

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	0.750	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Adoptable Manhole Type

Max Width (mm)	Diameter (mm)	Max Width (mm)	Diameter (mm)
374	1200	749	1500
499	1350	900	1800

>900 Link+900 mm

Max Depth (m)	Diameter (mm)	Max Depth (m)	Diameter (mm)
1.500	1050	99.999	1200

Circular Link Type

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

Available Diameters (mm)

100 | 150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S2	0.062	5.00	54.601	1350	394936.747	178816.667	1.491
S4	0.030	5.00	54.744	1350	394935.011	178829.804	1.690
S6	0.005	5.00	54.885	1200	394942.014	178843.115	1.900
S8	0.058	5.00	54.893	1200	394952.014	178845.092	1.953
SW-IC5	0.021	5.00	54.700	1350	395018.236	178742.679	1.300
SW-IC6	0.000		54.500	1350	395011.342	178741.767	1.237
SW-MH6	0.011	5.00	54.425	1200	394949.335	178751.078	1.325
SW-MH7	0.090	5.00	54.532	1200	394968.509	178742.180	1.432
SW-MH8	0.041	5.00	54.432	1200	394981.405	178742.609	1.460
S10	0.028	5.00	54.531	1350	395006.009	178747.664	1.633
S12	0.110	5.00	54.448	1350	395001.196	178779.544	1.625
S14	0.039	5.00	54.533	1200	395000.895	178793.855	1.783
S16	0.108	5.00	54.431	1350	395010.052	178812.972	1.846
SW-IC1	0.015	5.00	54.000	1350	395113.793	178818.581	0.900
SW-IC2	0.023	5.00	53.950	1350	395111.475	178833.066	1.100
SW-IC3	0.010	5.00	54.000	1350	395101.006	178866.592	0.900
SW-IC4	0.025	5.00	54.200	1350	395103.035	178860.205	1.250
S18	0.047	5.00	53.950	1500	395107.073	178849.014	1.504
S20	0.139	5.00	54.796	1350	395027.683	178878.304	1.575
S22	0.097	5.00	54.281	1350	395039.390	178839.784	1.576
S24	0.114	5.00	54.191	1350	395050.836	178829.330	2.017
S26	0.053	5.00	54.564	1350	395033.959	178799.861	2.544
S28	0.105	5.00	53.904	1500	395082.605	178772.569	2.004

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S30	0.089	5.00	53.466	1350	395092.778	178743.854	1.159
S32	0.019	5.00	53.828	1500	395087.198	178764.243	1.948
HW1			53.208	1350	395099.736	178770.259	1.358
HW2			53.208	1350	395125.277	178779.264	1.508
S34	0.084	5.00	53.686	1350	395105.553	178785.771	1.406
S36 (HB)	0.017	5.00	53.871	3000	395129.804	178788.026	2.227
S38			53.914	1500	395114.313	178847.155	2.404
S40			53.878	1500	395106.261	178876.164	2.435
S42			53.726	1500	395077.094	178976.796	2.513
HW3			52.500	1350	395045.886	179082.495	1.529

Links (Results)

