Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	40	Minimum Backdrop Height (m)	0.200
CV	1.000	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		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
MH-0001-S			38.650	1200	620.127	351.937	1.140
MH-0002-S	0.015	5.00	38.800	1200	620.611	359.942	1.200
MH-0003-S	0.079	5.00	39.800	1200	621.971	372.544	2.100
MH-0004-S	0.025	5.00	39.765	1200	625.149	400.430	1.965
MH-0005-S	0.026	5.00	39.775	1200	595.712	409.009	1.755
MH-0006-S	0.101	5.00	39.800	1200	582.528	384.049	1.640
MH-0007-S	0.040	5.00	39.780	1200	627.601	421.961	1.820
IC-0008-S	0.052	5.00	39.800	1200	582.890	427.052	0.600

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
PN-0001-S	MH-0002-S	MH-0001-S	8.020	0.600	37.600	37.510	0.090	89.1	150	6.56	50.0
PN-0002-S	MH-0003-S	MH-0002-S	12.675	0.600	37.700	37.600	0.100	126.8	150	6.43	50.0
PN-0003-S	MH-0004-S	MH-0003-S	28.067	0.600	37.800	37.700	0.100	280.7	300	6.19	50.0
PN-0005-S	MH-0005-S	MH-0004-S	30.662	0.600	38.020	37.800	0.220	139.4	150	5.60	50.0
PN-0006-S	MH-0006-S	MH-0003-S	41.087	0.600	38.160	37.700	0.460	89.3	225	5.49	50.0
PN-0007-S	IC-0008-S	MH-0007-S	45.000	0.600	39.200	38.380	0.820	54.9	225	5.42	50.0
PN-0004-S	MH-0007-S	MH-0004-S	21.670	0.600	37.960	37.800	0.160	135.4	300	5.69	50.0

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)
PN-0001-S	1.065	18.8	85.5	1.050	0.990	0.338	0.0	150	1.085
PN-0002-S	0.891	15.7	81.7	1.950	1.050	0.323	0.0	150	0.908
PN-0003-S	0.933	66.0	36.2	1.665	1.800	0.143	0.0	158	0.954
PN-0005-S	0.849	15.0	6.6	1.605	1.815	0.026	0.0	69	0.821
PN-0006-S	1.384	55.0	25.6	1.415	1.875	0.101	0.0	108	1.359
PN-0007-S	1.769	70.3	13.2	0.375	1.175	0.052	0.0	65	1.361
PN-0004-S	1.349	95.4	23.3	1.520	1.665	0.092	0.0	100	1.119

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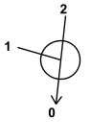
Pipeline Schedule

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)
PN-0001-S	8.020	89.1	150	Circular	38.800	37.600	1.050	38.650	37.510	0.990
PN-0002-S	12.675	126.8	150	Circular	39.800	37.700	1.950	38.800	37.600	1.050
PN-0003-S	28.067	280.7	300	Circular	39.765	37.800	1.665	39.800	37.700	1.800
PN-0005-S	30.662	139.4	150	Circular	39.775	38.020	1.605	39.765	37.800	1.815
PN-0006-S	41.087	89.3	225	Circular	39.800	38.160	1.415	39.800	37.700	1.875
PN-0007-S	45.000	54.9	225	Circular	39.800	39.200	0.375	39.780	38.380	1.175
PN-0004-S	21.670	135.4	300	Circular	39.780	37.960	1.520	39.765	37.800	1.665

