

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	40	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
Outfall			7.520	3000	464501.429	444085.722	2.100
MH-95-S	0.220	5.00	7.600	1800	464573.916	444075.582	2.100
MH-94-S	0.220	5.00	7.460	1800	464623.381	444070.496	1.910
Tank	0.220	5.00	7.300	3000	464655.711	444062.830	1.710
MH-5-S	0.220	5.00	7.100	1800	464660.591	444067.304	1.500
MH-6-S	0.160	5.00	9.050	1800	464671.360	444116.393	3.300
MH-58-S	0.160	5.00	8.300	1800	464658.903	444128.097	2.400
MH-57-S	0.160	5.00	8.170	1800	464625.620	444126.193	2.160
MH-59-S	0.160	5.00	8.650	1200	464619.260	444174.351	2.450
MH-56-S	0.174	5.00	7.900	1800	464569.326	444120.177	1.810
MH-54-S	0.174	5.00	7.650	1800	464527.120	444132.737	1.480
MH-55-S	0.570	5.00	8.400	1800	464457.216	444149.164	1.160
MH-53-S	0.174	5.00	7.950	1800	464530.711	444147.088	1.750
MH-52-S	0.174	5.00	7.900	1800	464515.893	444149.333	1.580
MH-51-S	0.174	5.00	7.820	1200	464491.892	444208.187	1.220
MH-39-S	0.174	5.00	8.150	1200	464531.563	444237.388	1.420
MH-40-S	0.174	5.00	8.650	1200	464552.698	444252.945	1.850
MH-41-S	0.174	5.00	9.150	1200	464608.372	444243.864	2.300
MH-42-S	0.174	5.00	9.330	1200	464612.710	444289.766	2.380
MH-44-S	0.174	5.00	9.280	1200	464578.893	444291.878	2.180
MH-45-S	0.160	5.00	9.580	1200	464647.718	444287.580	2.510
MH-46-S	0.160	5.00	9.430	1200	464660.127	444259.529	2.230
MH-43-S	0.160	5.00	9.570	1200	464638.129	444238.982	2.540
MH-4-S	0.160	5.00	9.810	1800	464734.983	444165.585	3.510
MH-60-S	0.160	5.00	9.560	1200	464712.648	444195.868	3.110
MH-64-S	0.160	5.00	9.560	1200	464724.249	444205.184	3.010
MH-62-S	0.160	5.00	9.550	1200	464692.630	444198.685	2.960
MH-61-S	0.160	5.00	9.500	1200	464667.917	444202.162	2.740
MH-63-S	0.160	5.00	9.550	1200	464669.397	444211.094	2.720
MH-65-S	0.160	5.00	8.730	1200	464662.949	444172.164	1.730
MH-3-S	0.160	5.00	9.800	1800	464746.568	444172.913	3.400
MH-2-S	0.186	5.00	9.700	1800	464750.849	444211.027	3.200
MH-67-S	0.186	5.00	9.700	1800	464736.271	444231.799	3.000
MH-68-S	0.186	5.00	9.740	1800	464746.941	444238.528	2.920
MH-1-S	0.186	5.00	9.730	1800	464761.558	444218.651	3.050
MH-92-S	0.155	5.00	10.230	1800	464793.049	444199.428	3.220
MH-93-S	0.186	5.00	10.140	1800	464797.895	444220.620	3.060
MH-80-S	0.086	5.00	10.000	1800	464857.609	444253.871	2.520
MH-85-S	0.086	5.00	9.820	1200	464840.524	444271.872	2.140
MH-91-S	0.086	5.00	9.870	1200	464847.278	444267.748	2.270
MH-90-S	0.086	5.00	9.830	1200	464856.428	444274.162	2.130

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
MH-89-S	0.086	5.00	9.670	1200	464843.074	444293.073	1.770
MH-82-S	0.086	5.00	9.850	1200	464886.270	444269.831	2.170
MH-84-S	0.086	5.00	9.850	1200	464883.206	444274.825	1.600
MH-87-S	0.086	5.00	9.500	1200	464903.812	444334.872	1.100
MH-81-S	0.086	5.00	9.780	1200	464903.004	444276.634	1.980
MH-83-S	0.086	5.00	9.900	1200	464917.887	444257.731	1.900
MH-86-S	0.086	5.00	11.040	1200	464940.891	444271.401	2.840
MH-96-S	0.155	5.00	10.000	1800	464796.433	444232.254	2.900
MH-97-S	0.155	5.00	9.620	1800	464779.294	444257.012	2.470
MH-98-S	0.155	5.00	9.880	1800	464792.580	444265.856	2.700
MH-104-S	0.155	5.00	9.410	1200	464785.356	444276.659	1.910
MH-99-S	0.155	5.00	9.430	1200	464773.542	444294.373	1.880
MH-103-S	0.155	5.00	9.360	1200	464755.234	444287.502	1.630
MH-107-S	0.155	5.00	9.540	1200	464742.590	444305.140	1.490
MH-109-S	0.186	5.00	9.390	1200	464716.247	444286.255	1.190
MH-108-S	0.155	5.00	9.690	1200	464730.928	444321.408	1.570
MH-102-S	0.155	5.00	9.480	1200	464777.922	444299.958	1.910
MH-106-S	0.086	5.00	9.310	1200	464789.990	444321.941	1.570
MH-110-S	0.086	5.00	9.340	1200	464798.192	444326.305	1.590
MH-111-S	0.086	5.00	9.310	1200	464807.297	444333.680	1.550
MH-112-S	0.086	5.00	9.310	1200	464814.976	444340.113	1.540
MH-113-S	0.086	5.00	9.310	1200	464823.781	444347.489	1.490
MH-114-S	0.086	5.00	9.450	1200	464837.890	444333.020	1.360
MH-115-S	0.086	5.00	9.400	1200	464889.857	444352.108	1.080
MH-66-S	0.155	5.00	9.880	1200	464796.932	444099.487	3.080
MH-70-S	0.155	5.00	9.780	1800	464788.758	444158.029	3.120
MH-71-S	0.155	5.00	9.850	1200	464802.447	444138.791	2.810
MH-75-S	0.155	5.00	10.000	1200	464819.918	444114.234	2.830
MH-72-S	0.155	5.00	9.900	1200	464803.767	444169.121	2.950
MH-73-S	0.155	5.00	10.010	1200	464860.907	444213.949	2.750
MH-74-S	0.155	5.00	10.050	1200	464920.881	444255.671	2.600
MH-101-S	0.155	5.00	9.410	1200	464759.232	444324.663	1.430

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)
PN01-S	MH-95-S	Outfall	73.193	0.600	5.500	5.420	0.080	914.9	900	17.35	50.0
PN02-S	MH-94-S	MH-95-S	49.726	0.600	5.550	5.500	0.050	994.5	900	16.17	50.0
PN03-S	Tank	MH-94-S	33.226	0.600	5.590	5.550	0.040	830.7	900	15.33	50.0
PN04-S	MH-5-S	Tank	6.621	0.600	5.600	5.590	0.010	662.1	600	14.81	50.0
PN05-S	MH-6-S	MH-5-S	50.256	0.600	5.750	5.600	0.150	335.0	600	14.70	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)
PN01-S	1.027	653.6	2095.4	1.200	1.200	11.044	0.0	900	1.036
PN02-S	0.985	626.6	2053.7	1.010	1.200	10.824	0.0	900	0.994
PN03-S	1.079	686.3	2011.9	0.810	1.010	10.604	0.0	900	1.088
PN04-S	0.939	265.4	1970.2	0.900	1.110	10.384	0.0	600	0.947
PN05-S	1.324	374.5	1928.5	2.700	0.900	10.164	0.0	600	1.336

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)
PN06-S	MH-58-S	MH-6-S	17.093	0.600	5.900	5.750	0.150	114.0	600	14.06	50.0
PN07-S	MH-57-S	MH-58-S	33.337	0.600	6.010	5.900	0.110	303.1	600	13.94	50.0
PN08-S	MH-59-S	MH-57-S	48.576	0.600	6.200	6.010	0.190	255.7	300	5.83	50.0
PN09-S	MH-56-S	MH-57-S	56.615	0.600	6.090	6.010	0.080	707.7	600	13.54	50.0
PN10-S	MH-54-S	MH-56-S	44.035	0.600	6.170	6.090	0.080	550.4	525	12.50	50.0
PN11-S	MH-55-S	MH-54-S	71.808	0.600	7.240	6.170	1.070	67.1	450	5.48	50.0
PN12-S	MH-53-S	MH-54-S	14.793	0.600	6.200	6.170	0.030	493.1	450	11.72	50.0
PN13-S	MH-52-S	MH-53-S	14.987	0.600	6.320	6.200	0.120	124.9	450	11.45	50.0
PN14-S	MH-51-S	MH-52-S	63.560	0.600	6.600	6.320	0.280	227.0	375	11.32	50.0
PN15-S	MH-39-S	MH-51-S	49.259	0.600	6.730	6.600	0.130	378.9	375	10.43	50.0
PN16-S	MH-40-S	MH-39-S	26.243	0.600	6.800	6.730	0.070	374.9	375	9.54	50.0
PN17-S	MH-41-S	MH-40-S	56.410	0.600	6.850	6.800	0.050	1128.2	375	9.07	50.0
PN18-S	MH-42-S	MH-41-S	46.107	0.600	6.950	6.850	0.100	461.1	300	7.30	50.0
PN19-S	MH-44-S	MH-42-S	33.883	0.600	7.100	6.950	0.150	225.9	225	5.65	50.0
PN20-S	MH-45-S	MH-42-S	35.076	0.600	7.070	6.950	0.120	292.3	300	6.24	50.0
PN21-S	MH-46-S	MH-45-S	30.673	0.600	7.200	7.070	0.130	235.9	225	5.60	50.0
PN22-S	MH-46-S	MH-43-S	30.101	0.600	7.200	7.030	0.170	177.1	150	5.67	50.0
PN23-S	MH-43-S	MH-41-S	30.155	0.600	7.030	6.850	0.180	167.5	300	6.08	50.0
PN24-S	MH-4-S	MH-6-S	80.422	0.600	6.300	5.750	0.550	146.2	600	11.70	50.0
PN25-S	MH-60-S	MH-4-S	37.629	0.600	6.450	6.300	0.150	250.9	300	7.11	50.0
PN26-S	MH-64-S	MH-60-S	14.879	0.600	6.550	6.450	0.100	148.8	150	5.30	50.0
PN27-S	MH-62-S	MH-60-S	20.215	0.600	6.590	6.450	0.140	144.4	150	6.48	50.0
PN28-S	MH-61-S	MH-62-S	24.956	0.600	6.760	6.590	0.170	146.8	150	6.07	50.0
PN29-S	MH-63-S	MH-61-S	9.054	0.600	6.830	6.760	0.070	129.3	150	5.17	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)
PN06-S	2.280	644.7	620.4	1.800	2.700	3.270	0.0	477	2.576
PN07-S	1.393	393.9	590.1	1.560	1.800	3.110	0.0	600	1.406
PN08-S	0.978	69.2	30.4	2.150	1.860	0.160	0.0	139	0.948
PN09-S	0.908	256.6	529.4	1.210	1.560	2.790	0.0	600	0.916
PN10-S	0.947	205.1	496.3	0.955	1.285	2.616	0.0	525	0.956
PN11-S	2.484	395.1	108.1	0.710	1.030	0.570	0.0	160	2.132
PN12-S	0.909	144.5	355.2	1.300	1.030	1.872	0.0	450	0.920
PN13-S	1.818	289.1	322.2	1.130	1.300	1.698	0.0	450	1.841
PN14-S	1.198	132.3	289.2	0.845	1.205	1.524	0.0	375	1.214
PN15-S	0.925	102.1	256.1	1.045	0.845	1.350	0.0	375	0.936
PN16-S	0.930	102.7	223.1	1.475	1.045	1.176	0.0	375	0.942
PN17-S	0.531	58.6	190.1	1.925	1.475	1.002	0.0	375	0.538
PN18-S	0.726	51.3	126.7	2.080	2.000	0.668	0.0	300	0.735
PN19-S	0.866	34.4	33.0	1.955	2.155	0.174	0.0	177	0.982
PN20-S	0.914	64.6	60.7	2.210	2.080	0.320	0.0	232	1.035
PN21-S	0.847	33.7	30.4	2.005	2.285	0.160	0.0	167	0.955
PN22-S	0.752	13.3	0.0	2.080	2.390	0.000	0.0	0	0.000
PN23-S	1.212	85.6	30.4	2.240	2.000	0.160	0.0	123	1.112
PN24-S	2.011	568.7	1277.7	2.910	2.700	6.734	0.0	600	2.029
PN25-S	0.988	69.8	182.1	2.810	3.210	0.960	0.0	300	1.001
PN26-S	0.821	14.5	30.4	2.860	2.960	0.160	0.0	150	0.837
PN27-S	0.834	14.7	121.4	2.810	2.960	0.640	0.0	150	0.850
PN28-S	0.827	14.6	91.1	2.590	2.810	0.480	0.0	150	0.843
PN29-S	0.882	15.6	30.4	2.570	2.590	0.160	0.0	150	0.898

