

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	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
N2-MH1	0.774	5.00		38.550	1200	479489.767	173746.276	2.313
N2-HW1	0.065	5.00		37.500	1350	479475.899	173741.385	1.300
N2-HW2				37.500	1500	479456.386	173732.315	1.343
N2-HW3	0.096	5.00		37.304		479447.982	173729.327	1.200
N2-SW1	0.096	5.00		37.290		479443.630	173726.067	1.200
N2-SW2	0.160	5.00		37.300		479429.146	173715.133	1.255
N2-SW3	0.103	5.00		37.346		479394.865	173695.990	1.399
N2-SW4				37.500		479387.901	173691.958	1.573
N2-HW4				37.500		479383.328	173686.937	1.590
N2-MH2	1.479	5.00		38.100	1500	479412.470	173620.673	1.200
N2-MH3				38.100	1500	479420.446	173628.489	1.567
N2-MH4				37.800	1500	479405.419	173648.674	1.492
N2-MH5				37.800	1500	479408.872	173657.060	1.530
N2-MH6				37.750	1500	479376.672	173677.481	1.869
N2-HW5	0.244	5.00		38.000	1500	479371.285	173670.012	2.142
N2-HW6				38.000	1500	479363.186	173644.910	2.195
N2-MH7				37.700	1500	479356.415	173638.780	1.918
N2-MH8			7.0	37.500	1500	479338.395	173624.463	1.776
N2-MH9				37.500	1500	479342.920	173609.415	1.815
N2-HW7				37.400	1500	479332.474	173606.007	1.742

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)
1.000	N2-MH1	N2-HW1	14.705	0.600	36.237	36.200	0.037	397.4	450	5.24	49.8
1.001	N2-HW1	N2-HW2	21.518	0.600	36.200	36.157	0.043	500.4	450	5.64	48.3
1.002	N2-HW2	N2-HW3	8.919	0.600	36.157	36.104	0.053	168.3	225	5.79	47.8
1.003	N2-HW3	N2-SW1	5.438	0.030	36.104	36.090	0.014	388.4	500	5.91	47.4
1.004	N2-SW1	N2-SW2	18.148	0.030	36.090	36.045	0.045	403.3	500	6.35	45.9
1.005	N2-SW2	N2-SW3	39.264	0.030	36.045	35.947	0.098	400.7	1200	6.90	44.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.000	1.013	161.2	104.5	1.863	0.850	0.774	0.0
1.001	0.902	143.4	109.8	0.850	0.893	0.839	0.0
1.002	1.005	40.0	108.7	1.118	0.975	0.839	0.0
1.003	0.712	711.9	120.1	0.700	0.700	0.935	0.0
1.004	0.699	698.6	128.3	0.700	0.755	1.031	0.0
1.005	1.195	5881.5	142.7	0.055	0.199	1.191	0.0

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)
1.006	N2-SW3	N2-SW4	8.047	0.030	35.947	35.927	0.020	402.4	500	7.09	43.6
1.007	N2-SW4	N2-HW4	6.831	0.030	35.927	35.910	0.017	401.8	500	7.25	43.1
1.008	N2-HW4	N2-MH6	11.525	0.600	35.910	35.881	0.029	397.4	600	7.41	42.9
2.000	N2-MH2	N2-MH3	11.093	0.600	36.900	36.553	0.347	32.0	300	5.07	50.0
2.001	N2-MH3	N2-MH4	25.164	0.600	36.533	36.308	0.225	111.8	300	5.35	49.4
2.002	N2-MH4	N2-MH5	9.069	0.600	36.308	36.270	0.038	238.7	300	5.50	48.8
2.003	N2-MH5	N2-MH6	38.129	0.600	36.270	36.108	0.162	235.4	300	6.12	47.3
1.009	N2-MH6	N2-HW5	9.209	0.600	35.881	35.858	0.023	400.4	600	7.53	42.4
1.010	N2-HW5	N2-HW6	26.376	0.600	35.858	35.805	0.053	497.7	450	8.02	40.6
1.011	N2-HW6	N2-MH7	9.134	0.600	35.805	35.782	0.023	397.1	450	8.17	40.1
1.012	N2-MH7	N2-MH8	23.015	0.600	35.782	35.724	0.058	396.8	450	8.55	38.8
1.013	N2-MH8	N2-MH9	15.714	0.600	35.724	35.685	0.039	402.9	450	8.81	38.1
1.014	N2-MH9	N2-HW7	10.988	0.600	35.685	35.658	0.027	407.0	450	8.99	37.6

