1		Manhole	Adoptable	GOYT5	1		Manhole	Adoptable
4.000	22	1350		Manhole	Adoptable	24	1350		Manhole	Adoptable
4.001	24	1350		Manhole	Adoptable	26	1350		Manhole	Adoptable
4.002	26	1350		Manhole	Adoptable	28	1350		Manhole	Adoptable
4.003	28	1350		Manhole	Adoptable	GOYT5	1		Manhole	Adoptable
1.009	GOYT5	1		Manhole	Adoptable	GOYTHW1	1		Manhole	Adoptable
1.010	GOYTHW1	1		Manhole	Adoptable	52	800	1500	Manhole	Adoptable
5.000	30	1350		Manhole	Adoptable	32	1350		Manhole	Adoptable
5.001	32	1350		Manhole	Adoptable	52	800	1500	Manhole	Adoptable
8.000	34	1350		Manhole	Adoptable	40	1350		Manhole	Adoptable

Pipeline Schedule

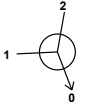
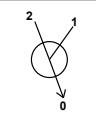
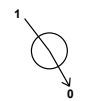
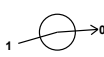
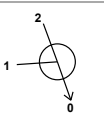
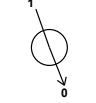
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
9.000	5.985	239.4	300	Circular_Default Sewer Type	68.506	67.000	1.206	68.661	66.975	1.386
9.001	47.101	235.5	300	Circular_Default Sewer Type	68.661	66.975	1.386	68.661	66.775	1.586
8.001	46.796	312.0	375	Circular_Default Sewer Type	68.661	66.700	1.586	68.673	66.550	1.748
8.002	27.763	277.6	375	Circular_Default Sewer Type	68.673	66.550	1.748	68.069	66.450	1.244
8.004	14.429	64.1	375	Circular_Default Sewer Type	68.069	66.450	1.244	67.802	66.225	1.202
8.005	18.076	66.5	450	Circular_Default Sewer Type	67.802	66.150	1.202	67.476	65.878	1.148
8.006	67.110	399.5	450	Circular_Default Sewer Type	67.476	65.878	1.148	67.450	65.710	1.290
8.007	13.944	398.4	525	Circular_Default Sewer Type	67.450	65.710	1.215	67.500	65.675	1.300
1.011	42.000	420.0	600	BOX CULVERT	67.500	65.600	1.300	66.500	65.500	0.400
1.012	69.944	99.9	750	CHANNEL	66.500	65.500	0.250	66.500	64.800	0.950
1.013	15.688	78.4	525	Circular_Default Sewer Type	66.500	64.800	1.175	68.500	64.600	3.375

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Width (mm)	Node Type	MH Type
9.000	36	1350		Manhole	Adoptable	38	1350		Manhole	Adoptable
9.001	38	1350		Manhole	Adoptable	40	1350		Manhole	Adoptable
8.001	40	1350		Manhole	Adoptable	42	1350		Manhole	Adoptable
8.002	42	1350		Manhole	Adoptable	44	1350		Manhole	Adoptable
8.004	44	1350		Manhole	Adoptable	46	1500		Manhole	Adoptable
8.005	46	1500		Manhole	Adoptable	48	1500		Manhole	Adoptable
8.006	48	1500		Manhole	Adoptable	50	1500		Manhole	Adoptable
8.007	50	1500		Manhole	Adoptable	52	800	1500	Manhole	Adoptable
1.011	52	800	1500	Manhole	Adoptable	HW	1		Manhole	Adoptable
1.012	HW	1		Manhole	Adoptable	CC54	3000		Manhole	Adoptable
1.013	CC54	3000		Manhole	Adoptable	OUTFALL	1		Manhole	Adoptable