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.018	71.9	8.1	1.191	1.390	0.062	0.0	68	0.680
1.001	1.061	75.0	11.9	1.390	1.600	0.092	0.0	80	0.779
1.002	1.040	73.5	12.4	1.600	1.653	0.097	0.0	83	0.779
1.003	1.017	71.9	18.2	1.653	1.471	0.155	0.0	103	0.853
Private 2.0	0.861	6.8	2.8	1.200	1.087	0.021	0.0	45	0.821
Lateral 2	1.020	18.0	2.7	1.087	1.200	0.021	0.0	40	0.739
7.000	1.000	70.7	1.4	1.025	1.032	0.011	0.0	300	0.000
7.001	1.566	110.7	13.0	1.132	1.160	0.101	0.0	69	1.058
7.002	0.893	63.1	17.6	1.152	1.333	0.142	0.0	108	0.768
2.000	1.005	71.1	22.8	1.200	1.250	0.191	0.0	116	0.897
2.001	1.290	142.5	35.4	1.250	1.408	0.301	0.0	127	1.078
2.002	1.597	176.4	39.3	1.408	1.471	0.340	0.0	120	1.295
1.004	2.238	247.2	68.7	1.471	2.019	0.603	0.0	134	1.924
Private 4.0	0.900	7.1	2.0	0.800	0.950	0.015	0.0	36	0.773
Lateral 4	1.045	18.5	4.9	0.950	1.129	0.038	0.0	52	0.883
Private 5.0	0.942	7.4	1.3	0.800	1.100	0.010	0.0	29	0.709
Lateral 5	1.545	27.3	4.6	1.100	1.129	0.035	0.0	41	1.148
3.000	1.036	114.5	14.3	1.129	1.567	0.120	0.0	89	0.714
4.000	2.053	226.7	18.1	1.200	1.201	0.139	0.0	71	1.243
4.001	3.116	344.2	30.5	1.201	1.567	0.236	0.0	75	1.957
3.001	0.974	154.9	53.7	1.567	2.019	0.470	0.0	182	0.888
1.005	1.032	223.4	120.6	2.019	1.479	1.126	0.0	275	1.051
1.006	1.020	220.9	130.6	1.479	1.423	1.231	0.0	291	1.061
5.000	1.010	40.2	11.6	0.934	1.423	0.089	0.0	82	0.874
1.007	1.033	223.7	140.1	1.423	0.833	1.339	0.0	302	1.089
1.008	2.079	918.6	138.2	0.608	0.758	1.339	0.0	194	1.518
1.009	1.684	364.6	137.3	0.983	1.702	1.339	0.0	223	1.570
6.000	1.538	61.1	11.0	1.181	1.702	0.084	0.0	65	1.174
1.010	1.042	225.6	139.3	1.702	1.879	1.440	0.0	299	1.094
1.011	1.050	227.3	135.5	1.879	1.910	1.440	0.0	292	1.094
1.012	1.043	225.7	124.0	1.910	1.988	1.440	0.0	278	1.066
1.013	1.043	225.7	114.2	1.988	1.004	1.440	0.0	264	1.046

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	10000
M5-60 (mm)	21.000	Additional Storage (m³/ha)	0.0
Ratio-R	0.400	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	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 %)
2	0	0	0
30	0	0	0
100	45	0	0

Node S36 (HB) Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	51.644	Product Number	CTL-SHE-0107-5900-1500-5900
Design Depth (m)	1.500	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.9	Min Node Diameter (mm)	1200

Node HW2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	51.700
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	2145

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	525.8	0.0	0.500	634.6	0.0	1.000	753.0	0.0	1.500	880.5	0.0
0.100	546.5	0.0	0.600	657.6	0.0	1.100	777.8	0.0	1.508	882.6	0.0
0.200	568.0	0.0	0.700	680.9	0.0	1.200	802.9	0.0			
0.300	589.8	0.0	0.800	704.6	0.0	1.300	828.4	0.0			
0.400	612.1	0.0	0.900	728.6	0.0	1.400	854.3	0.0			

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 15 minute summer	148.880	42.128	2 year 360 minute summer	18.131	4.666
2 year 15 minute winter	104.477	42.128	2 year 360 minute winter	11.786	4.666
2 year 30 minute summer	96.535	27.316	2 year 480 minute summer	14.257	3.768
2 year 30 minute winter	67.744	27.316	2 year 480 minute winter	9.472	3.768
2 year 60 minute summer	64.525	17.052	2 year 600 minute summer	11.667	3.191
2 year 60 minute winter	42.869	17.052	2 year 600 minute winter	7.972	3.191
2 year 120 minute summer	39.437	10.422	2 year 720 minute summer	10.396	2.786
2 year 120 minute winter	26.201	10.422	2 year 720 minute winter	6.986	2.786
2 year 180 minute summer	30.204	7.772	2 year 960 minute summer	8.539	2.249
2 year 180 minute winter	19.633	7.772	2 year 960 minute winter	5.657	2.249
2 year 240 minute summer	23.841	6.301	2 year 1440 minute summer	6.202	1.662
2 year 240 minute winter	15.840	6.301	2 year 1440 minute winter	4.168	1.662