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)
PN30-S	MH-65-S	MH-61-S	30.407	0.600	7.000	6.760	0.240	126.7	150	5.57	50.0
PN31-S	MH-3-S	MH-4-S	13.708	0.600	6.400	6.300	0.100	137.1	600	11.03	50.0
PN32-S	MH-2-S	MH-3-S	38.354	0.600	6.500	6.400	0.100	383.5	600	10.92	50.0
PN33-S	MH-67-S	MH-2-S	25.377	0.600	6.700	6.500	0.200	126.9	225	5.53	50.0
PN34-S	MH-68-S	MH-67-S	12.615	0.600	6.820	6.700	0.120	105.1	225	5.16	50.0
PN35-S	MH-1-S	MH-2-S	13.146	0.600	6.680	6.500	0.180	73.0	525	10.41	50.0
PN36-S	MH-92-S	MH-1-S	36.895	0.600	7.010	6.680	0.330	111.8	450	10.32	50.0
PN37-S	MH-93-S	MH-92-S	21.739	0.600	7.080	7.010	0.070	310.6	450	10.00	50.0
PN38-S	MH-80-S	MH-93-S	68.348	0.600	7.480	7.080	0.400	170.9	300	7.81	50.0
PN39-S	MH-85-S	MH-80-S	24.818	0.600	7.680	7.480	0.200	124.1	150	5.46	50.0
PN40-S	MH-91-S	MH-80-S	17.300	0.600	7.600	7.480	0.120	144.2	150	5.96	50.0
PN41-S	MH-90-S	MH-91-S	11.174	0.600	7.700	7.600	0.100	111.7	150	5.61	50.0
PN42-S	MH-89-S	MH-90-S	23.151	0.600	7.900	7.700	0.200	115.8	150	5.41	50.0
PN43-S	MH-82-S	MH-80-S	32.805	0.600	7.680	7.480	0.200	164.0	300	6.86	50.0
PN44-S	MH-84-S	MH-82-S	5.859	0.600	8.250	7.680	0.570	10.3	300	6.42	50.0
PN45-S	MH-87-S	MH-84-S	63.484	0.600	8.400	8.250	0.150	423.2	300	6.40	50.0
PN46-S	MH-81-S	MH-82-S	18.064	0.600	7.800	7.680	0.120	150.5	300	5.84	50.0
PN47-S	MH-83-S	MH-81-S	24.059	0.600	8.000	7.800	0.200	120.3	300	5.61	50.0
PN48-S	MH-86-S	MH-83-S	26.759	0.600	8.200	8.000	0.200	133.8	300	5.33	50.0
PN49-S	MH-96-S	MH-93-S	11.726	0.600	7.100	7.080	0.020	586.3	450	9.69	50.0
PN50-S	MH-97-S	MH-96-S	30.112	0.600	7.150	7.100	0.050	602.2	450	9.45	50.0
PN51-S	MH-98-S	MH-97-S	15.960	0.600	7.180	7.150	0.030	532.0	450	8.84	50.0
PN52-S	MH-104-S	MH-98-S	12.996	0.600	7.500	7.180	0.320	40.6	375	8.54	50.0
PN53-S	MH-99-S	MH-104-S	21.292	0.600	7.550	7.500	0.050	425.8	375	8.46	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)
PN30-S	0.891	15.7	30.4	1.580	2.590	0.160	0.0	150	0.908
PN31-S	2.078	587.5	1065.2	2.800	2.910	5.614	0.0	600	2.096
PN32-S	1.237	349.8	1005.4	2.600	2.800	5.299	0.0	600	1.248
PN33-S	1.159	46.1	70.6	2.775	2.975	0.372	0.0	225	1.180
PN34-S	1.275	50.7	35.3	2.695	2.775	0.186	0.0	138	1.374
PN35-S	2.623	567.8	723.1	2.525	2.675	3.811	0.0	525	2.646
PN36-S	1.922	305.6	687.8	2.770	2.600	3.625	0.0	450	1.946
PN37-S	1.148	182.6	658.4	2.610	2.770	3.470	0.0	450	1.163
PN38-S	1.200	84.8	179.5	2.220	2.760	0.946	0.0	300	1.215
PN39-S	0.901	15.9	16.3	1.990	2.370	0.086	0.0	127	1.022
PN40-S	0.835	14.7	49.0	2.120	2.370	0.258	0.0	150	0.850
PN41-S	0.950	16.8	32.6	1.980	2.120	0.172	0.0	150	0.968
PN42-S	0.933	16.5	16.3	1.620	1.980	0.086	0.0	122	1.061
PN43-S	1.225	86.6	97.9	1.870	2.220	0.516	0.0	300	1.240
PN44-S	4.930	348.5	32.6	1.300	1.870	0.172	0.0	61	3.124
PN45-S	0.758	53.6	16.3	0.800	1.300	0.086	0.0	113	0.667
PN46-S	1.279	90.4	49.0	1.680	1.870	0.258	0.0	157	1.303
PN47-S	1.432	101.2	32.6	1.600	1.680	0.172	0.0	117	1.281
PN48-S	1.357	95.9	16.3	2.540	1.600	0.086	0.0	83	1.021
PN49-S	0.832	132.4	443.6	2.450	2.610	2.338	0.0	450	0.843
PN50-S	0.821	130.6	414.2	2.020	2.450	2.183	0.0	450	0.832
PN51-S	0.874	139.0	384.8	2.250	2.020	2.028	0.0	450	0.885
PN52-S	2.850	314.8	355.4	1.535	2.325	1.873	0.0	375	2.886
PN53-S	0.871	96.3	326.0	1.505	1.535	1.718	0.0	375	0.883

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)
PN54-S	MH-103-S	MH-99-S	19.555	0.600	7.730	7.550	0.180	108.6	225	6.10	50.0
PN55-S	MH-107-S	MH-103-S	21.702	0.600	8.050	7.730	0.320	67.8	225	5.84	50.0
PN56-S	MH-109-S	MH-107-S	32.413	0.600	8.200	8.050	0.150	216.1	225	5.61	50.0
PN57-S	MH-108-S	MH-107-S	20.016	0.600	8.120	8.050	0.070	285.9	225	5.43	50.0
PN58-S	MH-102-S	MH-99-S	7.098	0.600	7.570	7.550	0.020	354.9	300	8.06	50.0
PN59-S	MH-106-S	MH-102-S	25.078	0.600	7.740	7.570	0.170	147.5	300	7.91	50.0
PN60-S	MH-110-S	MH-106-S	9.291	0.600	7.750	7.740	0.010	929.1	300	7.59	50.0
PN61-S	MH-111-S	MH-110-S	11.717	0.600	7.760	7.750	0.010	1171.7	300	7.28	50.0
PN62-S	MH-112-S	MH-111-S	10.018	0.600	7.770	7.760	0.010	1001.8	300	6.85	50.0
PN63-S	MH-113-S	MH-112-S	11.486	0.600	7.820	7.770	0.050	229.7	300	6.51	50.0
PN64-S	MH-114-S	MH-113-S	20.209	0.600	8.090	7.820	0.270	74.8	225	6.32	50.0
PN65-S	MH-115-S	MH-114-S	55.362	0.600	8.320	8.090	0.230	240.7	225	6.10	50.0
PN66-S	MH-66-S	MH-3-S	89.039	0.600	6.800	6.400	0.400	222.6	350	6.28	50.0
PN67-S	MH-70-S	MH-2-S	65.160	0.600	6.660	6.500	0.160	407.3	525	8.48	50.0
PN68-S	MH-71-S	MH-70-S	23.611	0.600	7.040	6.660	0.380	62.1	300	5.69	50.0
PN69-S	MH-75-S	MH-71-S	30.138	0.600	7.170	7.040	0.130	231.8	300	5.49	50.0
PN70-S	MH-72-S	MH-70-S	18.663	0.600	6.950	6.660	0.290	64.4	375	7.49	50.0
PN71-S	MH-73-S	MH-72-S	72.626	0.600	7.260	6.950	0.310	234.3	375	7.35	50.0
PN72-S	MH-74-S	MH-73-S	73.059	0.600	7.450	7.260	0.190	384.5	375	6.33	50.0
PN73-S	MH-101-S	MH-102-S	30.978	0.600	7.980	7.570	0.410	75.6	225	5.34	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)
PN54-S	1.254	49.8	123.5	1.405	1.655	0.651	0.0	225	1.277
PN55-S	1.590	63.2	94.1	1.265	1.405	0.496	0.0	225	1.619
PN56-S	0.885	35.2	35.3	0.965	1.265	0.186	0.0	186	1.005
PN57-S	0.768	30.5	29.4	1.345	1.265	0.155	0.0	178	0.871
PN58-S	0.829	58.6	173.0	1.610	1.580	0.912	0.0	300	0.839
PN59-S	1.292	91.3	114.2	1.270	1.610	0.602	0.0	300	1.309
PN60-S	0.508	35.9	97.9	1.290	1.270	0.516	0.0	300	0.514
PN61-S	0.451	31.9	81.6	1.250	1.290	0.430	0.0	300	0.457
PN62-S	0.489	34.5	65.3	1.240	1.250	0.344	0.0	300	0.495
PN63-S	1.033	73.0	49.0	1.190	1.240	0.258	0.0	180	1.105
PN64-S	1.513	60.2	32.6	1.135	1.265	0.172	0.0	118	1.543
PN65-S	0.838	33.3	16.3	0.855	1.135	0.086	0.0	111	0.834
PN66-S	1.158	111.4	29.4	2.730	3.050	0.155	0.0	122	0.981
PN67-S	1.103	238.9	176.5	2.595	2.675	0.930	0.0	337	1.203
PN68-S	1.998	141.2	58.8	2.510	2.820	0.310	0.0	135	1.911
PN69-S	1.028	72.7	29.4	2.530	2.510	0.155	0.0	133	0.975
PN70-S	2.261	249.8	88.2	2.575	2.745	0.465	0.0	153	2.072
PN71-S	1.179	130.2	58.8	2.375	2.575	0.310	0.0	177	1.151
PN72-S	0.918	101.4	29.4	2.225	2.375	0.155	0.0	138	0.799
PN73-S	1.506	59.9	29.4	1.205	1.685	0.155	0.0	111	1.498

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)
PN01-S	73.193	914.9	900	Circular	7.600	5.500	1.200	7.520	5.420	1.200
PN02-S	49.726	994.5	900	Circular	7.460	5.550	1.010	7.600	5.500	1.200
PN03-S	33.226	830.7	900	Circular	7.300	5.590	0.810	7.460	5.550	1.010
PN04-S	6.621	662.1	600	Circular	7.100	5.600	0.900	7.300	5.590	1.110
PN05-S	50.256	335.0	600	Circular	9.050	5.750	2.700	7.100	5.600	0.900
PN06-S	17.093	114.0	600	Circular	8.300	5.900	1.800	9.050	5.750	2.700
PN07-S	33.337	303.1	600	Circular	8.170	6.010	1.560	8.300	5.900	1.800
PN08-S	48.576	255.7	300	Circular	8.650	6.200	2.150	8.170	6.010	1.860
PN09-S	56.615	707.7	600	Circular	7.900	6.090	1.210	8.170	6.010	1.560
PN10-S	44.035	550.4	525	Circular	7.650	6.170	0.955	7.900	6.090	1.285
PN11-S	71.808	67.1	450	Circular	8.400	7.240	0.710	7.650	6.170	1.030
PN12-S	14.793	493.1	450	Circular	7.950	6.200	1.300	7.650	6.170	1.030
PN13-S	14.987	124.9	450	Circular	7.900	6.320	1.130	7.950	6.200	1.300
PN14-S	63.560	227.0	375	Circular	7.820	6.600	0.845	7.900	6.320	1.205
PN15-S	49.259	378.9	375	Circular	8.150	6.730	1.045	7.820	6.600	0.845
PN16-S	26.243	374.9	375	Circular	8.650	6.800	1.475	8.150	6.730	1.045
PN17-S	56.410	1128.2	375	Circular	9.150	6.850	1.925	8.650	6.800	1.475
PN18-S	46.107	461.1	300	Circular	9.330	6.950	2.080	9.150	6.850	2.000
PN19-S	33.883	225.9	225	Circular	9.280	7.100	1.955	9.330	6.950	2.155
PN20-S	35.076	292.3	300	Circular	9.580	7.070	2.210	9.330	6.950	2.080
PN21-S	30.673	235.9	225	Circular	9.430	7.200	2.005	9.580	7.070	2.285
PN22-S	30.101	177.1	150	Circular	9.430	7.200	2.080	9.570	7.030	2.390
PN23-S	30.155	167.5	300	Circular	9.570	7.030	2.240	9.150	6.850	2.000
PN24-S	80.422	146.2	600	Circular	9.810	6.300	2.910	9.050	5.750	2.700
PN25-S	37.629	250.9	300	Circular	9.560	6.450	2.810	9.810	6.300	3.210