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
PN-0001-S	MH-0002-S	1200	Manhole	Adoptable	MH-0001-S	1200	Manhole	Adoptable
PN-0002-S	MH-0003-S	1200	Manhole	Adoptable	MH-0002-S	1200	Manhole	Adoptable
PN-0003-S	MH-0004-S	1200	Manhole	Adoptable	MH-0003-S	1200	Manhole	Adoptable
PN-0005-S	MH-0005-S	1200	Manhole	Adoptable	MH-0004-S	1200	Manhole	Adoptable
PN-0006-S	MH-0006-S	1200	Manhole	Adoptable	MH-0003-S	1200	Manhole	Adoptable
PN-0007-S	IC-0008-S	1200	Manhole	Adoptable	MH-0007-S	1200	Manhole	Adoptable
PN-0004-S	MH-0007-S	1200	Manhole	Adoptable	MH-0004-S	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections		Link	IL (m)	Dia (mm)
MH-0001-S	620.127	351.937	38.650	1.140	1200		1	PN-0001-S	37.510	150
MH-0002-S	620.611	359.942	38.800	1.200	1200		1	PN-0002-S	37.600	150
							0	PN-0001-S	37.600	150
MH-0003-S	621.971	372.544	39.800	2.100	1200		1	PN-0006-S	37.700	225
							2	PN-0003-S	37.700	300
							0	PN-0002-S	37.700	150
MH-0004-S	625.149	400.430	39.765	1.965	1200		1	PN-0005-S	37.800	150
							2	PN-0004-S	37.800	300
							0	PN-0003-S	37.800	300
MH-0005-S	595.712	409.009	39.775	1.755	1200		0	PN-0005-S	38.020	150
MH-0006-S	582.528	384.049	39.800	1.640	1200		0	PN-0006-S	38.160	225

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH-0007-S	627.601	421.961	39.780	1.820	1200	1	PN-0007-S	38.380	225
									
						0	PN-0004-S	37.960	300
IC-0008-S	582.890	427.052	39.800	0.600	1200				
						0	PN-0007-S	39.200	225

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)	1440	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
5	0	0	0
10	0	0	0
30	0	0	0
30	35	0	0
100	0	0	0
100	40	0	0
100	40	10	0

Node MH-0003-S Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	37.700	Product Number	CTL-SHE-0043-1200-2100-1200
Design Depth (m)	2.100	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.2	Min Node Diameter (mm)	1200

Node MH-0003-S Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	37.700
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	95.0	0.0	1.200	95.0	0.0	1.201	0.0	0.0

Node MH-0003-S Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	37.700
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

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Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	13.5	0.0	1.200	13.5	0.0	1.201	0.0	0.0

Node MH-0004-S Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	37.800
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	100.0	0.0	1.200	100.0	0.0	1.201	0.0	0.0

Node MH-0004-S Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	37.800
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	145.0	0.0	0.800	145.0	0.0	0.801	0.0	0.0

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Results for 2 year Critical Storm Duration. Lowest mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH-0001-S	11	37.549	0.039	2.8	0.0000	0.0000	OK
15 minute summer	MH-0002-S	11	37.641	0.041	2.8	0.0463	0.0000	OK
600 minute winter	MH-0003-S	585	37.980	0.280	3.6	29.1796	0.0000	SURCHARGED
600 minute winter	MH-0004-S	585	37.980	0.180	3.9	42.1040	0.0000	OK
15 minute summer	MH-0005-S	10	38.085	0.065	4.4	0.0732	0.0000	OK
15 minute summer	MH-0006-S	10	38.254	0.094	17.0	0.1060	0.0000	OK
15 minute summer	MH-0007-S	9	38.061	0.101	15.1	0.1142	0.0000	OK
15 minute summer	IC-0008-S	10	39.253	0.053	8.7	0.0602	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	MH-0002-S	PN-0001-S	MH-0001-S	2.8	0.746	0.149	0.0302	22.7
600 minute winter	MH-0003-S	PN-0002-S	MH-0002-S	0.7	0.463	0.044	0.0212	
600 minute winter	MH-0004-S	PN-0003-S	MH-0003-S	-1.1	0.082	-0.017	1.5797	
15 minute summer	MH-0005-S	PN-0005-S	MH-0004-S	4.4	1.124	0.294	0.1334	
15 minute summer	MH-0006-S	PN-0006-S	MH-0003-S	17.1	1.593	0.311	0.5393	
15 minute summer	MH-0007-S	PN-0004-S	MH-0004-S	15.3	1.575	0.161	0.2400	
15 minute summer	IC-0008-S	PN-0007-S	MH-0007-S	8.5	1.196	0.120	0.3184	