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
30 year 15 minute summer	282.941	80.063	100 year +45% CC 15 minute summer	533.413	150.938
30 year 15 minute winter	198.555	80.063	100 year +45% CC 15 minute winter	374.325	150.938
30 year 30 minute summer	184.065	52.084	100 year +45% CC 30 minute summer	349.807	98.983
30 year 30 minute winter	129.168	52.084	100 year +45% CC 30 minute winter	245.479	98.983
30 year 60 minute summer	122.494	32.372	100 year +45% CC 60 minute summer	233.617	61.738
30 year 60 minute winter	81.382	32.372	100 year +45% CC 60 minute winter	155.209	61.738
30 year 120 minute summer	73.819	19.508	100 year +45% CC 120 minute summer	140.488	37.127
30 year 120 minute winter	49.044	19.508	100 year +45% CC 120 minute winter	93.337	37.127
30 year 180 minute summer	55.739	14.344	100 year +45% CC 180 minute summer	105.587	27.171
30 year 180 minute winter	36.232	14.344	100 year +45% CC 180 minute winter	68.635	27.171
30 year 240 minute summer	43.466	11.487	100 year +45% CC 240 minute summer	81.952	21.657
30 year 240 minute winter	28.878	11.487	100 year +45% CC 240 minute winter	54.447	21.657
30 year 360 minute summer	32.642	8.400	100 year +45% CC 360 minute summer	61.205	15.750
30 year 360 minute winter	21.218	8.400	100 year +45% CC 360 minute winter	39.785	15.750
30 year 480 minute summer	25.424	6.719	100 year +45% CC 480 minute summer	47.472	12.545
30 year 480 minute winter	16.891	6.719	100 year +45% CC 480 minute winter	31.539	12.545
30 year 600 minute summer	20.644	5.647	100 year +45% CC 600 minute summer	38.418	10.508
30 year 600 minute winter	14.106	5.647	100 year +45% CC 600 minute winter	26.249	10.508
30 year 720 minute summer	18.273	4.897	100 year +45% CC 720 minute summer	33.908	9.088
30 year 720 minute winter	12.281	4.897	100 year +45% CC 720 minute winter	22.788	9.088
30 year 960 minute summer	14.848	3.910	100 year +45% CC 960 minute summer	27.421	7.221
30 year 960 minute winter	9.835	3.910	100 year +45% CC 960 minute winter	18.164	7.221
30 year 1440 minute summer	10.608	2.843	100 year +45% CC 1440 minute summer	19.454	5.214
30 year 1440 minute winter	7.129	2.843	100 year +45% CC 1440 minute winter	13.074	5.214