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
PN01-S	MH-95-S	1800	Manhole	Adoptable	Outfall	3000	Manhole	Adoptable
PN02-S	MH-94-S	1800	Manhole	Adoptable	MH-95-S	1800	Manhole	Adoptable
PN03-S	Tank	3000	Manhole	Adoptable	MH-94-S	1800	Manhole	Adoptable
PN04-S	MH-5-S	1800	Manhole	Adoptable	Tank	3000	Manhole	Adoptable
PN05-S	MH-6-S	1800	Manhole	Adoptable	MH-5-S	1800	Manhole	Adoptable
PN06-S	MH-58-S	1800	Manhole	Adoptable	MH-6-S	1800	Manhole	Adoptable
PN07-S	MH-57-S	1800	Manhole	Adoptable	MH-58-S	1800	Manhole	Adoptable
PN08-S	MH-59-S	1200	Manhole	Adoptable	MH-57-S	1800	Manhole	Adoptable
PN09-S	MH-56-S	1800	Manhole	Adoptable	MH-59-S	1200	Manhole	Adoptable
PN10-S	MH-54-S	1800	Manhole	Adoptable	MH-56-S	1800	Manhole	Adoptable
PN11-S	MH-55-S	1800	Manhole	Adoptable	MH-54-S	1800	Manhole	Adoptable
PN12-S	MH-53-S	1800	Manhole	Adoptable	MH-55-S	1800	Manhole	Adoptable
PN13-S	MH-52-S	1800	Manhole	Adoptable	MH-53-S	1800	Manhole	Adoptable
PN14-S	MH-51-S	1200	Manhole	Adoptable	MH-52-S	1800	Manhole	Adoptable
PN15-S	MH-39-S	1200	Manhole	Adoptable	MH-51-S	1200	Manhole	Adoptable
PN16-S	MH-40-S	1200	Manhole	Adoptable	MH-39-S	1200	Manhole	Adoptable
PN17-S	MH-41-S	1200	Manhole	Adoptable	MH-40-S	1200	Manhole	Adoptable
PN18-S	MH-42-S	1200	Manhole	Adoptable	MH-41-S	1200	Manhole	Adoptable
PN19-S	MH-44-S	1200	Manhole	Adoptable	MH-42-S	1200	Manhole	Adoptable
PN20-S	MH-45-S	1200	Manhole	Adoptable	MH-44-S	1200	Manhole	Adoptable
PN21-S	MH-46-S	1200	Manhole	Adoptable	MH-45-S	1200	Manhole	Adoptable
PN22-S	MH-46-S	1200	Manhole	Adoptable	MH-43-S	1200	Manhole	Adoptable
PN23-S	MH-43-S	1200	Manhole	Adoptable	MH-46-S	1200	Manhole	Adoptable
PN24-S	MH-4-S	1800	Manhole	Adoptable	MH-43-S	1200	Manhole	Adoptable
PN25-S	MH-60-S	1200	Manhole	Adoptable	MH-4-S	1800	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)
PN26-S	14.879	148.8	150	Circular	9.560	6.550	2.860	9.560	6.450	2.960
PN27-S	20.215	144.4	150	Circular	9.550	6.590	2.810	9.560	6.450	2.960
PN28-S	24.956	146.8	150	Circular	9.500	6.760	2.590	9.550	6.590	2.810
PN29-S	9.054	129.3	150	Circular	9.550	6.830	2.570	9.500	6.760	2.590
PN30-S	30.407	126.7	150	Circular	8.730	7.000	1.580	9.500	6.760	2.590
PN31-S	13.708	137.1	600	Circular	9.800	6.400	2.800	9.810	6.300	2.910
PN32-S	38.354	383.5	600	Circular	9.700	6.500	2.600	9.800	6.400	2.800
PN33-S	25.377	126.9	225	Circular	9.700	6.700	2.775	9.700	6.500	2.975
PN34-S	12.615	105.1	225	Circular	9.740	6.820	2.695	9.700	6.700	2.775
PN35-S	13.146	73.0	525	Circular	9.730	6.680	2.525	9.700	6.500	2.675
PN36-S	36.895	111.8	450	Circular	10.230	7.010	2.770	9.730	6.680	2.600
PN37-S	21.739	310.6	450	Circular	10.140	7.080	2.610	10.230	7.010	2.770
PN38-S	68.348	170.9	300	Circular	10.000	7.480	2.220	10.140	7.080	2.760
PN39-S	24.818	124.1	150	Circular	9.820	7.680	1.990	10.000	7.480	2.370
PN40-S	17.300	144.2	150	Circular	9.870	7.600	2.120	10.000	7.480	2.370
PN41-S	11.174	111.7	150	Circular	9.830	7.700	1.980	9.870	7.600	2.120
PN42-S	23.151	115.8	150	Circular	9.670	7.900	1.620	9.830	7.700	1.980
PN43-S	32.805	164.0	300	Circular	9.850	7.680	1.870	10.000	7.480	2.220
PN44-S	5.859	10.3	300	Circular	9.850	8.250	1.300	9.850	7.680	1.870
PN45-S	63.484	423.2	300	Circular	9.500	8.400	0.800	9.850	8.250	1.300
PN46-S	18.064	150.5	300	Circular	9.780	7.800	1.680	9.850	7.680	1.870
PN47-S	24.059	120.3	300	Circular	9.900	8.000	1.600	9.780	7.800	1.680
PN48-S	26.759	133.8	300	Circular	11.040	8.200	2.540	9.900	8.000	1.600
PN49-S	11.726	586.3	450	Circular	10.000	7.100	2.450	10.140	7.080	2.610
PN50-S	30.112	602.2	450	Circular	9.620	7.150	2.020	10.000	7.100	2.450








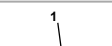

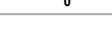
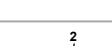




Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
PN26-S	MH-64-S	1200	Manhole	Adoptable	MH-60-S	1200	Manhole	Adoptable
PN27-S	MH-62-S	1200	Manhole	Adoptable	MH-60-S	1200	Manhole	Adoptable
PN28-S	MH-61-S	1200	Manhole	Adoptable	MH-62-S	1200	Manhole	Adoptable
PN29-S	MH-63-S	1200	Manhole	Adoptable	MH-61-S	1200	Manhole	Adoptable
PN30-S	MH-65-S	1200	Manhole	Adoptable	MH-61-S	1200	Manhole	Adoptable
PN31-S	MH-3-S	1800	Manhole	Adoptable	MH-4-S	1800	Manhole	Adoptable
PN32-S	MH-2-S	1800	Manhole	Adoptable	MH-3-S	1800	Manhole	Adoptable
PN33-S	MH-67-S	1800	Manhole	Adoptable	MH-2-S	1800	Manhole	Adoptable
PN34-S	MH-68-S	1800	Manhole	Adoptable	MH-67-S	1800	Manhole	Adoptable
PN35-S	MH-1-S	1800	Manhole	Adoptable	MH-2-S	1800	Manhole	Adoptable
PN36-S	MH-92-S	1800	Manhole	Adoptable	MH-1-S	1800	Manhole	Adoptable
PN37-S	MH-93-S	1800	Manhole	Adoptable	MH-92-S	1800	Manhole	Adoptable
PN38-S	MH-80-S	1800	Manhole	Adoptable	MH-93-S	1800	Manhole	Adoptable
PN39-S	MH-85-S	1200	Manhole	Adoptable	MH-80-S	1800	Manhole	Adoptable
PN40-S	MH-91-S	1200	Manhole	Adoptable	MH-80-S	1800	Manhole	Adoptable
PN41-S	MH-90-S	1200	Manhole	Adoptable	MH-91-S	1200	Manhole	Adoptable
PN42-S	MH-89-S	1200	Manhole	Adoptable	MH-90-S	1200	Manhole	Adoptable
PN43-S	MH-82-S	1200	Manhole	Adoptable	MH-80-S	1800	Manhole	Adoptable
PN44-S	MH-84-S	1200	Manhole	Adoptable	MH-82-S	1200	Manhole	Adoptable
PN45-S	MH-87-S	1200	Manhole	Adoptable	MH-84-S	1200	Manhole	Adoptable
PN46-S	MH-81-S	1200	Manhole	Adoptable	MH-82-S	1200	Manhole	Adoptable
PN47-S	MH-83-S	1200	Manhole	Adoptable	MH-81-S	1200	Manhole	Adoptable
PN48-S	MH-86-S	1200	Manhole	Adoptable	MH-83-S	1200	Manhole	Adoptable
PN49-S	MH-96-S	1800	Manhole	Adoptable	MH-93-S	1800	Manhole	Adoptable
PN50-S	MH-97-S	1800	Manhole	Adoptable	MH-96-S	1800	Manhole	Adoptable

Pipeline Schedule

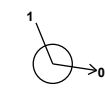
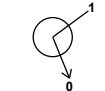
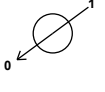
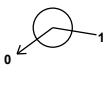
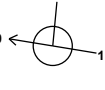
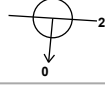
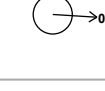
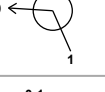
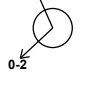

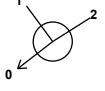
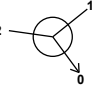

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
PN51-S	15.960	532.0	450	Circular	9.880	7.180	2.250	9.620	7.150	2.020
PN52-S	12.996	40.6	375	Circular	9.410	7.500	1.535	9.880	7.180	2.325
PN53-S	21.292	425.8	375	Circular	9.430	7.550	1.505	9.410	7.500	1.535
PN54-S	19.555	108.6	225	Circular	9.360	7.730	1.405	9.430	7.550	1.655
PN55-S	21.702	67.8	225	Circular	9.540	8.050	1.265	9.360	7.730	1.405
PN56-S	32.413	216.1	225	Circular	9.390	8.200	0.965	9.540	8.050	1.265
PN57-S	20.016	285.9	225	Circular	9.690	8.120	1.345	9.540	8.050	1.265
PN58-S	7.098	354.9	300	Circular	9.480	7.570	1.610	9.430	7.550	1.580
PN59-S	25.078	147.5	300	Circular	9.310	7.740	1.270	9.480	7.570	1.610
PN60-S	9.291	929.1	300	Circular	9.340	7.750	1.290	9.310	7.740	1.270
PN61-S	11.717	1171.7	300	Circular	9.310	7.760	1.250	9.340	7.750	1.290
PN62-S	10.018	1001.8	300	Circular	9.310	7.770	1.240	9.310	7.760	1.250
PN63-S	11.486	229.7	300	Circular	9.310	7.820	1.190	9.310	7.770	1.240
PN64-S	20.209	74.8	225	Circular	9.450	8.090	1.135	9.310	7.820	1.265
PN65-S	55.362	240.7	225	Circular	9.400	8.320	0.855	9.450	8.090	1.135
PN66-S	89.039	222.6	350	Circular	9.880	6.800	2.730	9.800	6.400	3.050
PN67-S	65.160	407.3	525	Circular	9.780	6.660	2.595	9.700	6.500	2.675
PN68-S	23.611	62.1	300	Circular	9.850	7.040	2.510	9.780	6.660	2.820
PN69-S	30.138	231.8	300	Circular	10.000	7.170	2.530	9.850	7.040	2.510
PN70-S	18.663	64.4	375	Circular	9.900	6.950	2.575	9.780	6.660	2.745
PN71-S	72.626	234.3	375	Circular	10.010	7.260	2.375	9.900	6.950	2.575
PN72-S	73.059	384.5	375	Circular	10.050	7.450	2.225	10.010	7.260	2.375
PN73-S	30.978	75.6	225	Circular	9.410	7.980	1.205	9.480	7.570	1.685