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Results for 5 year Critical Storm Duration. Lowest mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH-0001-S	10	37.564	0.054	5.2	0.0000	0.0000	OK
15 minute summer	MH-0002-S	10	37.657	0.057	5.3	0.0647	0.0000	OK
720 minute summer	MH-0003-S	735	38.105	0.405	6.8	42.1585	0.0000	SURCHARGED
720 minute summer	MH-0004-S	735	38.105	0.305	7.9	71.2374	0.0000	SURCHARGED
15 minute summer	MH-0005-S	10	38.108	0.088	8.1	0.0997	0.0000	OK
15 minute summer	MH-0006-S	10	38.289	0.129	31.4	0.1456	0.0000	OK
720 minute summer	MH-0007-S	735	38.105	0.145	3.5	0.1635	0.0000	OK
15 minute summer	IC-0008-S	10	39.274	0.074	16.2	0.0834	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	MH-0002-S	PN-0001-S	MH-0001-S	5.2	0.878	0.275	0.0474	42.5
720 minute summer	MH-0003-S	PN-0002-S	MH-0002-S	0.7	0.462	0.044	0.0236	
720 minute summer	MH-0004-S	PN-0003-S	MH-0003-S	-2.5	0.074	-0.038	1.9765	
15 minute summer	MH-0005-S	PN-0005-S	MH-0004-S	8.1	1.244	0.541	0.2231	
15 minute summer	MH-0006-S	PN-0006-S	MH-0003-S	31.5	1.700	0.573	1.0135	
720 minute summer	MH-0007-S	PN-0004-S	MH-0004-S	3.5	0.563	0.037	1.1269	
15 minute summer	IC-0008-S	PN-0007-S	MH-0007-S	15.8	1.422	0.225	0.5008	

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Results for 10 year Critical Storm Duration. Lowest mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH-0001-S	10	37.572	0.062	6.7	0.0000	0.0000	OK
15 minute summer	MH-0002-S	10	37.666	0.066	6.7	0.0748	0.0000	OK
600 minute winter	MH-0003-S	600	38.189	0.489	6.4	50.9984	0.0000	SURCHARGED
600 minute winter	MH-0004-S	600	38.189	0.389	7.5	91.0754	0.0000	SURCHARGED
600 minute winter	MH-0005-S	600	38.189	0.169	0.9	0.1916	0.0000	SURCHARGED
15 minute summer	MH-0006-S	10	38.313	0.153	41.3	0.1728	0.0000	OK
600 minute winter	MH-0007-S	600	38.189	0.229	3.3	0.2595	0.0000	OK
15 minute summer	IC-0008-S	10	39.286	0.086	21.3	0.0969	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	MH-0002-S	PN-0001-S	MH-0001-S	6.7	0.934	0.354	0.0572	54.8
600 minute winter	MH-0003-S	PN-0002-S	MH-0002-S	0.7	0.456	0.044	0.0228	
600 minute winter	MH-0004-S	PN-0003-S	MH-0003-S	-2.4	0.090	-0.036	1.9765	
600 minute winter	MH-0005-S	PN-0005-S	MH-0004-S	0.9	0.411	0.060	0.5398	
15 minute summer	MH-0006-S	PN-0006-S	MH-0003-S	41.4	1.741	0.753	1.2615	
600 minute winter	MH-0007-S	PN-0004-S	MH-0004-S	3.3	0.604	0.035	1.3894	
15 minute summer	IC-0008-S	PN-0007-S	MH-0007-S	20.9	1.533	0.296	0.6131	