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
1.006	0.699	699.4	152.9	0.899	1.073	1.294	0.0
1.007	0.700	699.9	151.2	1.073	1.090	1.294	0.0
1.008	1.215	343.6	150.5	0.990	1.269	1.294	0.0
2.000	2.790	197.2	200.4	0.900	1.247	1.479	0.0
2.001	1.486	105.0	198.0	1.267	1.192	1.479	0.0
2.002	1.013	71.6	195.6	1.192	1.230	1.479	0.0
2.003	1.020	72.1	189.6	1.230	1.342	1.479	0.0
1.009	1.211	342.3	318.7	1.269	1.542	2.773	0.0
1.010	0.904	143.8	332.0	1.692	1.745	3.017	0.0
1.011	1.014	161.2	327.9	1.745	1.468	3.017	0.0
1.012	1.014	161.3	317.3	1.468	1.326	3.017	0.0
1.013	1.006	160.1	318.6	1.326	1.365	3.017	7.0
1.014	1.001	159.3	314.5	1.365	1.292	3.017	7.0

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	20.0
Summer CV	0.750	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	0.840	Drain Down Time (mins)	1440	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
10	0	0	0
30	35	0	0
100	40	0	0

Node N2-HW2 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	36.157	Product Number	CTL-SHE-0191-1850-1100-1850
Design Depth (m)	1.100	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	18.5	Min Node Diameter (mm)	1500

Node N2-MH7 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	35.782	Product Number	CTL-SHE-0132-1010-2000-1010
Design Depth (m)	2.000	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	10.1	Min Node Diameter (mm)	1500

Node N2-HW1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	36.200
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	450.0	0.0	1.300	791.1	0.0

Node N2-MH2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	36.900
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	63

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	720.0	0.0	0.700	720.0	0.0	0.701	0.0	0.0