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
PN51-S	MH-98-S	1800	Manhole	Adoptable	MH-97-S	1800	Manhole	Adoptable
PN52-S	MH-104-S	1200	Manhole	Adoptable	MH-98-S	1800	Manhole	Adoptable
PN53-S	MH-99-S	1200	Manhole	Adoptable	MH-104-S	1200	Manhole	Adoptable
PN54-S	MH-103-S	1200	Manhole	Adoptable	MH-99-S	1200	Manhole	Adoptable
PN55-S	MH-107-S	1200	Manhole	Adoptable	MH-103-S	1200	Manhole	Adoptable
PN56-S	MH-109-S	1200	Manhole	Adoptable	MH-107-S	1200	Manhole	Adoptable
PN57-S	MH-108-S	1200	Manhole	Adoptable	MH-107-S	1200	Manhole	Adoptable
PN58-S	MH-102-S	1200	Manhole	Adoptable	MH-99-S	1200	Manhole	Adoptable
PN59-S	MH-106-S	1200	Manhole	Adoptable	MH-102-S	1200	Manhole	Adoptable
PN60-S	MH-110-S	1200	Manhole	Adoptable	MH-106-S	1200	Manhole	Adoptable
PN61-S	MH-111-S	1200	Manhole	Adoptable	MH-110-S	1200	Manhole	Adoptable
PN62-S	MH-112-S	1200	Manhole	Adoptable	MH-111-S	1200	Manhole	Adoptable
PN63-S	MH-113-S	1200	Manhole	Adoptable	MH-112-S	1200	Manhole	Adoptable
PN64-S	MH-114-S	1200	Manhole	Adoptable	MH-113-S	1200	Manhole	Adoptable
PN65-S	MH-115-S	1200	Manhole	Adoptable	MH-114-S	1200	Manhole	Adoptable
PN66-S	MH-66-S	1200	Manhole	Adoptable	MH-3-S	1800	Manhole	Adoptable
PN67-S	MH-70-S	1800	Manhole	Adoptable	MH-2-S	1800	Manhole	Adoptable
PN68-S	MH-71-S	1200	Manhole	Adoptable	MH-70-S	1800	Manhole	Adoptable
PN69-S	MH-75-S	1200	Manhole	Adoptable	MH-71-S	1200	Manhole	Adoptable
PN70-S	MH-72-S	1200	Manhole	Adoptable	MH-70-S	1800	Manhole	Adoptable
PN71-S	MH-73-S	1200	Manhole	Adoptable	MH-72-S	1200	Manhole	Adoptable
PN72-S	MH-74-S	1200	Manhole	Adoptable	MH-73-S	1200	Manhole	Adoptable
PN73-S	MH-101-S	1200	Manhole	Adoptable	MH-102-S	1200	Manhole	Adoptable


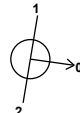


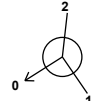
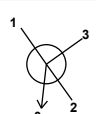




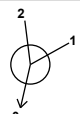
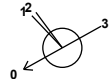

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
Outfall	464501.429	444085.722	7.520	2.100	3000	 1	PN01-S	5.420	900
MH-95-S	464573.916	444075.582	7.600	2.100	1800	 1	PN02-S	5.500	900
MH-94-S	464623.381	444070.496	7.460	1.910	1800	 1	PN01-S	5.500	900
						 1	PN03-S	5.550	900
Tank	464655.711	444062.830	7.300	1.710	3000	 1	PN02-S	5.550	900
						 1	PN04-S	5.590	600
MH-5-S	464660.591	444067.304	7.100	1.500	1800	 1	PN03-S	5.590	900
						 1	PN05-S	5.600	600
MH-6-S	464671.360	444116.393	9.050	3.300	1800	 1	PN04-S	5.600	600
						 1	PN24-S	5.750	600
						 1	PN06-S	5.750	600
						 1	PN05-S	5.750	600
MH-58-S	464658.903	444128.097	8.300	2.400	1800	 1	PN07-S	5.900	600
						 1	PN06-S	5.900	600
MH-57-S	464625.620	444126.193	8.170	2.160	1800	 1	PN08-S	6.010	300
						1	PN09-S	6.010	600
						1	PN07-S	6.010	600
MH-59-S	464619.260	444174.351	8.650	2.450	1200	0			
						0	PN08-S	6.200	300
MH-56-S	464569.326	444120.177	7.900	1.810	1800	1	PN10-S	6.090	525
						1	PN09-S	6.090	600
MH-54-S	464527.120	444132.737	7.650	1.480	1800	1	PN11-S	6.170	450
						1	PN12-S	6.170	450
						1	PN10-S	6.170	525
MH-55-S	464457.216	444149.164	8.400	1.160	1800	0			
						0	PN11-S	7.240	450
MH-53-S	464530.711	444147.088	7.950	1.750	1800	1	PN13-S	6.200	450
						1	PN12-S	6.200	450














Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH-52-S	464515.893	444149.333	7.900	1.580	1800	 1	PN14-S	6.320	375
MH-51-S	464491.892	444208.187	7.820	1.220	1200	 1	PN13-S PN15-S	6.320 6.600	450 375
MH-39-S	464531.563	444237.388	8.150	1.420	1200	 1	PN14-S PN16-S	6.600 6.730	375 375
MH-40-S	464552.698	444252.945	8.650	1.850	1200	 1	PN15-S PN17-S	6.730 6.800	375 375
MH-41-S	464608.372	444243.864	9.150	2.300	1200	 1	PN23-S PN18-S	6.850 6.850	300 300
MH-42-S	464612.710	444289.766	9.330	2.380	1200	 1	PN17-S PN19-S PN20-S	6.850 6.950 6.950	375 225 300
MH-44-S	464578.893	444291.878	9.280	2.180	1200	 0	PN18-S PN19-S	6.950 7.100	300 225
MH-45-S	464647.718	444287.580	9.580	2.510	1200	 1	PN21-S PN20-S	7.070 7.070	225 300
MH-46-S	464660.127	444259.529	9.430	2.230	1200	 0-1	PN21-S PN22-S	7.200 7.200	225 150
MH-43-S	464638.129	444238.982	9.570	2.540	1200	 1	PN22-S PN23-S	7.030 7.030	150 300
MH-4-S	464734.983	444165.585	9.810	3.510	1800	 1	PN25-S PN31-S	6.300 6.300	300 600
MH-60-S	464712.648	444195.868	9.560	3.110	1200	 1	PN24-S PN26-S PN27-S	6.300 6.450 6.450	600 150 150
MH-64-S	464724.249	444205.184	9.560	3.010	1200	 0	PN25-S PN26-S	6.450 6.550	300 150

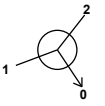

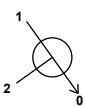




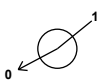

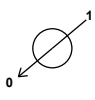



Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH-62-S	464692.630	444198.685	9.550	2.960	1200	 1	PN28-S	6.590	150
MH-61-S	464667.917	444202.162	9.500	2.740	1200	 1 2 0	PN29-S PN30-S PN28-S	6.760 6.760 6.760	150 150 150
MH-63-S	464669.397	444211.094	9.550	2.720	1200	 0	PN29-S	6.830	150
MH-65-S	464662.949	444172.164	8.730	1.730	1200	 0	PN30-S	7.000	150
MH-3-S	464746.568	444172.913	9.800	3.400	1800	 2 1 0	PN66-S PN32-S	6.400 6.400	350 600
MH-2-S	464750.849	444211.027	9.700	3.200	1800	 1 3 2 0	PN33-S PN67-S PN35-S PN32-S	6.500 6.500 6.500 6.500	225 525 525 600
MH-67-S	464736.271	444231.799	9.700	3.000	1800	 1 0	PN34-S	6.700	225
MH-68-S	464746.941	444238.528	9.740	2.920	1800	 0	PN34-S	6.820	225
MH-1-S	464761.558	444218.651	9.730	3.050	1800	 0 1	PN36-S	6.680	450
MH-92-S	464793.049	444199.428	10.230	3.220	1800	 0 1	PN37-S	7.010	450
MH-93-S	464797.895	444220.620	10.140	3.060	1800	 2 1 0	PN38-S PN49-S PN37-S	7.080 7.080 7.080	300 450 450
MH-80-S	464857.609	444253.871	10.000	2.520	1800	 2 3 0	PN39-S PN40-S PN43-S PN38-S	7.480 7.480 7.480 7.480	150 150 300 300
MH-85-S	464840.524	444271.872	9.820	2.140	1200	 0	PN39-S	7.680	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
MH-91-S	464847.278	444267.748	9.870	2.270	1200	 1	PN41-S	7.600	150	
						0	PN40-S	7.600	150	
MH-90-S	464856.428	444274.162	9.830	2.130	1200	 1	1	PN42-S	7.700	150
						0	PN41-S	7.700	150	
MH-89-S	464843.074	444293.073	9.670	1.770	1200	 0	0	PN42-S	7.900	150
MH-82-S	464886.270	444269.831	9.850	2.170	1200	 1 2	1	PN46-S	7.680	300
						2	PN44-S	7.680	300	
						0	PN43-S	7.680	300	
MH-84-S	464883.206	444274.825	9.850	1.600	1200	 1	1	PN45-S	8.250	300
						0	PN44-S	8.250	300	
MH-87-S	464903.812	444334.872	9.500	1.100	1200	 0	0	PN45-S	8.400	300
MH-81-S	464903.004	444276.634	9.780	1.980	1200	 1	1	PN47-S	7.800	300
						0	PN46-S	7.800	300	
MH-83-S	464917.887	444257.731	9.900	1.900	1200	 1	1	PN48-S	8.000	300
						0	PN47-S	8.000	300	
MH-86-S	464940.891	444271.401	11.040	2.840	1200	 0	0	PN48-S	8.200	300
MH-96-S	464796.433	444232.254	10.000	2.900	1800	 1	1	PN50-S	7.100	450
						0	PN49-S	7.100	450	
MH-97-S	464779.294	444257.012	9.620	2.470	1800	 1	1	PN51-S	7.150	450
						0	PN50-S	7.150	450	
MH-98-S	464792.580	444265.856	9.880	2.700	1800	 1	1	PN52-S	7.180	375
						0	PN51-S	7.180	450	
MH-104-S	464785.356	444276.659	9.410	1.910	1200	 1	1	PN53-S	7.500	375
						0	PN52-S	7.500	375	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH-99-S	464773.542	444294.373	9.430	1.880	1200		1 PN54-S 7.550 2 PN58-S 7.550 0 PN53-S 7.550	225 300 375	
MH-103-S	464755.234	444287.502	9.360	1.630	1200		1 PN55-S 7.730 0 PN54-S 7.730	225 225	
MH-107-S	464742.590	444305.140	9.540	1.490	1200		1 PN57-S 8.050 2 PN56-S 8.050 0 PN55-S 8.050	225 225 225	
MH-109-S	464716.247	444286.255	9.390	1.190	1200		0 PN56-S 8.200	225	
MH-108-S	464730.928	444321.408	9.690	1.570	1200		0 PN57-S 8.120	225	
MH-102-S	464777.922	444299.958	9.480	1.910	1200		1 PN73-S 7.570 2 PN59-S 7.570 0 PN58-S 7.570	225 300 300	
MH-106-S	464789.990	444321.941	9.310	1.570	1200		1 PN60-S 7.740 0 PN59-S 7.740	300 300	
MH-110-S	464798.192	444326.305	9.340	1.590	1200		1 PN61-S 7.750 0 PN60-S 7.750	300 300	
MH-111-S	464807.297	444333.680	9.310	1.550	1200		1 PN62-S 7.760 0 PN61-S 7.760	300 300	
MH-112-S	464814.976	444340.113	9.310	1.540	1200		1 PN63-S 7.770 0 PN62-S 7.770	300 300	
MH-113-S	464823.781	444347.489	9.310	1.490	1200		1 PN64-S 7.820 0 PN63-S 7.820	225 300	
MH-114-S	464837.890	444333.020	9.450	1.360	1200		1 PN65-S 8.090 0 PN64-S 8.090	225 225	
MH-115-S	464889.857	444352.108	9.400	1.080	1200		0 PN65-S 8.320	225	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH-66-S	464796.932	444099.487	9.880	3.080	1200				
						0	PN66-S	6.800	350
MH-70-S	464788.758	444158.029	9.780	3.120	1800				
						1	PN68-S	6.660	300
						2	PN70-S	6.660	375
						0	PN67-S	6.660	525
MH-71-S	464802.447	444138.791	9.850	2.810	1200				
						1	PN69-S	7.040	300
						0	PN68-S	7.040	300
MH-75-S	464819.918	444114.234	10.000	2.830	1200				
						0	PN69-S	7.170	300
MH-72-S	464803.767	444169.121	9.900	2.950	1200				
						1	PN71-S	6.950	375
						0	PN70-S	6.950	375
MH-73-S	464860.907	444213.949	10.010	2.750	1200				
						1	PN72-S	7.260	375
						0	PN71-S	7.260	375
MH-74-S	464920.881	444255.671	10.050	2.600	1200				
						0	PN72-S	7.450	375
MH-101-S	464759.232	444324.663	9.410	1.430	1200				
						0	PN73-S	7.980	225

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Normal
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	20.000	Drain Down Time (mins)	240
Ratio-R	0.400	Additional Storage (m ³ /ha)	0.0
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 %)
1	0	0	0
10	0	0	0
30	0	0	0
50	0	0	0
100	0	0	0