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S2	10	53.197	0.087	11.9	0.1241	0.0000	OK
15 minute winter	S4	10	53.159	0.105	17.5	0.1496	0.0000	OK
15 minute winter	S6	11	53.100	0.115	18.2	0.1303	0.0000	OK
15 minute winter	S8	11	53.072	0.132	28.8	0.1489	0.0000	OK
15 minute winter	SW-IC5	10	53.459	0.059	4.0	0.0840	0.0000	OK
15 minute winter	SW-IC6	11	53.313	0.050	3.9	0.0714	0.0000	OK
15 minute winter	SW-MH6	12	53.234	0.134	2.1	0.1511	0.0000	OK
15 minute winter	SW-MH7	11	53.188	0.088	18.0	0.0996	0.0000	OK
15 minute winter	SW-MH8	11	53.194	0.222	25.6	0.2511	0.0000	OK
15 minute winter	S10	11	53.182	0.284	33.6	0.4059	0.0000	OK
15 minute winter	S12	11	52.997	0.174	53.3	0.2490	0.0000	OK
15 minute winter	S14	11	52.915	0.165	60.4	0.1865	0.0000	OK
15 minute winter	S16	11	52.767	0.182	107.7	0.2599	0.0000	OK
15 minute winter	SW-IC1	10	53.145	0.045	2.9	0.0646	0.0000	OK
15 minute winter	SW-IC2	10	52.917	0.067	7.2	0.0955	0.0000	OK
15 minute winter	SW-IC3	10	53.136	0.036	1.9	0.0512	0.0000	OK
15 minute winter	SW-IC4	10	53.002	0.052	6.7	0.0750	0.0000	OK
15 minute winter	S18	11	52.556	0.110	22.5	0.1945	0.0000	OK
15 minute winter	S20	10	53.308	0.087	26.6	0.1246	0.0000	OK
15 minute winter	S22	10	52.795	0.090	44.9	0.1288	0.0000	OK
15 minute winter	S24	11	52.536	0.362	87.7	0.5179	0.0000	OK
15 minute winter	S26	11	52.489	0.469	216.7	0.6708	0.0000	OK
15 minute summer	S28	10	52.407	0.507	222.6	0.8952	0.0000	OK
15 minute winter	S30	11	52.409	0.102	17.1	0.1459	0.0000	OK
15 minute summer	S32	10	52.380	0.500	241.8	0.8837	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S2	1.000	S4	11.7	0.608	0.163	0.2563	
15 minute winter	S4	1.001	S6	17.2	0.747	0.229	0.3491	
15 minute winter	S6	1.002	S8	18.2	0.681	0.247	0.2785	
15 minute winter	S8	1.003	S16	27.7	0.960	0.385	1.9298	
15 minute winter	SW-IC5	Private 2.0	SW-IC6	3.9	0.858	0.581	0.0318	
15 minute winter	SW-IC6	Lateral 2	S10	3.9	0.792	0.217	0.0393	
15 minute winter	SW-MH6	7.000	SW-MH7	1.6	0.104	0.023	0.3577	
15 minute winter	SW-MH7	7.001	SW-MH8	17.7	0.512	0.160	0.4718	
15 minute winter	SW-MH8	7.002	S10	24.6	0.398	0.390	1.5416	
15 minute winter	S10	2.000	S12	33.5	0.989	0.472	1.0934	
15 minute winter	S12	2.001	S14	53.4	1.106	0.375	0.6917	
15 minute winter	S14	2.002	S16	60.5	1.225	0.343	1.0545	
15 minute winter	S16	1.004	S26	108.6	1.731	0.439	2.0822	
15 minute winter	SW-IC1	Private 4.0	SW-IC2	2.8	0.834	0.396	0.0493	
15 minute winter	SW-IC2	Lateral 4	S18	7.0	0.957	0.380	0.1216	
15 minute winter	SW-IC3	Private 5.0	SW-IC4	1.9	0.762	0.252	0.0164	
15 minute winter	SW-IC4	Lateral 5	S18	6.6	1.236	0.240	0.0632	
15 minute winter	S18	3.000	S24	22.2	0.591	0.194	3.4981	
15 minute winter	S20	4.000	S22	26.3	1.326	0.116	0.7980	
15 minute winter	S22	4.001	S24	44.4	1.637	0.129	0.8559	
15 minute winter	S24	3.001	S26	98.5	0.855	0.636	4.8175	
15 minute winter	S26	1.005	S28	211.7	1.066	0.947	11.4082	
15 minute summer	S28	1.006	S32	225.7	1.243	1.022	2.0250	
15 minute winter	S30	5.000	S32	16.9	0.866	0.420	0.5272	
15 minute summer	S32	1.007	HW1	245.2	1.664	1.096	2.9195	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	HW1	10	52.332	0.482	245.2	0.6897	0.0000	OK
360 minute winter	HW2	344	52.109	0.409	36.5	233.2505	0.0000	OK
15 minute winter	S34	10	52.361	0.081	16.1	0.1157	0.0000	OK
360 minute winter	S36 (HB)	344	52.109	0.465	6.3	3.2848	0.0000	OK
360 minute winter	S38	344	51.569	0.059	5.9	0.1037	0.0000	OK
360 minute winter	S40	352	51.501	0.058	5.9	0.1017	0.0000	OK
360 minute winter	S42	352	51.274	0.061	5.9	0.1072	0.0000	OK
360 minute winter	HW3	352	51.020	0.049	5.9	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	HW1	1.008	HW2	249.8	2.809	0.272	4.0877	
360 minute winter	HW2	1.009	S36 (HB)	5.8	0.119	0.016	1.8866	
15 minute winter	S34	6.000	S36 (HB)	15.8	1.269	0.259	0.3036	
360 minute winter	S36 (HB)	1.010	S38	5.9	0.454	0.026	0.7938	
360 minute winter	S38	1.011	S40	5.9	0.456	0.026	0.3893	
360 minute winter	S40	1.012	S42	5.9	0.444	0.026	1.3904	
360 minute winter	S42	1.013	HW3	5.9	0.494	0.026	1.3185	337.5

