



Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

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 %)
2	0	0	0

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S1	11	23.009	0.329	9.0	0.3723	0.0000	SURCHARGED
15 minute summer	1.000:50%	11	22.991	0.386	9.6	0.0000	0.0000	SURCHARGED
15 minute summer	EX S2	11	22.936	0.251	8.1	0.2707	0.0000	SURCHARGED
15 minute summer	EX S3	11	22.968	0.437	15.7	0.4714	0.0000	SURCHARGED
15 minute summer	1.001:50%	11	22.943	0.444	16.9	0.0000	0.0000	SURCHARGED
15 minute summer	EX S4	11	22.920	0.398	6.4	0.4504	0.0000	SURCHARGED
15 minute summer	EX S5	11	22.914	0.448	33.0	0.4838	0.0000	SURCHARGED
15 minute summer	EX S6	11	22.786	0.339	32.5	0.3659	0.0000	SURCHARGED
15 minute summer	EX S7	12	22.661	0.234	32.0	0.2530	0.0000	SURCHARGED
15 minute summer	EX S8	12	22.483	0.082	31.9	0.0931	0.0000	OK
4320 minute winter	TW JNC 2903	4440	19.241	1.130	0.4	1.2779	0.0000	OK
4320 minute winter	TW 2930	4200	19.241	1.161	1.2	6.7900	0.0000	OK
15 minute summer	TW 2930 Bend	1	19.882	1.829	0.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S1	1.000	1.000:50%	7.9	0.760	0.443	0.1305	
15 minute summer	EX S1	1.000	EX S3	10.0	0.570	0.563	0.1305	
15 minute summer	EX S2	2.000	EX S4	6.4	0.752	0.277	0.1723	
15 minute summer	EX S3	1.001	1.001:50%	15.2	0.862	0.660	0.0343	
15 minute summer	EX S3	1.001	EX S5	17.2	0.977	0.748	0.0343	
15 minute summer	EX S4	2.001	EX S5	6.3	0.357	0.272	0.0586	
15 minute summer	EX S5	1.004	EX S6	32.5	1.846	1.419	0.0202	
15 minute summer	EX S6	1.005	EX S7	32.0	1.819	1.382	0.0208	
15 minute summer	EX S7	1.006	EX S8	31.9	2.052	1.398	0.0218	
15 minute summer	EX S8	1.007	TW 2930	32.0	3.321	0.545	0.2363	
15 minute winter	TW JNC 2903	3.000	TW 2930	-11.6	-0.212	-0.003	8.8941	
15 minute summer	TW 2930	3.001	TW 2930 Bend	0.0	0.000	0.000	40.1366	0.0

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	Channel Outlet	10	23.524	0.034	9.0	0.0055	0.0000	OK
15 minute summer	LDC J4	10	23.605	0.065	6.0	0.0000	0.0000	OK
15 minute summer	4.003:50%	10	23.592	0.077	9.1	0.0000	0.0000	OK
15 minute summer	LDC J3	10	23.698	0.058	3.1	0.0652	0.0000	OK
15 minute summer	4.002:50%	10	23.688	0.073	6.1	0.0000	0.0000	OK
15 minute summer	LDC J2	10	23.740	0.050	3.1	0.0000	0.0000	OK
15 minute summer	LDC J1	10	23.763	0.023	0.2	0.0000	0.0000	OK
15 minute summer	4.000:50%	10	23.763	0.048	3.1	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	Channel Outlet	4.004	EX S1	9.0	1.375	0.116	0.0443	
15 minute summer	LDC J4	4.003	4.003:50%	6.0	0.745	0.300	0.0163	
15 minute summer	LDC J4	4.003	Channel Outlet	9.0	1.526	0.454	0.0121	
15 minute summer	LDC J3	4.002	4.002:50%	3.0	0.582	0.442	0.0108	
15 minute summer	LDC J3	4.002	LDC J4	6.0	0.976	0.889	0.0123	
15 minute summer	LDC J2	4.001	LDC J3	3.1	0.713	0.452	0.0173	
15 minute summer	LDC J1	4.000	4.000:50%	-0.2	-0.139	-0.031	0.0051	
15 minute summer	LDC J1	4.000	LDC J2	3.1	0.805	0.455	0.0077	



Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

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 %)
5	0	0	0

Results for 5 year Critical Storm Duration. Lowest mass balance: 98.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S1	12	23.632	0.952	14.7	1.0762	0.0000	FLOOD RISK
15 minute summer	1.000:50%	12	23.594	0.989	15.0	0.0000	0.0000	SURCHARGED
15 minute summer	EX S2	11	23.481	0.796	14.1	0.8596	0.0000	SURCHARGED
15 minute summer	EX S3	12	23.540	1.009	24.0	1.0896	0.0000	FLOOD RISK
15 minute summer	1.001:50%	12	23.489	0.991	24.9	0.0000	0.0000	SURCHARGED
15 minute summer	EX S4	12	23.444	0.922	10.3	1.0428	0.0000	SURCHARGED
15 minute summer	EX S5	11	23.425	0.959	51.0	1.0360	0.0000	SURCHARGED
15 minute summer	EX S6	12	23.148	0.701	49.4	0.7576	0.0000	SURCHARGED
15 minute summer	EX S7	12	22.863	0.436	48.3	0.4707	0.0000	SURCHARGED
15 minute summer	EX S8	12	22.512	0.111	48.5	0.1255	0.0000	OK
10080 minute summer	TW JNC 2903	7560	19.882	1.771	0.4	2.0030	0.0000	OK
5760 minute winter	TW 2930	5400	19.882	1.802	1.2	10.5399	0.0000	OK
15 minute summer	TW 2930 Bend	1	19.882	1.829	0.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S1	1.000	1.000:50%	13.8	0.787	0.778	0.1305	
15 minute summer	EX S1	1.000	EX S3	16.7	0.949	0.938	0.1305	
15 minute summer	EX S2	2.000	EX S4	10.3	0.838	0.448	0.1723	
15 minute summer	EX S3	1.001	1.001:50%	22.8	1.298	0.994	0.0343	
15 minute summer	EX S3	1.001	EX S5	26.0	1.477	1.131	0.0343	
15 minute summer	EX S4	2.001	EX S5	10.0	0.571	0.435	0.0586	
15 minute summer	EX S5	1.004	EX S6	49.4	2.805	2.156	0.0202	
15 minute summer	EX S6	1.005	EX S7	48.3	2.745	2.085	0.0208	
15 minute summer	EX S7	1.006	EX S8	48.5	2.864	2.128	0.0250	
15 minute summer	EX S8	1.007	TW 2930	48.6	3.598	0.826	0.3309	
15 minute summer	TW JNC 2903	3.000	TW 2930	-18.0	-0.215	-0.005	16.7496	
5760 minute winter	TW 2930	3.001	TW 2930 Bend	0.1	0.000	0.000	71.8133	0.8

Results for 5 year Critical Storm Duration. Lowest mass balance: 98.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	Channel Outlet	12	23.659	0.169	15.3	0.0269	0.0000	FLOOD RISK
15 minute summer	LDC J4	12	23.674	0.134	9.9	0.0000	0.0000	OK
15 minute summer	4.003:50%	12	23.672	0.157	15.3	0.0000	0.0000	SURCHARGED
15 minute summer	LDC J3	11	23.759	0.119	5.0	0.1351	0.0000	SURCHARGED
15 minute summer	4.002:50%	10	23.742	0.127	10.0	0.0000	0.0000	SURCHARGED
15 minute summer	LDC J2	11	23.792	0.102	5.1	0.0000	0.0000	SURCHARGED
15 minute summer	LDC J1	11	23.799	0.059	0.3	0.0000	0.0000	OK
15 minute summer	4.000:50%	11	23.799	0.084	5.5	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	Channel Outlet	4.004	EX S1	14.7	1.392	0.189	0.0755	
15 minute summer	LDC J4	4.003	4.003:50%	9.8	0.840	0.495	0.0343	
15 minute summer	LDC J4	4.003	Channel Outlet	15.3	1.692	0.769	0.0352	
15 minute summer	LDC J3	4.002	4.002:50%	5.4	0.685	0.793	0.0156	
15 minute summer	LDC J3	4.002	LDC J4	9.9	1.262	1.461	0.0155	
15 minute summer	LDC J2	4.001	LDC J3	5.0	0.739	0.733	0.0313	
15 minute summer	LDC J1	4.000	4.000:50%	0.6	0.155	0.085	0.0118	
15 minute summer	LDC J1	4.000	LDC J2	5.1	0.879	0.754	0.0148	



Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

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 %)
30	0	0	0

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S1	13	23.862	1.182	16.5	1.3368	0.0000	FLOOD RISK
15 minute summer	1.000:50%	13	23.812	1.207	20.0	0.4462	0.0000	PONDING
15 minute summer	EX S2	10	23.820	1.135	25.2	1.2258	1.3150	FLOOD
15 minute summer	EX S3	9	23.740	1.209	44.2	1.3057	6.2214	FLOOD
15 minute summer	1.001:50%	10	23.740	1.242	28.2	0.0000	0.0000	SURCHARGED
15 minute summer	EX S4	10	23.760	1.238	15.6	1.4002	0.0991	FLOOD
15 minute summer	EX S5	10	23.739	1.273	67.4	1.3749	0.0000	FLOOD RISK
15 minute summer	EX S6	10	23.356	0.909	59.4	0.9812	0.0000	SURCHARGED
15 minute summer	EX S7	10	22.970	0.543	56.1	0.5864	0.0000	SURCHARGED
15 minute summer	EX S8	11	22.530	0.129	56.0	0.1457	0.0000	OK
480 minute winter	TW JNC 2903	368	19.883	1.772	6.7	2.0044	0.0000	OK
600 minute summer	TW 2930	435	19.883	1.803	15.3	10.5438	0.0000	OK
15 minute summer	TW 2930 Bend	1	19.882	1.829	0.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	EX S1	1.000	1.000:50%	18.4	1.047	1.036	0.1305	
15 minute winter	EX S1	1.000	EX S3	21.5	1.221	1.208	0.1305	
15 minute summer	EX S2	2.000	EX S4	15.6	0.885	0.677	0.1723	
15 minute winter	EX S3	1.001	1.001:50%	28.1	1.594	1.220	0.0343	
15 minute winter	EX S3	1.001	EX S5	30.7	1.744	1.336	0.0343	
15 minute summer	EX S4	2.001	EX S5	15.1	0.856	0.653	0.0586	
15 minute summer	EX S5	1.004	EX S6	59.4	3.373	2.593	0.0202	
15 minute summer	EX S6	1.005	EX S7	56.1	3.188	2.422	0.0208	
15 minute summer	EX S7	1.006	EX S8	56.0	3.200	2.455	0.0267	
15 minute summer	EX S8	1.007	TW 2930	56.0	3.633	0.952	0.3779	
15 minute winter	TW JNC 2903	3.000	TW 2930	-23.6	-0.249	-0.006	26.3814	
600 minute winter	TW 2930	3.001	TW 2930 Bend	5.5	0.002	0.001	71.8156	19.3

Results for 30 year Critical Storm Duration. Lowest mass balance: 98.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	Channel Outlet	10	23.900	0.410	18.2	0.0652	0.8367	FLOOD
15 minute summer	LDC J4	12	23.945	0.405	11.7	0.0000	0.0000	FLOOD RISK
15 minute summer	4.003:50%	11	23.936	0.421	19.7	0.0770	0.0000	PONDING
15 minute summer	LDC J3	12	24.054	0.414	5.9	0.4680	0.0000	FLOOD RISK
15 minute summer	4.002:50%	12	24.026	0.411	13.5	0.0400	0.0000	PONDING
15 minute summer	LDC J2	12	24.101	0.411	6.9	0.0000	0.0000	FLOOD RISK
15 minute summer	LDC J1	12	24.120	0.380	2.4	0.0000	0.0000	FLOOD RISK
15 minute summer	4.000:50%	12	24.119	0.404	9.8	0.0000	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	Channel Outlet	4.004	EX S1	16.5	1.681	0.212	0.0755	
15 minute summer	LDC J4	4.003	4.003:50%	12.0	0.907	0.606	0.0352	
15 minute summer	LDC J4	4.003	Channel Outlet	18.2	1.679	0.916	0.0352	
15 minute summer	LDC J3	4.002	4.002:50%	7.2	0.918	1.062	0.0156	
30 minute summer	LDC J3	4.002	LDC J4	11.7	1.499	1.734	0.0156	
15 minute summer	LDC J2	4.001	LDC J3	5.9	0.749	0.866	0.0313	
15 minute summer	LDC J1	4.000	4.000:50%	-2.4	-0.304	-0.352	0.0156	
15 minute summer	LDC J1	4.000	LDC J2	6.9	0.884	1.023	0.0156	



Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

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 %)
100	0	0	0

Results for 100 year Critical Storm Duration. Lowest mass balance: 98.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S1	13	23.863	1.183	17.5	1.3376	0.0000	FLOOD RISK
15 minute summer	1.000:50%	13	23.814	1.209	22.6	1.0738	0.0000	PONDING
15 minute summer	EX S2	9	23.820	1.135	33.0	1.2258	3.6373	FLOOD
30 minute summer	EX S3	16	23.740	1.209	51.7	1.3057	13.0715	FLOOD
15 minute summer	1.001:50%	9	23.755	1.256	30.7	0.0000	0.0000	SURCHARGED
15 minute summer	EX S4	9	23.760	1.238	15.2	1.4002	1.0453	FLOOD
15 minute summer	EX S5	9	23.757	1.291	67.0	1.3945	0.0000	FLOOD RISK
15 minute summer	EX S6	10	23.369	0.922	57.1	0.9954	0.0000	SURCHARGED
15 minute summer	EX S7	10	22.978	0.551	56.5	0.5951	0.0000	SURCHARGED
15 minute winter	EX S8	10	22.531	0.130	56.3	0.1469	0.0000	OK
480 minute summer	TW JNC 2903	272	19.886	1.775	10.1	2.0080	0.0000	OK
480 minute summer	TW 2930	272	19.885	1.805	25.8	10.5582	0.0000	OK
15 minute summer	TW 2930 Bend	1	19.882	1.829	0.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	EX S1	1.000	1.000:50%	21.2	1.205	1.192	0.1305	
30 minute summer	EX S1	1.000	EX S3	24.6	1.400	1.385	0.1305	
15 minute summer	EX S2	2.000	EX S4	15.2	0.921	0.661	0.1723	
30 minute summer	EX S3	1.001	1.001:50%	30.1	1.709	1.309	0.0343	
15 minute winter	EX S3	1.001	EX S5	32.4	1.843	1.411	0.0343	
15 minute winter	EX S4	2.001	EX S5	15.0	0.853	0.651	0.0586	
15 minute winter	EX S5	1.004	EX S6	58.2	3.308	2.543	0.0202	
15 minute summer	EX S6	1.005	EX S7	56.5	3.212	2.440	0.0208	
15 minute summer	EX S7	1.006	EX S8	56.4	3.248	2.474	0.0267	
15 minute summer	EX S8	1.007	TW 2930	57.2	3.632	0.972	0.4051	
15 minute winter	TW JNC 2903	3.000	TW 2930	-27.0	-0.268	-0.007	30.0184	
240 minute winter	TW 2930	3.001	TW 2930 Bend	32.1	0.012	0.008	71.8257	42.8

Results for 100 year Critical Storm Duration. Lowest mass balance: 98.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	Channel Outlet	17	23.900	0.410	18.7	0.0652	2.4701	FLOOD
15 minute summer	LDC J4	12	23.948	0.408	13.1	0.0000	0.0000	FLOOD RISK
15 minute summer	4.003:50%	12	23.939	0.424	24.5	0.6970	0.0000	PONDING
15 minute summer	LDC J3	11	24.080	0.440	9.1	0.4976	0.1301	FLOOD
15 minute summer	4.002:50%	13	24.030	0.415	19.3	1.0596	0.0000	PONDING
15 minute summer	LDC J2	11	24.197	0.507	9.6	0.0000	0.0000	FLOOD RISK
15 minute summer	LDC J1	11	24.253	0.513	3.3	0.0000	0.0000	FLOOD RISK
15 minute summer	4.000:50%	11	24.252	0.537	12.9	0.0000	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	Channel Outlet	4.004	EX S1	17.5	1.812	0.224	0.0755	
15 minute winter	LDC J4	4.003	4.003:50%	12.7	0.886	0.640	0.0352	
15 minute summer	LDC J4	4.003	Channel Outlet	19.5	1.703	0.980	0.0352	
30 minute summer	LDC J3	4.002	4.002:50%	8.0	1.025	1.186	0.0156	
15 minute summer	LDC J3	4.002	LDC J4	13.1	1.669	1.931	0.0156	
15 minute summer	LDC J2	4.001	LDC J3	9.1	1.168	1.352	0.0313	
15 minute summer	LDC J1	4.000	4.000:50%	-3.3	-0.423	-0.490	0.0156	
15 minute summer	LDC J1	4.000	LDC J2	9.6	1.227	1.420	0.0156	



Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

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 %)
100	40	0	0

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	EX S1	8	23.864	1.184	22.2	1.3393	0.0000	FLOOD RISK
30 minute summer	1.000:50%	22	23.816	1.211	24.4	2.2511	0.0000	PONDING
15 minute summer	EX S2	8	23.820	1.135	46.2	1.2258	7.8855	FLOOD
30 minute winter	EX S3	14	23.740	1.209	57.0	1.3057	24.9446	FLOOD
15 minute summer	1.001:50%	10	23.777	1.279	32.6	0.1679	0.0000	PONDING
15 minute summer	EX S4	8	23.760	1.238	23.3	1.4002	4.7643	FLOOD
15 minute summer	EX S5	10	23.785	1.319	76.6	1.4245	0.0000	FLOOD RISK
15 minute summer	EX S6	10	23.389	0.942	58.0	1.0172	0.0000	SURCHARGED
15 minute summer	EX S7	10	22.989	0.562	57.1	0.6072	0.0000	SURCHARGED
30 minute winter	EX S8	17	22.531	0.130	56.4	0.1471	0.0000	OK
240 minute summer	TW JNC 2903	132	19.895	1.784	18.3	2.0177	0.0000	OK
240 minute summer	TW 2930	132	19.892	1.812	74.8	10.5976	0.0000	OK
15 minute summer	TW 2930 Bend	1	19.882	1.829	0.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S1	1.000	1.000:50%	24.5	1.390	1.375	0.1305	
15 minute winter	EX S1	1.000	EX S3	29.5	1.673	1.655	0.1305	
15 minute winter	EX S2	2.000	EX S4	15.0	0.981	0.653	0.1723	
15 minute winter	EX S3	1.001	1.001:50%	32.1	1.826	1.398	0.0343	
15 minute winter	EX S3	1.001	EX S5	34.1	1.938	1.484	0.0343	
15 minute winter	EX S4	2.001	EX S5	14.9	0.847	0.646	0.0586	
15 minute summer	EX S5	1.004	EX S6	58.0	3.294	2.532	0.0202	
15 minute summer	EX S6	1.005	EX S7	57.1	3.245	2.466	0.0208	
15 minute summer	EX S7	1.006	EX S8	57.1	3.287	2.505	0.0266	
30 minute summer	EX S8	1.007	TW 2930	57.3	3.633	0.975	0.4058	
30 minute winter	TW JNC 2903	3.000	TW 2930	-30.9	-0.233	-0.008	53.4884	
240 minute summer	TW 2930	3.001	TW 2930 Bend	97.0	0.037	0.024	71.8752	109.0

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	Channel Outlet	15	23.900	0.410	19.2	0.0652	5.1847	FLOOD
15 minute summer	LDC J4	12	23.951	0.411	17.2	0.0000	0.0000	FLOOD RISK
15 minute summer	4.003:50%	12	23.941	0.426	29.7	1.9425	0.0000	PONDING
30 minute summer	LDC J3	17	24.080	0.440	9.9	0.4976	0.8177	FLOOD
30 minute summer	4.002:50%	23	24.032	0.417	23.4	2.7480	0.0000	PONDING
15 minute summer	LDC J2	10	24.200	0.510	10.7	0.0000	0.0000	FLOOD RISK
15 minute summer	LDC J1	11	24.277	0.537	3.7	0.0000	0.0000	FLOOD RISK
15 minute summer	4.000:50%	12	24.274	0.559	19.2	0.8833	0.0000	PONDING

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	Channel Outlet	4.004	EX S1	22.2	1.909	0.285	0.0755	
15 minute winter	LDC J4	4.003	4.003:50%	18.9	1.071	0.949	0.0352	
15 minute winter	LDC J4	4.003	Channel Outlet	20.4	1.683	1.028	0.0352	
15 minute winter	LDC J3	4.002	4.002:50%	10.1	1.291	1.494	0.0156	
15 minute winter	LDC J3	4.002	LDC J4	17.4	2.226	2.576	0.0156	
15 minute summer	LDC J2	4.001	LDC J3	9.9	1.264	1.463	0.0313	
15 minute winter	LDC J1	4.000	4.000:50%	-3.8	-0.482	-0.558	0.0156	
15 minute summer	LDC J1	4.000	LDC J2	10.7	1.362	1.576	0.0156	



Simulation Settings

Rainfall Methodology	FSR	Summer CV	1.000	Drain Down Time (mins)	240
FSR Region	England and Wales	Winter CV	1.000	Additional Storage (m³/ha)	0.0
M5-60 (mm)	21.000	Analysis Speed	Normal	Check Discharge Rate(s)	x
Ratio-R	0.432	Skip Steady State	x	Check Discharge Volume	x