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH-0001-S	10	37.583	0.073	9.0	0.0000	0.0000	OK
15 minute summer	MH-0002-S	10	37.679	0.079	9.1	0.0896	0.0000	OK
720 minute winter	MH-0003-S	720	38.324	0.624	7.1	65.0213	0.0000	SURCHARGED
720 minute winter	MH-0004-S	720	38.324	0.524	8.2	122.5496	0.0000	SURCHARGED
720 minute winter	MH-0005-S	720	38.324	0.304	1.0	0.3438	0.0000	SURCHARGED
15 minute summer	MH-0006-S	10	38.365	0.205	56.8	0.2316	0.0000	OK
720 minute winter	MH-0007-S	720	38.324	0.364	3.6	0.4117	0.0000	SURCHARGED
15 minute summer	IC-0008-S	10	39.303	0.103	29.3	0.1162	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	MH-0002-S	PN-0001-S	MH-0001-S	9.0	1.004	0.478	0.0718	62.7
720 minute winter	MH-0003-S	PN-0002-S	MH-0002-S	0.7	0.463	0.044	0.0233	
720 minute winter	MH-0004-S	PN-0003-S	MH-0003-S	-2.8	0.093	-0.043	1.9765	
720 minute winter	MH-0005-S	PN-0005-S	MH-0004-S	1.0	0.411	0.067	0.5398	
15 minute summer	MH-0006-S	PN-0006-S	MH-0003-S	56.0	1.764	1.019	1.5722	
720 minute winter	MH-0007-S	PN-0004-S	MH-0004-S	3.5	0.604	0.036	1.5260	
15 minute summer	IC-0008-S	PN-0007-S	MH-0007-S	28.7	1.665	0.409	0.7777	

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Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH-0001-S	10	37.597	0.087	12.0	0.0000	0.0000	OK
15 minute summer	MH-0002-S	10	37.696	0.096	12.1	0.1081	0.0000	OK
960 minute winter	MH-0003-S	945	38.544	0.844	7.5	87.8981	0.0000	SURCHARGED
960 minute winter	MH-0004-S	945	38.544	0.744	8.7	173.8960	0.0000	SURCHARGED
960 minute winter	MH-0005-S	945	38.544	0.524	1.1	0.5921	0.0000	SURCHARGED
15 minute summer	MH-0006-S	11	38.944	0.784	76.7	0.8866	0.0000	SURCHARGED
960 minute winter	MH-0007-S	945	38.544	0.584	3.9	0.6600	0.0000	SURCHARGED
15 minute summer	IC-0008-S	10	39.323	0.123	39.5	0.1394	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	MH-0002-S	PN-0001-S	MH-0001-S	12.0	1.070	0.636	0.0897	63.3
960 minute winter	MH-0003-S	PN-0002-S	MH-0002-S	0.8	0.482	0.050	0.0232	
960 minute winter	MH-0004-S	PN-0003-S	MH-0003-S	-3.0	0.088	-0.045	1.9765	
960 minute winter	MH-0005-S	PN-0005-S	MH-0004-S	1.1	0.422	0.071	0.5398	
15 minute summer	MH-0006-S	PN-0006-S	MH-0003-S	73.3	1.844	1.332	1.6341	
960 minute winter	MH-0007-S	PN-0004-S	MH-0004-S	3.8	0.579	0.040	1.5260	
15 minute summer	IC-0008-S	PN-0007-S	MH-0007-S	38.8	1.790	0.552	0.9769	

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Results for 100 year Critical Storm Duration. Lowest mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH-0001-S	10	37.595	0.085	11.6	0.0000	0.0000	OK
15 minute summer	MH-0002-S	10	37.693	0.093	11.7	0.1056	0.0000	OK
960 minute winter	MH-0003-S	945	38.491	0.791	7.0	82.3970	0.0000	SURCHARGED
960 minute winter	MH-0004-S	945	38.491	0.691	8.1	161.5518	0.0000	SURCHARGED
960 minute winter	MH-0005-S	945	38.491	0.471	1.0	0.5324	0.0000	SURCHARGED
15 minute summer	MH-0006-S	11	38.865	0.705	73.8	0.7977	0.0000	SURCHARGED
960 minute winter	MH-0007-S	945	38.491	0.531	3.6	0.6003	0.0000	SURCHARGED
15 minute summer	IC-0008-S	10	39.320	0.120	38.1	0.1362	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	MH-0002-S	PN-0001-S	MH-0001-S	11.6	1.062	0.614	0.0873	63.4
960 minute winter	MH-0003-S	PN-0002-S	MH-0002-S	0.8	0.478	0.049	0.0226	
960 minute winter	MH-0004-S	PN-0003-S	MH-0003-S	-2.8	0.091	-0.042	1.9765	
960 minute winter	MH-0005-S	PN-0005-S	MH-0004-S	1.0	0.422	0.064	0.5398	
15 minute summer	MH-0006-S	PN-0006-S	MH-0003-S	70.6	1.774	1.282	1.6341	
960 minute winter	MH-0007-S	PN-0004-S	MH-0004-S	3.5	0.579	0.036	1.5260	
15 minute summer	IC-0008-S	PN-0007-S	MH-0007-S	37.4	1.775	0.532	0.9497	