Node N2-HW5 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	35.858
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	538.0	0.0	2.142	1196.1	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 winter	N2-MH1	8	36.780	0.543	101.3	4.2461	0.0000	SURCHARGED
480 minute winter	N2-HW1	464	36.410	0.210	16.5	101.0203	0.0000	OK
480 minute winter	N2-HW2	464	36.410	0.253	9.3	0.4478	0.0000	SURCHARGED
480 minute winter	N2-HW3	456	36.357	0.253	10.8	0.4054	0.0000	OK
480 minute winter	N2-SW1	456	36.357	0.267	12.3	0.4278	0.0000	OK
480 minute winter	N2-SW2	456	36.357	0.312	14.5	0.7966	0.0000	OK
480 minute winter	N2-SW3	448	36.357	0.410	15.0	0.6041	0.0000	OK
480 minute winter	N2-SW4	448	36.357	0.430	13.4	0.0000	0.0000	OK
480 minute winter	N2-HW4	448	36.357	0.447	12.9	0.0000	0.0000	OK
120 minute summer	N2-MH2	72	37.014	0.114	92.4	85.0843	0.0000	OK
120 minute summer	N2-MH3	72	36.691	0.158	52.3	0.2787	0.0000	OK
120 minute summer	N2-MH4	74	36.525	0.217	52.3	0.3840	0.0000	OK
120 minute summer	N2-MH5	74	36.467	0.197	52.2	0.3486	0.0000	OK
480 minute winter	N2-MH6	448	36.357	0.476	38.9	0.8417	0.0000	OK
480 minute winter	N2-HW5	448	36.357	0.499	43.2	308.9545	0.0000	SURCHARGED
480 minute winter	N2-HW6	448	36.357	0.552	10.1	0.9753	0.0000	SURCHARGED
480 minute winter	N2-MH7	432	36.357	0.575	11.1	1.0161	0.0000	SURCHARGED
480 minute winter	N2-MH8	456	35.828	0.104	16.9	0.1832	0.0000	OK
480 minute winter	N2-MH9	456	35.786	0.101	16.9	0.1790	0.0000	OK
480 minute winter	N2-HW7	456	35.746	0.088	16.9	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 winter	N2-MH1	1.000	N2-HW1	134.6	2.204	0.835	1.1784	
480 minute winter	N2-HW1	1.001	N2-HW2	9.3	0.156	0.065	1.7714	
480 minute winter	N2-HW2	1.002	N2-HW3	9.2	0.742	0.231	0.3441	
480 minute winter	N2-HW3	1.003	N2-SW1	10.6	0.195	0.015	1.8152	
480 minute winter	N2-SW1	1.004	N2-SW2	11.6	0.205	0.017	7.2340	
480 minute winter	N2-SW2	1.005	N2-SW3	13.0	0.184	0.002	22.7628	
480 minute winter	N2-SW3	1.006	N2-SW4	13.4	0.177	0.019	5.9605	
480 minute winter	N2-SW4	1.007	N2-HW4	12.9	0.151	0.018	5.4482	
480 minute winter	N2-HW4	1.008	N2-MH6	12.4	0.309	0.036	2.6814	
120 minute summer	N2-MH2	2.000	N2-MH3	52.3	1.867	0.265	0.3111	
120 minute summer	N2-MH3	2.001	N2-MH4	52.3	1.129	0.498	1.1596	
120 minute summer	N2-MH4	2.002	N2-MH5	52.2	1.007	0.729	0.4706	
120 minute summer	N2-MH5	2.003	N2-MH6	52.3	1.129	0.725	1.7635	
480 minute winter	N2-MH6	1.009	N2-HW5	38.5	0.696	0.112	2.2590	
480 minute winter	N2-HW5	1.010	N2-HW6	10.1	0.229	0.070	4.1791	
480 minute winter	N2-HW6	1.011	N2-MH7	11.1	0.114	0.069	1.4472	
480 minute winter	N2-MH7	1.012	N2-MH8	9.9	0.448	0.061	0.5139	
480 minute winter	N2-MH8	1.013	N2-MH9	16.9	0.624	0.106	0.4259	
480 minute winter	N2-MH9	1.014	N2-HW7	16.9	0.701	0.106	0.2654	1475.6