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 %)
1	0	0	0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	EX S1	11	23.077	0.397	9.8	0.4491	0.0000	SURCHARGED
15 minute summer	1.000:50%	11	23.056	0.451	10.3	0.0000	0.0000	SURCHARGED
15 minute summer	EX S2	11	22.995	0.310	8.8	0.3345	0.0000	SURCHARGED
15 minute summer	EX S3	11	23.030	0.499	16.8	0.5386	0.0000	SURCHARGED
15 minute summer	1.001:50%	11	23.002	0.503	18.0	0.0000	0.0000	SURCHARGED
15 minute summer	EX S4	11	22.977	0.455	6.9	0.5143	0.0000	SURCHARGED
15 minute summer	EX S5	11	22.970	0.504	35.3	0.5439	0.0000	SURCHARGED
15 minute summer	EX S6	12	22.824	0.377	34.6	0.4076	0.0000	SURCHARGED
15 minute summer	EX S7	12	22.685	0.258	34.1	0.2785	0.0000	SURCHARGED
15 minute summer	EX S8	12	22.487	0.086	34.1	0.0971	0.0000	OK
2880 minute winter	TW JNC 2903	2940	19.090	0.979	0.4	1.1072	0.0000	OK
2880 minute winter	TW 2930	2940	19.090	1.010	1.3	5.9069	0.0000	OK
15 minute summer	TW 2930 Bend	1	19.882	1.829	0.0	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	EX S1	1.000	1.000:50%	8.4	0.686	0.474	0.1305	
15 minute summer	EX S1	1.000	EX S3	10.7	0.606	0.599	0.1305	
15 minute summer	EX S2	2.000	EX S4	6.9	0.776	0.301	0.1723	
15 minute summer	EX S3	1.001	1.001:50%	16.2	0.921	0.705	0.0343	
15 minute summer	EX S3	1.001	EX S5	18.3	1.042	0.798	0.0343	
15 minute summer	EX S4	2.001	EX S5	6.6	0.373	0.284	0.0586	
15 minute summer	EX S5	1.004	EX S6	34.6	1.968	1.512	0.0202	
15 minute summer	EX S6	1.005	EX S7	34.1	1.935	1.470	0.0208	
15 minute summer	EX S7	1.006	EX S8	34.1	2.165	1.493	0.0222	
15 minute summer	EX S8	1.007	TW 2930	34.2	3.370	0.581	0.2487	
15 minute winter	TW JNC 2903	3.000	TW 2930	-12.9	-0.220	-0.003	9.8437	
15 minute summer	TW 2930	3.001	TW 2930 Bend	0.0	0.000	0.000	40.5212	0.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	Channel Outlet	10	23.526	0.036	9.9	0.0057	0.0000	OK
15 minute summer	LDC J4	10	23.608	0.068	6.5	0.0000	0.0000	OK
15 minute summer	4.003:50%	10	23.595	0.080	9.9	0.0000	0.0000	OK
15 minute summer	LDC J3	10	23.702	0.062	3.3	0.0706	0.0000	OK
15 minute summer	4.002:50%	10	23.695	0.080	6.6	0.0000	0.0000	OK
15 minute summer	LDC J2	10	23.744	0.054	3.4	0.0000	0.0000	OK
15 minute summer	LDC J1	10	23.766	0.026	0.2	0.0000	0.0000	OK
15 minute summer	4.000:50%	10	23.766	0.051	3.4	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	Channel Outlet	4.004	EX S1	9.8	1.394	0.126	0.0447	
15 minute summer	LDC J4	4.003	4.003:50%	6.5	0.767	0.326	0.0174	
15 minute summer	LDC J4	4.003	Channel Outlet	9.9	1.563	0.496	0.0128	
15 minute summer	LDC J3	4.002	4.002:50%	3.3	0.592	0.487	0.0118	
15 minute summer	LDC J3	4.002	LDC J4	6.5	0.985	0.958	0.0136	
15 minute summer	LDC J2	4.001	LDC J3	3.3	0.720	0.494	0.0188	
15 minute summer	LDC J1	4.000	4.000:50%	-0.2	-0.141	-0.035	0.0056	
15 minute summer	LDC J1	4.000	LDC J2	3.4	0.821	0.498	0.0083	