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
100	40	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 (m ³)	Flood (m ³)	Status
15 minute winter	Outfall	14	5.924	0.504	732.1	0.0000	0.0000	OK
15 minute winter	MH-95-S	13	6.173	0.673	738.5	1.7121	0.0000	OK
15 minute winter	MH-94-S	13	6.295	0.745	728.5	1.8956	0.0000	OK
15 minute winter	Tank	13	6.378	0.788	709.7	5.5673	0.0000	OK
15 minute winter	MH-5-S	13	6.598	0.998	691.5	2.5388	0.0000	SURCHARGED
15 minute winter	MH-6-S	13	7.219	1.469	671.3	3.7392	0.0000	SURCHARGED
15 minute winter	MH-58-S	13	7.258	1.358	250.4	3.4562	0.0000	SURCHARGED
15 minute winter	MH-57-S	13	7.304	1.294	240.9	3.2941	0.0000	SURCHARGED
15 minute winter	MH-59-S	13	7.290	1.090	39.9	1.2333	0.0000	SURCHARGED
15 minute winter	MH-56-S	14	7.363	1.273	230.8	3.2394	0.0000	SURCHARGED
15 minute winter	MH-54-S	14	7.466	1.296	241.6	3.2989	0.0000	FLOOD RISK
15 minute winter	MH-55-S	13	7.480	0.240	80.4	0.6111	0.0000	OK
15 minute winter	MH-53-S	14	7.514	1.314	156.0	3.3442	0.0000	SURCHARGED
15 minute winter	MH-52-S	14	7.554	1.234	151.3	3.1406	0.0000	SURCHARGED
15 minute winter	MH-51-S	13	7.820	1.220	146.6	1.3798	1.0446	FLOOD
15 minute winter	MH-39-S	13	8.032	1.302	134.8	1.4723	0.0000	FLOOD RISK
15 minute winter	MH-40-S	13	8.130	1.330	111.8	1.5042	0.0000	SURCHARGED
15 minute winter	MH-41-S	13	8.266	1.416	99.7	1.6015	0.0000	SURCHARGED
15 minute winter	MH-42-S	13	8.384	1.434	58.4	1.6218	0.0000	SURCHARGED
15 minute winter	MH-44-S	13	8.421	1.321	24.5	1.4940	0.0000	SURCHARGED
15 minute winter	MH-45-S	13	8.398	1.328	32.5	1.5018	0.0000	SURCHARGED
15 minute winter	MH-46-S	13	8.397	1.197	22.6	1.3543	0.0000	SURCHARGED
15 minute winter	MH-43-S	13	8.282	1.252	33.7	1.4161	0.0000	SURCHARGED
15 minute winter	MH-4-S	13	7.563	1.263	509.8	3.2139	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-95-S	PN01-S	Outfall	732.1	1.672	1.120	31.8929	705.5
15 minute winter	MH-94-S	PN02-S	MH-95-S	720.6	1.345	1.150	26.5932	
15 minute winter	Tank	PN03-S	MH-94-S	710.7	1.245	1.036	19.0971	
15 minute winter	MH-5-S	PN04-S	Tank	691.9	2.457	2.607	1.8650	
15 minute winter	MH-6-S	PN05-S	MH-5-S	673.7	2.392	1.799	14.1560	
15 minute winter	MH-58-S	PN06-S	MH-6-S	245.2	0.871	0.380	4.8147	
15 minute winter	MH-57-S	PN07-S	MH-58-S	232.8	1.118	0.591	9.3903	
15 minute winter	MH-59-S	PN08-S	MH-57-S	22.4	0.529	0.324	3.4207	
15 minute winter	MH-56-S	PN09-S	MH-57-S	213.1	0.976	0.831	15.9472	
15 minute winter	MH-54-S	PN10-S	MH-56-S	206.3	1.112	1.006	9.5130	
15 minute winter	MH-55-S	PN11-S	MH-54-S	79.1	0.991	0.200	8.7771	
15 minute winter	MH-53-S	PN12-S	MH-54-S	153.1	0.967	1.060	2.3439	
15 minute winter	MH-52-S	PN13-S	MH-53-S	137.0	0.864	0.474	2.3746	
15 minute winter	MH-51-S	PN14-S	MH-52-S	126.8	1.206	0.958	7.0105	
15 minute winter	MH-39-S	PN15-S	MH-51-S	122.1	1.130	1.196	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	110.3	1.000	1.075	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	90.6	0.821	1.544	6.2219	
15 minute winter	MH-42-S	PN18-S	MH-41-S	50.9	0.722	0.992	3.2468	
15 minute winter	MH-44-S	PN19-S	MH-42-S	22.2	0.559	0.646	1.3476	
15 minute winter	MH-45-S	PN20-S	MH-42-S	21.8	0.520	0.337	2.4700	
15 minute winter	MH-46-S	PN21-S	MH-45-S	11.3	0.519	0.336	1.2199	
15 minute winter	MH-46-S	PN22-S	MH-43-S	11.1	0.641	0.839	0.5299	
15 minute winter	MH-43-S	PN23-S	MH-41-S	24.6	0.517	0.287	2.1235	
15 minute winter	MH-4-S	PN24-S	MH-6-S	424.5	1.620	0.746	22.6530	

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 (m ³)	Flood (m ³)	Status
15 minute winter	MH-60-S	13	7.711	1.261	82.5	1.4262	0.0000	SURCHARGED
15 minute winter	MH-64-S	13	7.821	1.271	22.6	1.4370	0.0000	SURCHARGED
15 minute winter	MH-62-S	12	8.694	2.104	48.0	2.3797	0.0000	SURCHARGED
15 minute winter	MH-61-S	12	9.063	2.303	40.7	2.6051	0.0000	SURCHARGED
15 minute winter	MH-63-S	12	9.203	2.373	22.6	2.6840	0.0000	SURCHARGED
15 minute winter	MH-65-S	10	8.730	1.730	38.0	1.9566	9.0399	FLOOD
15 minute winter	MH-3-S	13	7.629	1.229	464.6	3.1269	0.0000	SURCHARGED
15 minute winter	MH-2-S	15	7.764	1.264	433.2	3.2173	0.0000	SURCHARGED
15 minute winter	MH-67-S	13	7.844	1.144	45.3	2.9104	0.0000	SURCHARGED
15 minute winter	MH-68-S	13	7.861	1.041	26.2	2.6485	0.0000	SURCHARGED
15 minute winter	MH-1-S	15	7.833	1.153	299.2	2.9352	0.0000	SURCHARGED
15 minute winter	MH-92-S	13	8.145	1.135	284.3	2.8878	0.0000	SURCHARGED
15 minute winter	MH-93-S	13	8.346	1.266	279.4	3.2213	0.0000	SURCHARGED
15 minute winter	MH-80-S	14	8.524	1.044	89.1	2.6562	0.0000	SURCHARGED
15 minute winter	MH-85-S	14	8.555	0.875	12.1	0.9901	0.0000	SURCHARGED
15 minute winter	MH-91-S	13	8.791	1.191	25.8	1.3466	0.0000	SURCHARGED
15 minute winter	MH-90-S	13	8.884	1.184	18.9	1.3388	0.0000	SURCHARGED
15 minute winter	MH-89-S	13	8.928	1.028	12.1	1.1626	0.0000	SURCHARGED
15 minute winter	MH-82-S	14	8.540	0.860	62.2	0.9723	0.0000	SURCHARGED
15 minute winter	MH-84-S	14	8.540	0.290	23.6	0.3280	0.0000	OK
15 minute winter	MH-87-S	15	8.571	0.171	15.2	0.1934	0.0000	OK
15 minute winter	MH-81-S	14	8.548	0.748	36.5	0.8464	0.0000	SURCHARGED
15 minute winter	MH-83-S	14	8.552	0.552	28.4	0.6240	0.0000	SURCHARGED
15 minute winter	MH-86-S	14	8.551	0.351	12.1	0.3971	0.0000	SURCHARGED
15 minute winter	MH-96-S	13	8.423	1.323	202.7	3.3670	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-60-S	PN25-S	MH-4-S	77.6	1.102	1.111	2.6498	
15 minute winter	MH-64-S	PN26-S	MH-60-S	18.8	1.070	1.297	0.2619	
15 minute winter	MH-62-S	PN27-S	MH-60-S	41.0	2.332	2.785	0.3559	
15 minute winter	MH-61-S	PN28-S	MH-62-S	25.5	1.446	1.742	0.4393	
15 minute winter	MH-63-S	PN29-S	MH-61-S	19.5	1.105	1.249	0.1594	
15 minute winter	MH-65-S	PN30-S	MH-61-S	-17.4	-0.986	-1.102	0.5353	
15 minute winter	MH-3-S	PN31-S	MH-4-S	409.6	1.638	0.697	3.8612	
15 minute winter	MH-2-S	PN32-S	MH-3-S	422.4	1.540	1.208	10.8034	
15 minute winter	MH-67-S	PN33-S	MH-2-S	37.9	0.953	0.822	1.0093	
15 minute winter	MH-68-S	PN34-S	MH-67-S	19.1	0.787	0.377	0.5017	
15 minute winter	MH-1-S	PN35-S	MH-2-S	296.5	1.458	0.522	2.8400	
15 minute winter	MH-92-S	PN36-S	MH-1-S	274.3	1.885	0.897	5.8458	
15 minute winter	MH-93-S	PN37-S	MH-92-S	262.4	1.656	1.437	3.4444	
15 minute winter	MH-80-S	PN38-S	MH-93-S	76.3	1.084	0.900	4.8130	
15 minute winter	MH-85-S	PN39-S	MH-80-S	9.4	0.576	0.589	0.4369	
15 minute winter	MH-91-S	PN40-S	MH-80-S	22.9	1.302	1.554	0.3046	
15 minute winter	MH-90-S	PN41-S	MH-91-S	15.1	0.859	0.902	0.1967	
15 minute winter	MH-89-S	PN42-S	MH-90-S	7.7	0.643	0.470	0.4076	
15 minute winter	MH-82-S	PN43-S	MH-80-S	55.1	0.997	0.637	2.3101	
15 minute winter	MH-84-S	PN44-S	MH-82-S	28.3	0.808	0.081	0.4106	
15 minute winter	MH-87-S	PN45-S	MH-84-S	13.0	0.848	0.243	3.3974	
15 minute winter	MH-81-S	PN46-S	MH-82-S	40.7	0.822	0.450	1.2721	
15 minute winter	MH-83-S	PN47-S	MH-81-S	31.6	0.885	0.312	1.6942	
15 minute winter	MH-86-S	PN48-S	MH-83-S	11.9	0.730	0.124	1.8844	
15 minute winter	MH-96-S	PN49-S	MH-93-S	189.5	1.196	1.432	1.8579	