Results for 10 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 winter	N2-MH1	6	36.897	0.660	223.3	5.1659	0.0000	SURCHARGED
600 minute winter	N2-HW1	600	36.682	0.482	23.1	248.7581	0.0000	SURCHARGED
600 minute winter	N2-HW2	600	36.682	0.525	10.1	0.9280	0.0000	SURCHARGED
480 minute winter	N2-HW3	472	36.652	0.548	13.7	0.8762	0.0000	SURCHARGED
480 minute winter	N2-SW1	472	36.649	0.559	16.3	0.8941	0.0000	SURCHARGED
480 minute winter	N2-SW2	472	36.649	0.604	20.1	1.5404	0.0000	OK
480 minute winter	N2-SW3	472	36.648	0.701	21.8	1.0322	0.0000	SURCHARGED
480 minute winter	N2-SW4	472	36.650	0.723	28.8	0.0000	0.0000	SURCHARGED
480 minute winter	N2-HW4	464	36.644	0.734	57.1	0.0000	0.0000	SURCHARGED
30 minute winter	N2-MH2	25	37.126	0.226	323.7	168.4797	0.0000	OK
30 minute winter	N2-MH3	25	37.024	0.491	95.5	0.8678	0.0000	SURCHARGED
30 minute winter	N2-MH4	26	36.784	0.476	95.5	0.8402	0.0000	SURCHARGED
180 minute winter	N2-MH5	128	36.670	0.400	87.7	0.7070	0.0000	SURCHARGED
480 minute winter	N2-MH6	472	36.644	0.763	55.2	1.3487	0.0000	SURCHARGED
480 minute winter	N2-HW5	472	36.646	0.788	62.6	522.1790	0.0000	SURCHARGED
480 minute winter	N2-HW6	480	36.645	0.840	10.3	1.4838	0.0000	SURCHARGED
480 minute winter	N2-MH7	472	36.646	0.864	11.9	1.5263	0.0000	SURCHARGED
120 minute summer	N2-MH8	112	35.828	0.104	17.0	0.1834	0.0000	OK
120 minute summer	N2-MH9	112	35.786	0.101	17.0	0.1792	0.0000	OK
120 minute summer	N2-HW7	112	35.746	0.088	17.0	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 winter	N2-MH1	1.000	N2-HW1	224.6	2.621	1.394	1.2589	
600 minute winter	N2-HW1	1.001	N2-HW2	10.1	0.157	0.070	3.4094	
600 minute winter	N2-HW2	1.002	N2-HW3	9.9	0.728	0.247	0.3547	
480 minute winter	N2-HW3	1.003	N2-SW1	13.2	0.197	0.019	6.4917	
480 minute winter	N2-SW1	1.004	N2-SW2	15.1	0.209	0.022	23.7650	
480 minute winter	N2-SW2	1.005	N2-SW3	21.8	0.184	0.004	63.3160	
480 minute winter	N2-SW3	1.006	N2-SW4	28.8	0.174	0.041	15.1032	
480 minute winter	N2-SW4	1.007	N2-HW4	57.1	0.151	0.082	13.3683	
480 minute winter	N2-HW4	1.008	N2-MH6	28.9	0.323	0.084	3.2463	
30 minute winter	N2-MH2	2.000	N2-MH3	95.5	1.925	0.484	0.7060	
30 minute winter	N2-MH3	2.001	N2-MH4	95.5	1.356	0.909	1.7720	
30 minute winter	N2-MH4	2.002	N2-MH5	95.4	1.355	1.333	0.6386	
180 minute winter	N2-MH5	2.003	N2-MH6	87.7	1.280	1.216	2.6850	
480 minute winter	N2-MH6	1.009	N2-HW5	54.6	0.837	0.160	2.5940	
480 minute winter	N2-HW5	1.010	N2-HW6	10.3	0.237	0.072	4.1791	
480 minute winter	N2-HW6	1.011	N2-MH7	11.9	0.115	0.074	1.4472	
480 minute winter	N2-MH7	1.012	N2-MH8	10.0	0.448	0.062	0.5148	
120 minute summer	N2-MH8	1.013	N2-MH9	17.0	0.625	0.106	0.4265	
120 minute summer	N2-MH9	1.014	N2-HW7	17.0	0.702	0.106	0.2658	1370.4