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S2	12	53.303	0.193	22.6	0.2756	0.0000	OK
15 minute winter	S4	12	53.284	0.230	33.2	0.3288	0.0000	OK
15 minute winter	S6	12	53.275	0.290	34.4	0.3275	0.0000	OK
15 minute winter	S8	12	53.259	0.319	54.0	0.3610	0.0000	SURCHARGED
15 minute winter	SW-IC5	11	53.521	0.121	7.6	0.1733	0.0000	SURCHARGED
15 minute winter	SW-IC6	12	53.397	0.134	7.3	0.1914	0.0000	OK
15 minute winter	SW-MH6	12	53.459	0.359	6.9	0.4064	0.0000	SURCHARGED
15 minute winter	SW-MH7	12	53.435	0.335	35.2	0.3785	0.0000	SURCHARGED
15 minute winter	SW-MH8	12	53.423	0.451	45.4	0.5097	0.0000	SURCHARGED
15 minute winter	S10	12	53.380	0.482	59.8	0.6901	0.0000	SURCHARGED
15 minute winter	S12	11	53.294	0.471	99.3	0.6741	0.0000	SURCHARGED
15 minute winter	S14	11	53.244	0.494	97.7	0.5585	0.0000	SURCHARGED
15 minute winter	S16	11	53.169	0.584	176.7	0.8355	0.0000	SURCHARGED
15 minute winter	SW-IC1	12	53.234	0.134	5.5	0.1923	0.0000	SURCHARGED
15 minute summer	SW-IC2	10	53.142	0.292	12.9	0.4172	0.0000	SURCHARGED
15 minute winter	SW-IC3	10	53.151	0.051	3.6	0.0729	0.0000	OK
15 minute summer	SW-IC4	10	53.130	0.180	12.3	0.2577	0.0000	SURCHARGED
15 minute winter	S18	11	53.053	0.607	98.6	1.0719	0.0000	SURCHARGED
15 minute winter	S20	10	53.339	0.118	50.6	0.1694	0.0000	OK
15 minute winter	S22	11	53.065	0.360	85.5	0.5158	0.0000	OK
15 minute winter	S24	11	53.023	0.849	151.6	1.2147	0.0000	SURCHARGED
15 minute winter	S26	11	52.915	0.895	335.0	1.2804	0.0000	SURCHARGED
15 minute winter	S28	11	52.601	0.701	367.5	1.2383	0.0000	SURCHARGED
15 minute summer	S30	9	52.651	0.344	30.8	0.4917	0.0000	SURCHARGED
15 minute winter	S32	8	52.479	0.599	405.8	1.0587	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 winter	S2	1.000	S4	23.4	0.674	0.325	0.7002	
15 minute winter	S4	1.001	S6	32.6	0.821	0.434	0.9595	
15 minute winter	S6	1.002	S8	32.9	0.734	0.448	0.7141	
15 minute winter	S8	1.003	S16	54.2	0.934	0.754	4.6711	
15 minute winter	SW-IC5	Private 2.0	SW-IC6	7.3	0.934	1.076	0.0522	
15 minute winter	SW-IC6	Lateral 2	S10	8.8	0.891	0.488	0.1359	
15 minute winter	SW-MH6	7.000	SW-MH7	8.2	0.249	0.117	1.3691	
15 minute winter	SW-MH7	7.001	SW-MH8	32.2	0.553	0.291	0.9086	
15 minute winter	SW-MH8	7.002	S10	42.7	0.606	0.676	1.7688	
15 minute winter	S10	2.000	S12	60.9	1.093	0.857	2.2704	
15 minute winter	S12	2.001	S14	86.9	1.183	0.610	1.5788	
15 minute winter	S14	2.002	S16	101.2	1.223	0.574	2.3380	
15 minute winter	S16	1.004	S26	181.8	1.807	0.736	3.0074	
15 minute winter	SW-IC1	Private 4.0	SW-IC2	5.6	0.940	0.797	0.1148	
15 minute summer	SW-IC2	Lateral 4	S18	13.8	1.062	0.745	0.2913	
15 minute winter	SW-IC3	Private 5.0	SW-IC4	3.6	0.872	0.490	0.0373	
15 minute summer	SW-IC4	Lateral 5	S18	14.6	1.403	0.534	0.2094	
15 minute winter	S18	3.000	S24	-57.0	0.617	-0.498	6.5717	
15 minute winter	S20	4.000	S22	50.2	1.430	0.222	2.7726	
15 minute winter	S22	4.001	S24	83.6	1.640	0.243	1.6985	
15 minute winter	S24	3.001	S26	152.9	0.965	0.987	5.3807	
15 minute winter	S26	1.005	S28	335.5	1.553	1.501	12.0501	
15 minute winter	S28	1.006	S32	368.8	1.707	1.670	2.0543	
15 minute summer	S30	5.000	S32	29.7	0.862	0.739	0.8407	
15 minute winter	S32	1.007	HW1	407.2	1.985	1.820	3.0044	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	HW1	585	52.470	0.620	42.4	0.8870	0.0000	OK
600 minute winter	HW2	585	52.470	0.770	41.5	470.6100	0.0000	SURCHARGED
600 minute winter	S34	585	52.470	0.190	2.8	0.2720	0.0000	OK
600 minute winter	S36 (HB)	585	52.470	0.826	6.6	5.8395	0.0000	SURCHARGED
60 minute winter	S38	42	51.569	0.059	5.9	0.1038	0.0000	OK
15 minute winter	S40	19	51.502	0.059	5.9	0.1043	0.0000	OK
30 minute winter	S42	125	51.274	0.061	6.0	0.1072	0.0000	OK
30 minute winter	HW3	125	51.020	0.049	5.9	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)
600 minute winter	HW1	1.008	HW2	41.5	1.001	0.045	11.2323	
600 minute winter	HW2	1.009	S36 (HB)	5.8	0.119	0.016	2.1305	
600 minute winter	S34	6.000	S36 (HB)	2.8	0.727	0.046	0.9202	
600 minute winter	S36 (HB)	1.010	S38	5.9	0.454	0.026	0.7945	
60 minute winter	S38	1.011	S40	5.9	0.457	0.026	0.3896	
15 minute winter	S40	1.012	S42	6.0	0.542	0.027	1.3872	
30 minute winter	S42	1.013	HW3	5.9	0.495	0.026	1.3197	313.9