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 (m ³)	Flood (m ³)	Status
15 minute winter	MH-97-S	13	8.545	1.395	192.6	3.5501	0.0000	SURCHARGED
15 minute winter	MH-98-S	13	8.614	1.434	181.3	3.6490	0.0000	SURCHARGED
15 minute winter	MH-104-S	13	8.738	1.238	164.4	1.4006	0.0000	SURCHARGED
15 minute winter	MH-99-S	13	8.885	1.335	150.6	1.5101	0.0000	SURCHARGED
15 minute winter	MH-103-S	13	9.167	1.437	70.1	1.6250	0.0000	FLOOD RISK
15 minute winter	MH-107-S	12	9.377	1.327	54.8	1.5007	0.0000	FLOOD RISK
15 minute winter	MH-109-S	12	9.390	1.190	26.2	1.3459	0.3884	FLOOD
15 minute winter	MH-108-S	12	9.407	1.287	21.9	1.4557	0.0000	FLOOD RISK
15 minute winter	MH-102-S	13	8.941	1.371	74.2	1.5508	0.0000	SURCHARGED
15 minute winter	MH-106-S	13	9.000	1.260	50.0	1.4248	0.0000	SURCHARGED
15 minute winter	MH-110-S	13	9.021	1.271	43.7	1.4377	0.0000	SURCHARGED
15 minute winter	MH-111-S	13	9.038	1.278	38.3	1.4451	0.0000	FLOOD RISK
15 minute winter	MH-112-S	13	9.049	1.279	32.0	1.4470	0.0000	FLOOD RISK
15 minute winter	MH-113-S	13	9.056	1.236	31.5	1.3979	0.0000	FLOOD RISK
15 minute winter	MH-114-S	13	9.077	0.987	33.7	1.1161	0.0000	SURCHARGED
15 minute winter	MH-115-S	13	9.090	0.770	26.6	0.8714	0.0000	SURCHARGED
15 minute summer	MH-66-S	12	7.851	1.051	26.4	1.1890	0.0000	SURCHARGED
15 minute winter	MH-70-S	14	7.778	1.118	106.1	2.8464	0.0000	SURCHARGED
15 minute winter	MH-71-S	12	7.816	0.776	56.3	0.8773	0.0000	SURCHARGED
15 minute winter	MH-75-S	12	7.834	0.664	21.9	0.7506	0.0000	SURCHARGED
15 minute winter	MH-72-S	14	7.850	0.900	84.2	1.0179	0.0000	SURCHARGED
15 minute winter	MH-73-S	14	8.132	0.872	63.0	0.9859	0.0000	SURCHARGED
15 minute winter	MH-74-S	14	8.137	0.687	33.6	0.7768	0.0000	SURCHARGED
15 minute winter	MH-101-S	13	8.962	0.982	21.9	1.1106	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-97-S	PN50-S	MH-96-S	180.8	1.141	1.384	4.7710	
15 minute winter	MH-98-S	PN51-S	MH-97-S	170.7	1.078	1.228	2.5288	
15 minute winter	MH-104-S	PN52-S	MH-98-S	159.8	1.449	0.508	1.4334	
15 minute winter	MH-99-S	PN53-S	MH-104-S	146.6	1.552	1.524	2.3484	
15 minute winter	MH-103-S	PN54-S	MH-99-S	65.0	1.634	1.303	0.7777	
15 minute winter	MH-107-S	PN55-S	MH-103-S	49.5	1.245	0.783	0.8631	
15 minute winter	MH-109-S	PN56-S	MH-107-S	19.1	0.718	0.543	1.2891	
15 minute winter	MH-108-S	PN57-S	MH-107-S	19.6	0.585	0.642	0.7961	
15 minute winter	MH-102-S	PN58-S	MH-99-S	72.2	1.025	1.232	0.4998	
15 minute winter	MH-106-S	PN59-S	MH-102-S	51.2	0.748	0.561	1.7660	
15 minute winter	MH-110-S	PN60-S	MH-106-S	42.8	0.853	1.191	0.6543	
15 minute winter	MH-111-S	PN61-S	MH-110-S	37.8	0.594	1.186	0.8251	
15 minute winter	MH-112-S	PN62-S	MH-111-S	34.3	0.487	0.993	0.7055	
15 minute winter	MH-113-S	PN63-S	MH-112-S	31.2	0.443	0.427	0.8088	
15 minute winter	MH-114-S	PN64-S	MH-113-S	27.2	0.695	0.453	0.8037	
15 minute winter	MH-115-S	PN65-S	MH-114-S	-15.2	0.714	-0.456	2.2018	
15 minute summer	MH-66-S	PN66-S	MH-3-S	19.6	0.397	0.176	8.5343	
15 minute winter	MH-70-S	PN67-S	MH-2-S	106.5	0.530	0.446	14.0767	
15 minute winter	MH-71-S	PN68-S	MH-70-S	42.9	0.914	0.304	1.6627	
15 minute winter	MH-75-S	PN69-S	MH-71-S	21.6	0.877	0.297	2.1223	
15 minute winter	MH-72-S	PN70-S	MH-70-S	73.2	0.875	0.293	2.0585	
15 minute winter	MH-73-S	PN71-S	MH-72-S	61.5	1.013	0.472	8.0104	
15 minute winter	MH-74-S	PN72-S	MH-73-S	22.7	0.626	0.224	8.0582	
15 minute winter	MH-101-S	PN73-S	MH-102-S	23.0	0.579	0.384	1.2320	

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 (m ³)	Flood (m ³)	Status
15 minute winter	Outfall	12	6.013	0.593	999.6	0.0000	0.0000	OK
15 minute winter	MH-95-S	11	6.336	0.836	1000.7	2.1281	0.0000	OK
15 minute winter	MH-94-S	11	6.493	0.943	947.9	2.4000	0.0000	SURCHARGED
15 minute winter	Tank	11	6.609	1.019	899.2	7.2002	0.0000	SURCHARGED
15 minute winter	MH-5-S	11	6.935	1.335	845.9	3.3968	0.0000	FLOOD RISK
15 minute winter	MH-6-S	11	7.800	2.050	794.6	5.2160	0.0000	SURCHARGED
15 minute winter	MH-58-S	11	7.788	1.888	246.6	4.8051	0.0000	SURCHARGED
15 minute winter	MH-57-S	11	7.762	1.752	257.2	4.4589	0.0000	SURCHARGED
15 minute winter	MH-59-S	10	7.881	1.681	43.6	1.9012	0.0000	SURCHARGED
15 minute winter	MH-56-S	10	7.713	1.623	262.5	4.1314	0.0000	FLOOD RISK
30 minute winter	MH-54-S	16	7.650	1.480	370.2	3.7666	117.4894	FLOOD
30 minute summer	MH-55-S	17	8.146	0.906	130.8	2.3047	0.0000	FLOOD RISK
15 minute winter	MH-53-S	10	7.716	1.516	181.7	3.8590	0.0000	FLOOD RISK
15 minute winter	MH-52-S	10	7.750	1.430	185.6	3.6397	0.0000	FLOOD RISK
60 minute winter	MH-51-S	30	7.820	1.220	173.8	1.3798	65.2528	FLOOD
30 minute winter	MH-39-S	16	8.150	1.420	242.5	1.6060	31.1563	FLOOD
15 minute winter	MH-40-S	10	8.595	1.795	224.5	2.0296	0.0000	FLOOD RISK
15 minute winter	MH-41-S	10	9.110	2.260	176.3	2.5559	0.0000	FLOOD RISK
15 minute summer	MH-42-S	10	9.330	2.380	95.9	2.6918	1.2241	FLOOD
15 minute winter	MH-44-S	10	9.280	2.180	62.7	2.4656	10.8776	FLOOD
15 minute summer	MH-45-S	10	9.431	2.361	50.4	2.6697	0.0000	FLOOD RISK
15 minute summer	MH-46-S	10	9.430	2.230	41.5	2.5221	2.4184	FLOOD
15 minute summer	MH-43-S	10	9.212	2.182	56.3	2.4681	0.0000	SURCHARGED
15 minute winter	MH-4-S	12	8.791	2.491	721.8	6.3387	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-95-S	PN01-S	Outfall	999.6	1.857	1.529	38.6438	968.1
15 minute winter	MH-94-S	PN02-S	MH-95-S	944.3	1.493	1.507	31.0265	
15 minute winter	Tank	PN03-S	MH-94-S	891.5	1.407	1.299	21.0578	
15 minute winter	MH-5-S	PN04-S	Tank	842.8	2.992	3.176	1.8650	
15 minute winter	MH-6-S	PN05-S	MH-5-S	789.5	2.803	2.108	14.1560	
15 minute winter	MH-58-S	PN06-S	MH-6-S	244.4	0.868	0.379	4.8147	
15 minute winter	MH-57-S	PN07-S	MH-58-S	205.5	1.090	0.522	9.3903	
15 minute winter	MH-59-S	PN08-S	MH-57-S	60.5	0.859	0.874	3.4207	
15 minute winter	MH-56-S	PN09-S	MH-57-S	202.9	1.013	0.791	15.9472	
30 minute winter	MH-54-S	PN10-S	MH-56-S	202.8	0.988	0.989	9.5130	
30 minute summer	MH-55-S	PN11-S	MH-54-S	127.2	0.979	0.322	11.3775	
15 minute winter	MH-53-S	PN12-S	MH-54-S	157.6	0.994	1.090	2.3439	
15 minute winter	MH-52-S	PN13-S	MH-53-S	137.0	0.865	0.474	2.3746	
60 minute winter	MH-51-S	PN14-S	MH-52-S	120.9	1.190	0.914	7.0105	
30 minute winter	MH-39-S	PN15-S	MH-51-S	149.9	1.360	1.468	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	224.6	2.037	2.188	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	177.0	1.605	3.019	6.2219	
15 minute summer	MH-42-S	PN18-S	MH-41-S	86.6	1.229	1.688	3.2468	
15 minute winter	MH-44-S	PN19-S	MH-42-S	26.0	0.654	0.756	1.3476	
15 minute summer	MH-45-S	PN20-S	MH-42-S	52.1	0.740	0.806	2.4700	
15 minute summer	MH-46-S	PN21-S	MH-45-S	18.0	0.539	0.535	1.2199	
15 minute summer	MH-46-S	PN22-S	MH-43-S	17.7	1.004	1.331	0.5299	
15 minute summer	MH-43-S	PN23-S	MH-41-S	55.2	0.784	0.645	2.1235	
15 minute winter	MH-4-S	PN24-S	MH-6-S	732.6	2.601	1.288	22.6530	

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 (m ³)	Flood (m ³)	Status
15 minute winter	MH-60-S	12	9.099	2.649	110.5	2.9958	0.0000	SURCHARGED
15 minute winter	MH-64-S	11	9.560	3.010	43.6	3.4043	1.1115	FLOOD
15 minute winter	MH-62-S	10	9.550	2.960	58.3	3.3478	0.8854	FLOOD
15 minute winter	MH-61-S	9	9.500	2.740	60.6	3.0989	7.0147	FLOOD
15 minute winter	MH-63-S	9	9.550	2.720	43.6	3.0763	7.8459	FLOOD
60 minute winter	MH-65-S	27	8.730	1.730	47.3	1.9566	38.9465	FLOOD
15 minute winter	MH-3-S	12	9.008	2.608	587.1	6.6363	0.0000	SURCHARGED
15 minute winter	MH-2-S	12	9.311	2.811	526.1	7.1538	0.0000	SURCHARGED
15 minute winter	MH-67-S	12	9.700	3.000	68.8	7.6350	0.5028	FLOOD
15 minute winter	MH-68-S	12	9.740	2.920	50.6	7.4314	0.9133	FLOOD
15 minute winter	MH-1-S	12	9.350	2.670	346.8	6.7961	0.0000	SURCHARGED
15 minute winter	MH-92-S	11	9.494	2.484	326.3	6.3208	0.0000	SURCHARGED
15 minute winter	MH-93-S	11	9.553	2.473	311.9	6.2926	0.0000	SURCHARGED
15 minute winter	MH-80-S	11	9.773	2.293	105.4	5.8368	0.0000	FLOOD RISK
15 minute winter	MH-85-S	11	9.820	2.140	23.5	2.4203	1.4311	FLOOD
15 minute winter	MH-91-S	11	9.870	2.270	39.8	2.5674	0.0378	FLOOD
15 minute winter	MH-90-S	11	9.830	2.130	31.1	2.4090	1.6942	FLOOD
30 minute winter	MH-89-S	17	9.670	1.770	31.3	2.0019	9.6657	FLOOD
15 minute winter	MH-82-S	11	9.752	2.072	72.3	2.3438	0.0000	FLOOD RISK
15 minute winter	MH-84-S	11	9.735	1.485	72.3	1.6793	0.0000	FLOOD RISK
30 minute winter	MH-87-S	18	9.500	1.100	75.9	1.2441	21.2083	FLOOD
15 minute winter	MH-81-S	11	9.780	1.980	78.7	2.2394	3.8171	FLOOD
15 minute winter	MH-83-S	11	9.858	1.858	59.0	2.1016	0.0000	FLOOD RISK
15 minute winter	MH-86-S	11	9.880	1.680	23.5	1.9000	0.0000	SURCHARGED
15 minute winter	MH-96-S	11	9.543	2.443	244.1	6.2173	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-60-S	PN25-S	MH-4-S	99.2	1.409	1.421	2.6498	
15 minute winter	MH-64-S	PN26-S	MH-60-S	31.5	1.789	2.169	0.2619	
15 minute winter	MH-62-S	PN27-S	MH-60-S	44.4	2.524	3.014	0.3559	
15 minute winter	MH-61-S	PN28-S	MH-62-S	24.2	1.373	1.653	0.4393	
15 minute winter	MH-63-S	PN29-S	MH-61-S	20.3	1.152	1.301	0.1594	
60 minute winter	MH-65-S	PN30-S	MH-61-S	-25.5	-1.448	-1.618	0.5353	
15 minute winter	MH-3-S	PN31-S	MH-4-S	597.9	2.123	1.018	3.8612	
15 minute winter	MH-2-S	PN32-S	MH-3-S	518.7	1.842	1.483	10.8034	
15 minute winter	MH-67-S	PN33-S	MH-2-S	70.7	1.777	1.533	1.0093	
15 minute winter	MH-68-S	PN34-S	MH-67-S	35.6	0.895	0.703	0.5017	
15 minute winter	MH-1-S	PN35-S	MH-2-S	314.2	1.454	0.553	2.8400	
15 minute winter	MH-92-S	PN36-S	MH-1-S	299.1	1.888	0.979	5.8458	
15 minute winter	MH-93-S	PN37-S	MH-92-S	286.5	1.808	1.569	3.4444	
15 minute winter	MH-80-S	PN38-S	MH-93-S	88.1	1.251	1.039	4.8130	
15 minute winter	MH-85-S	PN39-S	MH-80-S	14.4	0.816	0.903	0.4369	
15 minute winter	MH-91-S	PN40-S	MH-80-S	28.7	1.628	1.943	0.3046	
15 minute winter	MH-90-S	PN41-S	MH-91-S	17.7	1.004	1.054	0.1967	
30 minute winter	MH-89-S	PN42-S	MH-90-S	-13.6	-0.770	-0.822	0.4076	
15 minute winter	MH-82-S	PN43-S	MH-80-S	63.4	0.998	0.733	2.3101	
15 minute winter	MH-84-S	PN44-S	MH-82-S	46.7	0.820	0.134	0.4126	
30 minute winter	MH-87-S	PN45-S	MH-84-S	-59.1	0.866	-1.103	4.4705	
15 minute winter	MH-81-S	PN46-S	MH-82-S	48.4	0.818	0.536	1.2721	
15 minute winter	MH-83-S	PN47-S	MH-81-S	56.6	0.901	0.559	1.6942	
15 minute winter	MH-86-S	PN48-S	MH-83-S	36.9	0.769	0.385	1.8844	
15 minute winter	MH-96-S	PN49-S	MH-93-S	217.9	1.376	1.646	1.8579	