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Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH-0001-S	10	37.615	0.105	15.9	0.0000	0.0000	OK
15 minute summer	MH-0002-S	10	37.719	0.119	16.1	0.1343	0.0000	OK
1440 minute winter	MH-0003-S	1410	38.992	1.292	6.7	125.2030	0.0000	SURCHARGED
1440 minute winter	MH-0004-S	1410	38.992	1.192	7.8	224.8772	0.0000	SURCHARGED
1440 minute winter	MH-0005-S	1410	38.992	0.972	1.0	1.0996	0.0000	SURCHARGED
15 minute summer	MH-0006-S	11	39.800	1.640	103.4	1.8548	0.0016	FLOOD
1440 minute winter	MH-0007-S	1410	38.992	1.032	3.5	1.1674	0.0000	SURCHARGED
15 minute summer	IC-0008-S	10	39.351	0.151	53.2	0.1706	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	MH-0002-S	PN-0001-S	MH-0001-S	15.9	1.127	0.844	0.1129	59.8
1440 minute winter	MH-0003-S	PN-0002-S	MH-0002-S	1.0	0.509	0.061	0.0246	
1440 minute winter	MH-0004-S	PN-0003-S	MH-0003-S	-2.5	0.084	-0.037	1.9765	
1440 minute winter	MH-0005-S	PN-0005-S	MH-0004-S	1.0	0.388	0.064	0.5398	
15 minute summer	MH-0006-S	PN-0006-S	MH-0003-S	98.7	2.483	1.794	1.6341	
1440 minute winter	MH-0007-S	PN-0004-S	MH-0004-S	3.5	0.536	0.036	1.5260	
15 minute summer	IC-0008-S	PN-0007-S	MH-0007-S	52.4	1.909	0.744	1.2368	

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Results for 100 year +40% CC +10% A Critical Storm Duration. Lowest mass balance: 99.49%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	MH-0001-S	11	37.621	0.111	17.1	0.0000	0.0000	OK
15 minute summer	MH-0002-S	10	37.727	0.127	17.3	0.1435	0.0000	OK
480 minute summer	MH-0003-S	432	39.767	2.067	29.4	126.0790	0.0000	FLOOD RISK
960 minute winter	MH-0004-S	735	39.765	1.965	12.7	226.5388	27.3312	FLOOD
480 minute summer	MH-0005-S	432	39.770	1.750	4.3	1.9791	0.0000	FLOOD RISK
15 minute summer	MH-0006-S	10	39.800	1.640	113.9	1.8548	1.4544	FLOOD
480 minute summer	MH-0007-S	440	39.766	1.806	15.1	2.0430	0.0000	FLOOD RISK
480 minute summer	IC-0008-S	440	39.771	0.571	8.5	0.6455	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	MH-0002-S	PN-0001-S	MH-0001-S	17.1	1.140	0.907	0.1199	59.8
480 minute summer	MH-0003-S	PN-0002-S	MH-0002-S	1.2	0.539	0.075	0.0370	
960 minute winter	MH-0004-S	PN-0003-S	MH-0003-S	-4.2	0.094	-0.064	1.9765	
480 minute summer	MH-0005-S	PN-0005-S	MH-0004-S	4.1	0.624	0.275	0.5398	
15 minute summer	MH-0006-S	PN-0006-S	MH-0003-S	100.1	2.518	1.820	1.6341	
480 minute summer	MH-0007-S	PN-0004-S	MH-0004-S	14.9	0.830	0.157	1.5260	
480 minute summer	IC-0008-S	PN-0007-S	MH-0007-S	8.5	1.197	0.121	1.7897	

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