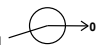
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
02	379402.895	407694.463	69.611	1.148	1350						
							0	1.000	68.463	225	
04	379384.061	407712.000	69.400	1.088	1350			1	1.000	68.312	225
							0	1.001	68.312	225	
06	379411.838	407741.492	69.105	1.106	1350			1	1.001	68.074	225
							0	1.003	67.999	300	
08	379407.549	407747.041	69.219	1.250	1350			1	1.003	67.969	300
							0	1.004	67.969	300	
GOYT1	379394.550	407736.713	69.450	1.550	1			1	1.004	67.900	300
							0	1.005	67.900	1300	
GOYT2	379326.093	407665.523	68.700	1.350	1			1	1.005	67.350	1300
							0	1.006	67.350	1300	
10	379272.295	407603.892	69.013	1.463	1350						
							0	2.000	67.550	225	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
12	379293.426	407623.287	68.589	1.364	1350			1	2.000	67.225	225
								0	2.001	67.225	225
14	379308.537	407627.739	69.768	2.718	1350			1	2.001	67.125	225
								0	2.002	67.050	300
GOYT3	379319.518	407628.260	68.400	1.400	1			1	2.002	67.000	300
								2	1.006	67.000	1300
								0	1.007	67.000	1300
16	379424.095	407663.478	69.768	1.468	1350						
								0	3.000	68.300	225
18	379379.184	407627.744	69.109	1.509	1350			1	3.000	67.675	225
								0	3.001	67.600	300
20	379340.500	407612.296	68.129	1.204	1350			1	3.001	66.925	300
								0	3.002	66.925	300
GOYT4	379330.790	407598.779	68.150	1.300	1			1	3.002	66.850	300
								2	1.007	66.850	1300
								0	1.008	66.850	1300
22	379254.590	407560.937	69.392	1.517	1350						
								0	4.000	67.875	300
24	379268.637	407542.639	69.178	1.528	1350			1	4.000	67.650	300
								0	4.001	67.650	300
26	379281.412	407520.124	68.920	1.620	1350			1	4.001	67.375	300
								0	4.002	67.300	375
28	379339.200	407536.755	67.700	1.275	1350			1	4.002	66.425	375
								0	4.003	66.425	375
GOYT5	379353.277	407537.718	67.650	1.300	1			1	4.003	66.350	375
								2	1.008	66.350	1300
								0	1.009	66.350	1300
GOYTHW1	379369.220	407492.440	67.300	1.300	1			1	1.009	66.000	1300
								0	1.010	66.000	600
30	379313.849	407469.585	67.480	1.327	1350						
								0	5.000	66.153	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
32	379361.559	407484.534	67.600	1.657	1350			1	5.000	65.943	300
								0	5.001	65.943	300
34	379443.043	407641.238	68.506	0.381	1350			0	8.000	68.125	225
36	379412.553	407584.157	68.506	1.506	1350			0	9.000	67.000	300
38	379411.028	407589.944	68.661	1.686	1350			1	9.000	66.975	300
								0	9.001	66.975	300
40	379456.574	407601.946	68.661	1.961	1350			1	9.001	66.775	300
								2	8.000	66.850	225
								0	8.001	66.700	375
42	379471.810	407557.700	68.673	2.123	1350			1	8.001	66.550	375
								0	8.002	66.550	375
44	379445.727	407548.190	68.069	1.619	1350			1	8.002	66.450	375
								0	8.004	66.450	375
46	379439.621	407535.117	67.802	1.652	1500			1	8.004	66.225	375
								0	8.005	66.150	450
48	379445.904	407518.168	67.476	1.598	1500			1	8.005	65.878	450
								0	8.006	65.878	450
50	379384.083	407492.055	67.450	1.740	1500			1	8.006	65.710	450
								0	8.007	65.710	525
52	379372.383	407484.470	67.500	1.900	800	1500		1	8.007	65.675	525
								2	5.001	65.900	300
								3	1.010	65.600	600
								0	1.011	65.600	600
HW	379388.443	407445.662	66.500	1.000	1			1	1.011	65.500	600
								0	1.012	65.500	750
CC54	379426.866	407387.217	66.500	1.700	3000			1	1.012	64.800	750
								0	1.013	64.800	525
OUTFALL	379421.812	407372.365	68.500	3.900	1			1	1.013	64.600	525

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	Additional Storage (m³/ha)	30.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	1440	Check Discharge Volume	x

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

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

Node CC54 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	65.500
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	9350.0	0.0	0.500	10000.0	0.0	0.501	10000.0	0.0