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S2	10	54.601	1.491	42.6	2.1336	3.6992	FLOOD
15 minute winter	S4	10	54.619	1.565	47.3	2.2390	0.0000	FLOOD RISK
15 minute winter	S6	10	54.590	1.605	46.4	1.8153	0.0000	FLOOD RISK
15 minute winter	S8	10	54.596	1.656	71.9	1.8726	0.0000	FLOOD RISK
15 minute winter	SW-IC5	11	54.700	1.300	14.7	1.8603	0.3136	FLOOD
15 minute winter	SW-IC6	10	54.499	1.236	15.0	1.7690	0.0000	FLOOD RISK
15 minute winter	SW-MH6	10	54.425	1.325	36.1	1.4986	7.5931	FLOOD
15 minute winter	SW-MH7	10	54.468	1.368	61.8	1.5473	0.0000	FLOOD RISK
15 minute winter	SW-MH8	10	54.432	1.460	68.8	1.6513	9.4000	FLOOD
15 minute winter	S10	10	54.467	1.569	73.0	2.2453	0.0000	FLOOD RISK
15 minute winter	S12	10	54.448	1.625	119.6	2.3254	1.4474	FLOOD
15 minute winter	S14	10	54.418	1.668	128.5	1.8864	0.0000	FLOOD RISK
15 minute winter	S16	10	54.352	1.767	245.7	2.5292	0.0000	FLOOD RISK
15 minute winter	SW-IC1	10	54.000	0.900	11.5	1.2879	1.3874	FLOOD
15 minute winter	SW-IC2	10	53.950	1.100	19.1	1.5741	3.2371	FLOOD
15 minute winter	SW-IC3	10	54.000	0.900	12.2	1.2879	1.8050	FLOOD
15 minute winter	SW-IC4	10	54.063	1.113	17.2	1.5921	0.0000	FLOOD RISK
15 minute winter	S18	10	53.950	1.504	70.9	2.6576	8.2087	FLOOD
15 minute winter	S20	10	54.293	1.072	95.5	1.5344	0.0000	SURCHARGED
15 minute winter	S22	10	54.180	1.475	155.6	2.1113	0.0000	FLOOD RISK
15 minute winter	S24	10	54.034	1.860	231.2	2.6617	0.0000	FLOOD RISK
15 minute winter	S26	10	53.831	1.811	494.9	2.5915	0.0000	SURCHARGED
960 minute winter	S28	945	53.172	1.272	49.9	2.2480	0.0000	SURCHARGED
960 minute winter	S30	930	53.172	0.865	3.8	1.2379	0.0000	FLOOD RISK
960 minute winter	S32	945	53.172	1.292	53.8	2.2823	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 winter	S2	1.000	S4	31.2	0.710	0.434	0.9331	
15 minute winter	S4	1.001	S6	43.8	0.839	0.584	1.0592	
15 minute winter	S6	1.002	S8	51.1	0.738	0.695	0.7179	
15 minute winter	S8	1.003	S16	75.7	1.074	1.052	4.6711	
15 minute winter	SW-IC5	Private 2.0	SW-IC6	11.3	1.440	1.667	0.0544	
15 minute winter	SW-IC6	Lateral 2	S10	21.1	1.197	1.168	0.1400	