Results for 30 year +35% CC 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
960 minute winter	N2-MH1	945	37.082	0.845	24.7	6.6126	0.0000	SURCHARGED
960 minute winter	N2-HW1	945	37.082	0.882	26.4	501.2262	0.0000	SURCHARGED
960 minute winter	N2-HW2	945	37.082	0.925	8.4	1.6343	0.0000	SURCHARGED
720 minute winter	N2-HW3	705	37.047	0.943	31.1	1.5089	0.0000	FLOOD RISK
720 minute winter	N2-SW1	735	37.041	0.951	45.9	1.5218	0.0000	FLOOD RISK
600 minute winter	N2-SW2	600	37.041	0.996	46.3	2.5394	0.0000	OK
600 minute winter	N2-SW3	600	37.041	1.094	130.8	1.6099	0.0000	SURCHARGED
720 minute winter	N2-SW4	690	37.042	1.115	110.9	0.0000	0.0000	SURCHARGED
720 minute winter	N2-HW4	705	37.044	1.134	115.1	0.0000	0.0000	SURCHARGED
60 minute winter	N2-MH2	47	37.379	0.479	396.0	357.5358	0.0000	SURCHARGED
60 minute winter	N2-MH3	51	37.225	0.692	107.3	1.2230	0.0000	SURCHARGED
180 minute winter	N2-MH4	164	37.046	0.738	96.7	1.3048	0.0000	SURCHARGED
720 minute winter	N2-MH5	705	37.042	0.772	63.6	1.3649	0.0000	SURCHARGED
600 minute winter	N2-MH6	600	37.040	1.159	137.2	2.0487	0.0000	SURCHARGED
600 minute winter	N2-HW5	600	37.040	1.182	133.2	855.4246	0.0000	SURCHARGED
600 minute winter	N2-HW6	600	37.042	1.237	10.2	2.1853	0.0000	SURCHARGED
600 minute winter	N2-MH7	585	37.040	1.258	10.3	2.2226	0.0000	SURCHARGED
15 minute winter	N2-MH8	56	35.828	0.104	17.0	0.1834	0.0000	OK
15 minute winter	N2-MH9	56	35.786	0.101	17.0	0.1792	0.0000	OK
15 minute winter	N2-HW7	56	35.746	0.088	17.0	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	N2-MH1	1.000	N2-HW1	24.3	0.760	0.151	2.3299	
960 minute winter	N2-HW1	1.001	N2-HW2	8.4	0.154	0.058	3.4094	
960 minute winter	N2-HW2	1.002	N2-HW3	8.3	0.719	0.207	0.3547	
720 minute winter	N2-HW3	1.003	N2-SW1	45.9	0.191	0.065	17.1978	
720 minute winter	N2-SW1	1.004	N2-SW2	43.5	0.197	0.062	60.4079	
600 minute winter	N2-SW2	1.005	N2-SW3	130.8	0.175	0.022	149.3202	
600 minute winter	N2-SW3	1.006	N2-SW4	136.3	0.177	0.195	33.8456	
720 minute winter	N2-SW4	1.007	N2-HW4	115.1	0.156	0.164	29.6871	
720 minute winter	N2-HW4	1.008	N2-MH6	129.7	0.460	0.377	3.2463	
60 minute winter	N2-MH2	2.000	N2-MH3	107.3	1.918	0.544	0.7812	
60 minute winter	N2-MH3	2.001	N2-MH4	107.2	1.522	1.021	1.7720	
180 minute winter	N2-MH4	2.002	N2-MH5	96.6	1.372	1.349	0.6386	
720 minute winter	N2-MH5	2.003	N2-MH6	63.5	0.963	0.880	2.6850	
600 minute winter	N2-MH6	1.009	N2-HW5	133.2	0.908	0.389	2.5940	
600 minute winter	N2-HW5	1.010	N2-HW6	10.2	0.237	0.071	4.1791	
600 minute winter	N2-HW6	1.011	N2-MH7	10.3	0.119	0.064	1.4472	
600 minute winter	N2-MH7	1.012	N2-MH8	9.9	0.448	0.062	0.5147	
15 minute winter	N2-MH8	1.013	N2-MH9	17.0	0.666	0.106	0.4265	
15 minute winter	N2-MH9	1.014	N2-HW7	17.0	0.702	0.106	0.2658	1318.2