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	02	13	69.603	1.140	51.6	3.8967	0.0000	FLOOD RISK
15 minute summer	04	13	69.393	1.081	67.1	2.7101	0.0000	FLOOD RISK
15 minute summer	06	12	68.693	0.694	100.9	2.1053	0.0000	SURCHARGED
15 minute summer	08	12	68.582	0.613	151.1	2.0541	0.0000	SURCHARGED
480 minute winter	GOYT1	864	68.275	0.375	728.9	0.0000	0.0000	OK
1440 minute summer	GOYT2	810	67.652	0.302	722.7	0.0000	0.0000	OK
15 minute summer	10	12	69.013	1.463	76.0	5.4541	0.7027	FLOOD
15 minute summer	12	12	68.559	1.334	115.0	4.2859	0.0000	FLOOD RISK
15 minute summer	14	12	67.612	0.562	159.8	1.2829	0.0000	SURCHARGED
1440 minute summer	GOYT3	750	67.371	0.371	736.0	0.0000	0.0000	OK
15 minute summer	16	12	69.696	1.396	58.3	4.4512	0.0000	FLOOD RISK
30 minute summer	18	19	69.109	1.509	168.7	7.9796	1.1035	FLOOD
15 minute summer	20	11	68.129	1.204	268.5	6.8833	5.7598	FLOOD
1440 minute summer	GOYT4	750	67.176	0.326	761.0	0.0000	0.0000	OK
15 minute summer	22	12	69.248	1.373	48.8	3.9193	0.0000	FLOOD RISK
15 minute summer	24	12	69.178	1.528	164.6	7.5575	2.2501	FLOOD
15 minute summer	26	12	68.748	1.448	278.0	8.1307	0.0000	FLOOD RISK
15 minute summer	28	12	67.491	1.066	376.4	5.7890	0.0000	FLOOD RISK
1440 minute summer	GOYT5	750	66.745	0.395	796.7	0.0000	0.0000	OK
30 minute summer	GOYTHW1	22	66.623	0.623	906.5	0.0000	0.0000	SURCHARGED
30 minute summer	30	20	66.792	0.639	55.1	2.0977	0.0000	SURCHARGED
30 minute summer	32	20	66.686	0.743	118.5	2.5048	0.0000	SURCHARGED
15 minute summer	34	11	68.506	0.381	51.6	2.4053	6.6798	FLOOD
30 minute summer	36	18	68.506	1.506	75.9	5.5451	13.5265	FLOOD
15 minute winter	38	11	68.520	1.545	68.4	3.1188	0.0000	FLOOD RISK
15 minute summer	40	11	68.515	1.815	176.9	6.9848	0.0000	FLOOD RISK
15 minute summer	42	11	68.325	1.775	201.5	5.3496	0.0000	SURCHARGED
15 minute summer	44	11	67.968	1.518	195.7	2.1720	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	02	1.000	04	42.6	1.072	1.074	1.0235	
15 minute summer	04	1.001	06	65.0	1.636	1.638	1.6112	
15 minute summer	06	1.003	08	100.1	1.421	1.383	0.4939	
15 minute summer	08	1.004	GOYT1	150.5	2.247	2.110	1.1690	
480 minute winter	GOYT1	1.005	GOYT2	725.2	0.677	0.065	106.2277	
1440 minute summer	GOYT2	1.006	GOYT3	722.7	0.682	0.050	40.3164	
15 minute summer	10	2.000	12	62.4	1.570	1.128	1.1408	
15 minute summer	12	2.001	14	110.7	2.783	2.679	0.6265	
15 minute summer	14	2.002	GOYT3	159.9	2.442	2.142	0.7741	
1440 minute summer	GOYT3	1.007	GOYT4	735.9	0.662	0.072	35.2089	
15 minute summer	16	3.000	18	49.9	1.257	0.920	2.2826	
30 minute summer	18	3.001	20	155.8	2.213	1.100	2.9332	
15 minute summer	20	3.002	GOYT4	228.8	3.386	3.079	1.1350	
1440 minute summer	GOYT4	1.008	GOYT5	760.9	0.653	0.058	76.1004	
15 minute summer	22	4.000	24	50.3	0.752	0.458	1.6244	
15 minute summer	24	4.001	26	140.1	1.990	1.223	1.8229	
15 minute summer	26	4.002	28	267.9	2.429	1.109	6.6326	
15 minute summer	28	4.003	GOYT5	374.3	3.399	2.573	1.5285	
1440 minute summer	GOYT5	1.009	GOYTHW1	797.4	0.839	0.014	46.8478	
30 minute summer	GOYTHW1	1.010	52	940.9	1.676	0.207	6.1768	
30 minute summer	30	5.000	32	49.2	0.699	0.686	3.5208	
30 minute summer	32	5.001	52	115.8	1.645	1.662	0.7622	
15 minute summer	34	8.000	40	37.7	1.520	0.412	1.6528	
30 minute summer	36	9.000	38	48.8	0.905	0.682	0.4215	
15 minute winter	38	9.001	40	58.4	0.928	0.810	3.3168	
15 minute summer	40	8.001	42	142.8	1.295	1.267	5.1615	
15 minute summer	42	8.002	44	195.7	1.775	1.638	3.0622	
15 minute summer	44	8.004	46	194.9	1.903	0.779	1.5915	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	46	11	67.744	1.594	308.2	7.6492	0.0000	FLOOD RISK
30 minute summer	48	18	67.476	1.598	399.5	7.2645	14.1632	FLOOD
30 minute summer	50	21	66.763	1.053	516.3	6.8910	0.0000	SURCHARGED
30 minute summer	52	22	66.570	0.970	1351.4	1.1641	0.0000	SURCHARGED
30 minute summer	HW	23	66.323	0.823	1351.2	0.0000	0.0000	FLOOD RISK
1440 minute summer	CC54	960	65.786	0.986	866.2	2737.5310	0.0000	SURCHARGED
15 minute summer	OUTFALL	760	65.097	0.497	692.6	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)
15 minute summer	46	8.005	48	306.9	1.937	0.773	2.8640	
30 minute summer	48	8.006	50	330.2	2.084	2.054	10.6331	
30 minute summer	50	8.007	52	517.5	2.396	2.143	3.0124	
30 minute summer	52	1.011	HW	1351.2	1.876	1.327	30.2540	
30 minute summer	HW	1.012	CC54	1342.9	1.224	1.003	77.4461	
1440 minute summer	CC54	1.013	OUTFALL	750.6	3.475	1.370	3.3548	52787.7