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 (m ³)	Flood (m ³)	Status
15 minute winter	MH-97-S	11	9.488	2.338	231.2	5.9510	0.0000	FLOOD RISK
15 minute winter	MH-98-S	12	9.469	2.289	218.8	5.8261	0.0000	SURCHARGED
15 minute winter	MH-104-S	11	9.410	1.910	191.5	2.1602	16.7123	FLOOD
15 minute winter	MH-99-S	12	9.406	1.856	163.9	2.0990	0.0000	FLOOD RISK
30 minute winter	MH-103-S	16	9.360	1.630	87.6	1.8435	27.6025	FLOOD
15 minute summer	MH-107-S	9	9.540	1.490	80.0	1.6852	1.1074	FLOOD
30 minute winter	MH-109-S	15	9.390	1.190	66.1	1.3459	28.3578	FLOOD
15 minute summer	MH-108-S	9	9.690	1.570	40.1	1.7757	0.1846	FLOOD
15 minute winter	MH-102-S	11	9.401	1.831	90.3	2.0712	0.0000	FLOOD RISK
30 minute winter	MH-106-S	16	9.310	1.570	85.2	1.7757	29.5585	FLOOD
15 minute winter	MH-110-S	9	9.335	1.585	40.2	1.7926	0.7136	FLOOD
30 minute winter	MH-111-S	16	9.310	1.550	36.7	1.7531	12.1384	FLOOD
30 minute winter	MH-112-S	16	9.310	1.540	34.3	1.7417	7.2597	FLOOD
30 minute winter	MH-113-S	16	9.310	1.490	45.5	1.6852	17.8404	FLOOD
15 minute winter	MH-114-S	9	9.450	1.360	45.5	1.5382	0.3777	FLOOD
15 minute winter	MH-115-S	9	9.400	1.080	26.1	1.2215	4.3995	FLOOD
15 minute summer	MH-66-S	12	9.074	2.274	63.6	2.5718	0.0000	SURCHARGED
15 minute winter	MH-70-S	11	9.488	2.828	228.0	7.1961	0.0000	FLOOD RISK
15 minute winter	MH-71-S	11	9.637	2.597	69.6	2.9374	0.0000	FLOOD RISK
15 minute winter	MH-75-S	11	9.722	2.552	65.0	2.8860	0.0000	FLOOD RISK
15 minute winter	MH-72-S	11	9.591	2.641	135.0	2.9871	0.0000	SURCHARGED
15 minute summer	MH-73-S	11	9.744	2.484	168.2	2.8091	0.0000	FLOOD RISK
15 minute summer	MH-74-S	11	9.876	2.426	40.1	2.7443	0.0000	FLOOD RISK
15 minute winter	MH-101-S	10	9.410	1.430	42.3	1.6173	5.5130	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-97-S	PN50-S	MH-96-S	204.4	1.290	1.565	4.7710	
15 minute winter	MH-98-S	PN51-S	MH-97-S	191.5	1.209	1.377	2.5288	
15 minute winter	MH-104-S	PN52-S	MH-98-S	179.1	1.624	0.569	1.4334	
15 minute winter	MH-99-S	PN53-S	MH-104-S	152.4	1.523	1.584	2.3484	
30 minute winter	MH-103-S	PN54-S	MH-99-S	66.0	1.659	1.324	0.7777	
15 minute summer	MH-107-S	PN55-S	MH-103-S	44.0	1.166	0.696	0.8631	
30 minute winter	MH-109-S	PN56-S	MH-107-S	-27.5	0.710	-0.780	1.2891	
15 minute summer	MH-108-S	PN57-S	MH-107-S	39.8	1.002	1.304	0.7961	
15 minute winter	MH-102-S	PN58-S	MH-99-S	76.4	1.085	1.304	0.4998	
30 minute winter	MH-106-S	PN59-S	MH-102-S	-58.4	-0.830	-0.640	1.7660	
15 minute winter	MH-110-S	PN60-S	MH-106-S	43.2	0.816	1.205	0.6543	
30 minute winter	MH-111-S	PN61-S	MH-110-S	37.8	0.586	1.186	0.8251	
30 minute winter	MH-112-S	PN62-S	MH-111-S	34.4	0.488	0.996	0.7055	
30 minute winter	MH-113-S	PN63-S	MH-112-S	31.3	0.445	0.429	0.8088	
15 minute winter	MH-114-S	PN64-S	MH-113-S	29.7	0.853	0.494	0.8037	
15 minute winter	MH-115-S	PN65-S	MH-114-S	13.4	0.723	0.401	2.2018	
15 minute summer	MH-66-S	PN66-S	MH-3-S	64.2	0.670	0.576	8.5343	
15 minute winter	MH-70-S	PN67-S	MH-2-S	219.8	1.018	0.920	14.0767	
15 minute winter	MH-71-S	PN68-S	MH-70-S	73.3	1.041	0.519	1.6627	
15 minute winter	MH-75-S	PN69-S	MH-71-S	36.6	0.897	0.504	2.1223	
15 minute winter	MH-72-S	PN70-S	MH-70-S	132.6	1.202	0.531	2.0585	
15 minute summer	MH-73-S	PN71-S	MH-72-S	-109.6	1.034	-0.841	8.0104	
15 minute summer	MH-74-S	PN72-S	MH-73-S	46.3	0.737	0.457	8.0582	
15 minute winter	MH-101-S	PN73-S	MH-102-S	29.1	0.732	0.486	1.2320	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	Outfall	11	6.039	0.619	1090.0	0.0000	0.0000	OK
15 minute winter	MH-95-S	11	6.398	0.898	1084.9	2.2852	0.0000	OK
15 minute winter	MH-94-S	11	6.578	1.028	1011.7	2.6153	0.0000	SURCHARGED
15 minute winter	Tank	11	6.702	1.112	938.5	7.8634	0.0000	SURCHARGED
15 minute winter	MH-5-S	11	7.043	1.443	867.4	3.6736	0.0000	FLOOD RISK
15 minute winter	MH-6-S	10	7.898	2.148	814.4	5.4656	0.0000	SURCHARGED
15 minute summer	MH-58-S	11	7.888	1.988	288.4	5.0605	0.0000	SURCHARGED
15 minute winter	MH-57-S	11	7.877	1.867	219.1	4.7510	0.0000	FLOOD RISK
15 minute winter	MH-59-S	11	8.017	1.817	56.7	2.0554	0.0000	SURCHARGED
15 minute winter	MH-56-S	11	7.814	1.724	255.3	4.3876	0.0000	FLOOD RISK
30 minute winter	MH-54-S	15	7.650	1.480	538.4	3.7666	220.6471	FLOOD
30 minute summer	MH-55-S	16	8.224	0.984	167.3	2.5035	0.0000	FLOOD RISK
15 minute summer	MH-53-S	9	7.793	1.593	197.0	4.0552	0.0000	FLOOD RISK
15 minute summer	MH-52-S	9	7.851	1.531	179.5	3.8971	0.0000	FLOOD RISK
60 minute winter	MH-51-S	27	7.820	1.220	180.6	1.3798	98.3973	FLOOD
30 minute winter	MH-39-S	14	8.150	1.420	268.6	1.6060	51.9886	FLOOD
15 minute winter	MH-40-S	10	8.641	1.841	236.1	2.0817	0.0000	FLOOD RISK
15 minute winter	MH-41-S	9	9.150	2.300	190.6	2.6013	1.9888	FLOOD
15 minute summer	MH-42-S	9	9.330	2.380	110.2	2.6918	6.2175	FLOOD
30 minute winter	MH-44-S	15	9.280	2.180	64.7	2.4656	22.1059	FLOOD
15 minute summer	MH-45-S	9	9.520	2.450	52.7	2.7710	0.0000	FLOOD RISK
15 minute winter	MH-46-S	9	9.430	2.230	56.8	2.5221	8.9403	FLOOD
15 minute winter	MH-43-S	10	9.287	2.257	66.8	2.5524	0.0000	FLOOD RISK
15 minute winter	MH-4-S	11	9.061	2.761	757.5	7.0272	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-95-S	PN01-S	Outfall	1090.0	1.912	1.668	40.1926	1046.2
15 minute winter	MH-94-S	PN02-S	MH-95-S	1013.3	1.599	1.617	31.5009	
15 minute winter	Tank	PN03-S	MH-94-S	940.1	1.484	1.370	21.0578	
15 minute winter	MH-5-S	PN04-S	Tank	863.2	3.065	3.253	1.8650	
15 minute winter	MH-6-S	PN05-S	MH-5-S	791.3	2.810	2.113	14.1560	
15 minute summer	MH-58-S	PN06-S	MH-6-S	258.2	0.917	0.401	4.8147	
15 minute winter	MH-57-S	PN07-S	MH-58-S	208.9	1.137	0.530	9.3903	
15 minute winter	MH-59-S	PN08-S	MH-57-S	55.5	0.788	0.802	3.4207	
15 minute winter	MH-56-S	PN09-S	MH-57-S	-198.7	1.009	-0.774	15.9472	
30 minute winter	MH-54-S	PN10-S	MH-56-S	201.1	1.002	0.980	9.5130	
30 minute summer	MH-55-S	PN11-S	MH-54-S	165.2	1.042	0.418	11.3775	
15 minute summer	MH-53-S	PN12-S	MH-54-S	184.4	1.164	1.276	2.3439	
15 minute summer	MH-52-S	PN13-S	MH-53-S	152.2	0.960	0.526	2.3746	
60 minute winter	MH-51-S	PN14-S	MH-52-S	113.1	1.181	0.854	7.0105	
30 minute winter	MH-39-S	PN15-S	MH-51-S	149.9	1.360	1.468	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	235.9	2.139	2.298	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	177.1	1.606	3.021	6.2219	
15 minute summer	MH-42-S	PN18-S	MH-41-S	82.6	1.174	1.612	3.2468	
30 minute winter	MH-44-S	PN19-S	MH-42-S	26.9	0.676	0.781	1.3476	
15 minute summer	MH-45-S	PN20-S	MH-42-S	52.9	0.751	0.818	2.4700	
15 minute winter	MH-46-S	PN21-S	MH-45-S	18.5	0.545	0.549	1.2199	
15 minute winter	MH-46-S	PN22-S	MH-43-S	17.8	1.009	1.336	0.5299	
15 minute winter	MH-43-S	PN23-S	MH-41-S	66.5	0.945	0.777	2.1235	
15 minute winter	MH-4-S	PN24-S	MH-6-S	762.4	2.707	1.341	22.6530	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	MH-60-S	11	9.349	2.899	113.7	3.2789	0.0000	FLOOD RISK
15 minute winter	MH-64-S	10	9.560	3.010	55.4	3.4043	5.0813	FLOOD
15 minute winter	MH-62-S	9	9.550	2.960	61.9	3.3478	4.9757	FLOOD
30 minute winter	MH-61-S	15	9.500	2.740	61.1	3.0989	12.2681	FLOOD
30 minute winter	MH-63-S	14	9.550	2.720	42.5	3.0763	13.2337	FLOOD
60 minute winter	MH-65-S	24	8.730	1.730	54.4	1.9566	56.4347	FLOOD
15 minute winter	MH-3-S	11	9.293	2.893	615.1	7.3631	0.0000	SURCHARGED
15 minute winter	MH-2-S	11	9.581	3.081	535.7	7.8418	0.0000	FLOOD RISK
15 minute winter	MH-67-S	11	9.700	3.000	85.3	7.6350	7.9462	FLOOD
15 minute winter	MH-68-S	11	9.740	2.920	64.3	7.4314	6.9637	FLOOD
15 minute winter	MH-1-S	11	9.612	2.932	357.0	7.4607	0.0000	FLOOD RISK
15 minute summer	MH-92-S	11	9.662	2.652	331.5	6.7487	0.0000	SURCHARGED
15 minute summer	MH-93-S	11	9.668	2.588	317.2	6.5863	0.0000	SURCHARGED
15 minute winter	MH-80-S	10	9.808	2.328	94.1	5.9241	0.0000	FLOOD RISK
15 minute winter	MH-85-S	10	9.820	2.140	29.8	2.4203	4.1904	FLOOD
15 minute winter	MH-91-S	10	9.870	2.270	43.3	2.5674	1.2015	FLOOD
15 minute winter	MH-90-S	10	9.830	2.130	38.9	2.4090	4.9302	FLOOD
60 minute winter	MH-89-S	30	9.670	1.770	28.7	2.0019	16.4965	FLOOD
15 minute winter	MH-82-S	11	9.782	2.102	60.1	2.3776	0.0000	FLOOD RISK
15 minute winter	MH-84-S	11	9.768	1.518	74.1	1.7169	0.0000	FLOOD RISK
60 minute winter	MH-87-S	30	9.500	1.100	68.3	1.2441	36.6093	FLOOD
15 minute winter	MH-81-S	10	9.780	1.980	90.8	2.2394	13.4044	FLOOD
15 minute winter	MH-83-S	10	9.900	1.900	67.1	2.1489	0.1692	FLOOD
15 minute winter	MH-86-S	10	9.916	1.716	61.4	1.9407	0.0000	SURCHARGED
15 minute summer	MH-96-S	11	9.659	2.559	258.6	6.5135	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-60-S	PN25-S	MH-4-S	98.0	1.392	1.403	2.6498	
15 minute winter	MH-64-S	PN26-S	MH-60-S	30.8	1.750	2.122	0.2619	
15 minute winter	MH-62-S	PN27-S	MH-60-S	45.2	2.567	3.067	0.3559	
30 minute winter	MH-61-S	PN28-S	MH-62-S	26.1	1.482	1.785	0.4393	
30 minute winter	MH-63-S	PN29-S	MH-61-S	20.3	1.155	1.305	0.1594	
60 minute winter	MH-65-S	PN30-S	MH-61-S	-26.2	-1.491	-1.666	0.5353	
15 minute winter	MH-3-S	PN31-S	MH-4-S	619.2	2.199	1.054	3.8612	
15 minute winter	MH-2-S	PN32-S	MH-3-S	530.6	1.884	1.517	10.8034	
15 minute winter	MH-67-S	PN33-S	MH-2-S	71.4	1.795	1.549	1.0093	
15 minute winter	MH-68-S	PN34-S	MH-67-S	35.5	0.893	0.700	0.5017	
15 minute winter	MH-1-S	PN35-S	MH-2-S	328.2	1.519	0.578	2.8400	
15 minute summer	MH-92-S	PN36-S	MH-1-S	292.3	1.856	0.956	5.8458	
15 minute summer	MH-93-S	PN37-S	MH-92-S	282.8	1.785	1.549	3.4444	
15 minute winter	MH-80-S	PN38-S	MH-93-S	87.6	1.244	1.033	4.8130	
15 minute winter	MH-85-S	PN39-S	MH-80-S	13.6	0.775	0.857	0.4369	
15 minute winter	MH-91-S	PN40-S	MH-80-S	28.5	1.617	1.930	0.3046	
15 minute winter	MH-90-S	PN41-S	MH-91-S	16.3	0.925	0.970	0.1967	
60 minute winter	MH-89-S	PN42-S	MH-90-S	-13.6	-0.770	-0.822	0.4076	
15 minute winter	MH-82-S	PN43-S	MH-80-S	63.6	1.029	0.734	2.3101	
15 minute winter	MH-84-S	PN44-S	MH-82-S	45.5	0.794	0.131	0.4126	
60 minute winter	MH-87-S	PN45-S	MH-84-S	-53.1	0.797	-0.992	4.4705	
15 minute winter	MH-81-S	PN46-S	MH-82-S	46.9	0.797	0.519	1.2721	
15 minute winter	MH-83-S	PN47-S	MH-81-S	61.0	0.906	0.603	1.6942	
15 minute winter	MH-86-S	PN48-S	MH-83-S	-38.2	0.778	-0.398	1.8844	
15 minute summer	MH-96-S	PN49-S	MH-93-S	225.2	1.421	1.701	1.8579	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	MH-97-S	11	9.620	2.470	231.9	6.2862	1.6911	FLOOD
15 minute winter	MH-98-S	11	9.579	2.399	222.3	6.1055	0.0000	SURCHARGED
15 minute winter	MH-104-S	10	9.410	1.910	246.7	2.1602	47.7001	FLOOD
15 minute winter	MH-99-S	10	9.413	1.863	166.6	2.1067	0.0000	FLOOD RISK
30 minute winter	MH-103-S	15	9.360	1.630	106.7	1.8435	46.8092	FLOOD
15 minute winter	MH-107-S	8	9.540	1.490	93.6	1.6852	4.0643	FLOOD
60 minute winter	MH-109-S	28	9.390	1.190	55.4	1.3459	43.0246	FLOOD
15 minute winter	MH-108-S	8	9.690	1.570	53.6	1.7757	2.3306	FLOOD
15 minute winter	MH-102-S	10	9.411	1.841	77.4	2.0819	0.0000	FLOOD RISK
60 minute winter	MH-106-S	29	9.310	1.570	82.4	1.7757	48.0564	FLOOD
30 minute winter	MH-110-S	15	9.314	1.564	40.5	1.7694	0.0000	FLOOD RISK
30 minute winter	MH-111-S	15	9.310	1.550	37.7	1.7531	17.8046	FLOOD
30 minute winter	MH-112-S	15	9.310	1.540	33.5	1.7417	11.0123	FLOOD
60 minute winter	MH-113-S	29	9.310	1.490	41.1	1.6852	29.7445	FLOOD
15 minute winter	MH-114-S	10	9.404	1.314	51.0	1.4863	0.0000	FLOOD RISK
15 minute summer	MH-115-S	9	9.400	1.080	38.4	1.2215	6.5556	FLOOD
15 minute summer	MH-66-S	11	9.417	2.617	51.0	2.9599	0.0000	SURCHARGED
15 minute winter	MH-70-S	11	9.777	3.117	251.0	7.9323	0.0000	FLOOD RISK
15 minute winter	MH-71-S	11	9.850	2.810	99.7	3.1781	4.6784	FLOOD
15 minute winter	MH-75-S	11	9.932	2.762	53.6	3.1233	0.0000	FLOOD RISK
15 minute winter	MH-72-S	11	9.888	2.938	143.0	3.3231	0.0000	FLOOD RISK
15 minute winter	MH-73-S	11	10.010	2.750	170.1	3.1103	0.8975	FLOOD
15 minute summer	MH-74-S	11	10.050	2.600	55.2	2.9406	4.2406	FLOOD
30 minute winter	MH-101-S	15	9.410	1.430	41.2	1.6173	12.4280	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-97-S	PN50-S	MH-96-S	200.4	1.265	1.535	4.7710	
15 minute winter	MH-98-S	PN51-S	MH-97-S	190.0	1.199	1.366	2.5288	
15 minute winter	MH-104-S	PN52-S	MH-98-S	180.4	1.636	0.573	1.4334	
15 minute winter	MH-99-S	PN53-S	MH-104-S	152.9	1.542	1.589	2.3484	
30 minute winter	MH-103-S	PN54-S	MH-99-S	67.7	1.703	1.359	0.7777	
15 minute winter	MH-107-S	PN55-S	MH-103-S	45.6	1.165	0.721	0.8631	
60 minute winter	MH-109-S	PN56-S	MH-107-S	-22.6	0.726	-0.643	1.2891	
15 minute winter	MH-108-S	PN57-S	MH-107-S	40.0	1.006	1.310	0.7961	
15 minute winter	MH-102-S	PN58-S	MH-99-S	67.2	0.954	1.147	0.4998	
60 minute winter	MH-106-S	PN59-S	MH-102-S	-58.8	-0.835	-0.644	1.7660	
30 minute winter	MH-110-S	PN60-S	MH-106-S	41.5	0.866	1.157	0.6543	
30 minute winter	MH-111-S	PN61-S	MH-110-S	38.9	0.599	1.220	0.8251	
30 minute winter	MH-112-S	PN62-S	MH-111-S	36.0	0.512	1.044	0.7055	
60 minute winter	MH-113-S	PN63-S	MH-112-S	26.0	0.395	0.356	0.8088	
15 minute winter	MH-114-S	PN64-S	MH-113-S	31.1	0.783	0.518	0.8037	
15 minute summer	MH-115-S	PN65-S	MH-114-S	-11.4	0.714	-0.344	2.2018	
15 minute summer	MH-66-S	PN66-S	MH-3-S	46.1	0.481	0.414	8.5343	
15 minute winter	MH-70-S	PN67-S	MH-2-S	254.4	1.178	1.065	14.0767	
15 minute winter	MH-71-S	PN68-S	MH-70-S	78.9	1.121	0.559	1.6627	
15 minute winter	MH-75-S	PN69-S	MH-71-S	49.3	0.926	0.678	2.1223	
15 minute winter	MH-72-S	PN70-S	MH-70-S	133.3	1.209	0.534	2.0585	
15 minute winter	MH-73-S	PN71-S	MH-72-S	-119.7	-1.085	-0.919	8.0104	
15 minute summer	MH-74-S	PN72-S	MH-73-S	44.6	0.714	0.440	8.0582	
30 minute winter	MH-101-S	PN73-S	MH-102-S	23.6	0.593	0.394	1.2320	