15 minute winter	SW-MH6	7.000	SW-MH7	-29.0	-0.412	-0.410	1.4885	
15 minute winter	SW-MH7	7.001	SW-MH8	40.8	0.617	0.368	0.9086	
15 minute winter	SW-MH8	7.002	S10	54.9	0.780	0.870	1.7688	
15 minute winter	S10	2.000	S12	81.2	1.164	1.143	2.2704	
15 minute winter	S12	2.001	S14	111.0	1.176	0.779	1.5788	
15 minute winter	S14	2.002	S16	126.8	1.257	0.719	2.3380	
15 minute winter	S16	1.004	S26	244.8	2.220	0.991	3.0074	
15 minute winter	SW-IC1	Private 4.0	SW-IC2	8.4	1.079	1.194	0.1148	
15 minute winter	SW-IC2	Lateral 4	S18	19.5	1.107	1.055	0.2913	
15 minute winter	SW-IC3	Private 5.0	SW-IC4	8.5	1.086	1.148	0.0524	
15 minute winter	SW-IC4	Lateral 5	S18	20.4	1.441	0.749	0.2094	
15 minute winter	S18	3.000	S24	61.1	0.595	0.534	6.5717	
15 minute winter	S20	4.000	S22	93.0	1.550	0.410	4.4406	
15 minute winter	S22	4.001	S24	157.6	1.714	0.458	1.7098	
15 minute winter	S24	3.001	S26	219.9	1.388	1.419	5.3807	
15 minute winter	S26	1.005	S28	492.8	2.281	2.206	12.0501	
960 minute winter	S28	1.006	S32	49.4	0.596	0.224	2.0543	
960 minute winter	S30	5.000	S32	3.7	0.587	0.091	0.8407	
960 minute winter	S32	1.007	HW1	54.3	0.824	0.243	3.0044	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	HW1	930	53.172	1.322	54.3	1.8921	0.0000	FLOOD RISK
960 minute winter	HW2	945	53.172	1.472	53.8	1021.6310	0.0000	FLOOD RISK
960 minute winter	S34	945	53.172	0.892	3.6	1.2762	0.0000	SURCHARGED
960 minute winter	S36 (HB)	945	53.172	1.528	6.5	10.8000	0.0000	SURCHARGED
60 minute summer	S38	35	51.569	0.059	5.9	0.1038	0.0000	OK
15 minute winter	S40	16	51.503	0.060	5.9	0.1062	0.0000	OK
15 minute summer	S42	306	51.274	0.061	6.1	0.1072	0.0000	OK
15 minute summer	HW3	305	51.020	0.049	5.9	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)
960 minute winter	HW1	1.008	HW2	53.8	1.001	0.059	11.9193	
960 minute winter	HW2	1.009	S36 (HB)	5.8	0.118	0.016	2.1305	
960 minute winter	S34	6.000	S36 (HB)	3.5	0.648	0.057	0.9687	
960 minute winter	S36 (HB)	1.010	S38	5.9	0.454	0.026	0.7945	
60 minute summer	S38	1.011	S40	5.9	0.458	0.026	0.3896	
15 minute winter	S40	1.012	S42	6.1	0.555	0.027	1.3917	
15 minute summer	S42	1.013	HW3	5.9	0.495	0.026	1.3197	379.5