Results for 100 year +40% CC 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 winter	N2-MH1	10	37.319	1.082	542.4	8.4637	0.0000	SURCHARGED
960 minute winter	N2-HW1	945	37.294	1.094	34.1	651.9857	0.0000	FLOOD RISK
960 minute winter	N2-HW2	945	37.295	1.138	7.9	2.0100	0.0000	FLOOD RISK
720 minute winter	N2-HW3	720	37.241	1.137	32.6	1.8196	0.0000	FLOOD RISK
720 minute winter	N2-SW1	720	37.238	1.148	55.1	1.8371	0.0000	FLOOD RISK
720 minute winter	N2-SW2	720	37.239	1.194	22.4	3.0446	0.0000	OK
720 minute winter	N2-SW3	720	37.239	1.292	24.2	1.9020	0.0000	FLOOD RISK
720 minute winter	N2-SW4	720	37.240	1.313	33.5	0.0000	0.0000	FLOOD RISK
960 minute winter	N2-HW4	975	37.238	1.328	68.6	0.0000	0.0000	FLOOD RISK
60 minute winter	N2-MH2	50	37.639	0.739	537.5	523.8833	0.0000	SURCHARGED
60 minute winter	N2-MH3	50	37.463	0.930	112.4	1.6438	0.0000	SURCHARGED
720 minute winter	N2-MH4	720	37.240	0.932	68.6	1.6462	0.0000	SURCHARGED
720 minute winter	N2-MH5	720	37.239	0.969	68.5	1.7123	0.0000	SURCHARGED
720 minute winter	N2-MH6	750	37.237	1.356	68.4	2.3964	0.0000	SURCHARGED
720 minute winter	N2-HW5	720	37.238	1.380	76.2	1040.2910	0.0000	SURCHARGED
720 minute winter	N2-HW6	735	37.236	1.431	10.2	2.5293	0.0000	SURCHARGED
720 minute winter	N2-MH7	720	37.238	1.456	10.7	2.5735	0.0000	SURCHARGED
15 minute summer	N2-MH8	458	35.828	0.104	17.0	0.1834	0.0000	OK
15 minute summer	N2-MH9	457	35.786	0.101	17.0	0.1792	0.0000	OK
15 minute summer	N2-HW7	459	35.746	0.088	17.0	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 winter	N2-MH1	1.000	N2-HW1	535.4	3.815	3.322	2.3299	
960 minute winter	N2-HW1	1.001	N2-HW2	7.9	0.156	0.055	3.4094	
960 minute winter	N2-HW2	1.002	N2-HW3	7.8	0.716	0.196	0.3547	
720 minute winter	N2-HW3	1.003	N2-SW1	52.9	0.190	0.074	24.4405	
720 minute winter	N2-SW1	1.004	N2-SW2	22.4	0.197	0.032	85.3077	
720 minute winter	N2-SW2	1.005	N2-SW3	19.1	0.175	0.003	206.7930	
720 minute winter	N2-SW3	1.006	N2-SW4	33.5	0.181	0.048	46.2590	
720 minute winter	N2-SW4	1.007	N2-HW4	105.0	0.163	0.150	40.1873	
960 minute winter	N2-HW4	1.008	N2-MH6	13.8	0.328	0.040	3.2463	
60 minute winter	N2-MH2	2.000	N2-MH3	112.4	1.916	0.570	0.7812	
60 minute winter	N2-MH3	2.001	N2-MH4	111.6	1.586	1.063	1.7720	
720 minute winter	N2-MH4	2.002	N2-MH5	68.5	0.994	0.956	0.6386	
720 minute winter	N2-MH5	2.003	N2-MH6	68.4	0.971	0.948	2.6850	
720 minute winter	N2-MH6	1.009	N2-HW5	64.6	0.920	0.189	2.5940	
720 minute winter	N2-HW5	1.010	N2-HW6	10.2	0.239	0.071	4.1791	
720 minute winter	N2-HW6	1.011	N2-MH7	10.7	0.120	0.066	1.4472	
720 minute winter	N2-MH7	1.012	N2-MH8	10.0	0.448	0.062	0.5148	
15 minute summer	N2-MH8	1.013	N2-MH9	17.0	0.666	0.106	0.4265	
15 minute summer	N2-MH9	1.014	N2-HW7	17.0	0.702	0.106	0.2658	1422.0