Results for 50 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	Outfall	11	6.047	0.627	1119.5	0.0000	0.0000	OK
15 minute winter	MH-95-S	10	6.423	0.923	1124.2	2.3495	0.0000	SURCHARGED
15 minute winter	MH-94-S	10	6.622	1.072	1039.3	2.7282	0.0000	SURCHARGED
15 minute winter	Tank	10	6.753	1.163	954.2	8.2246	0.0000	SURCHARGED
15 minute winter	MH-5-S	10	7.100	1.500	886.6	3.8175	1.0902	FLOOD
15 minute winter	MH-6-S	10	7.994	2.244	819.5	5.7102	0.0000	SURCHARGED
15 minute winter	MH-58-S	10	7.981	2.081	270.3	5.2963	0.0000	SURCHARGED
15 minute winter	MH-57-S	10	7.951	1.941	247.9	4.9397	0.0000	FLOOD RISK
15 minute winter	MH-59-S	10	8.098	1.898	61.7	2.1469	0.0000	SURCHARGED
15 minute winter	MH-56-S	10	7.849	1.759	284.9	4.4772	0.0000	FLOOD RISK
30 minute winter	MH-54-S	14	7.650	1.480	607.5	3.7666	269.3100	FLOOD
15 minute winter	MH-55-S	9	8.211	0.971	220.1	2.4709	0.0000	FLOOD RISK
15 minute summer	MH-53-S	9	7.750	1.550	238.2	3.9438	0.0000	FLOOD RISK
15 minute summer	MH-52-S	9	7.795	1.475	217.8	3.7538	0.0000	FLOOD RISK
120 minute winter	MH-51-S	54	7.820	1.220	171.0	1.3798	116.7424	FLOOD
30 minute winter	MH-39-S	14	8.150	1.420	281.8	1.6060	63.6453	FLOOD
15 minute winter	MH-40-S	10	8.650	1.850	241.2	2.0924	0.1826	FLOOD
15 minute winter	MH-41-S	9	9.150	2.300	203.0	2.6013	4.2743	FLOOD
15 minute winter	MH-42-S	9	9.330	2.380	122.6	2.6918	8.1776	FLOOD
30 minute winter	MH-44-S	15	9.280	2.180	70.3	2.4656	27.7470	FLOOD
15 minute winter	MH-45-S	9	9.455	2.385	61.7	2.6971	0.0000	FLOOD RISK
15 minute winter	MH-46-S	9	9.430	2.230	68.0	2.5221	12.0398	FLOOD
15 minute winter	MH-43-S	10	9.312	2.282	72.2	2.5806	0.0000	FLOOD RISK
15 minute winter	MH-4-S	10	9.182	2.882	758.5	7.3356	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-95-S	PN01-S	Outfall	1119.5	1.933	1.713	40.4716	1082.5
15 minute winter	MH-94-S	PN02-S	MH-95-S	1039.3	1.640	1.659	31.5150	
15 minute winter	Tank	PN03-S	MH-94-S	954.4	1.506	1.391	21.0578	
15 minute winter	MH-5-S	PN04-S	Tank	869.3	3.086	3.275	1.8650	
15 minute winter	MH-6-S	PN05-S	MH-5-S	802.7	2.850	2.143	14.1560	
15 minute winter	MH-58-S	PN06-S	MH-6-S	245.4	0.871	0.381	4.8147	
15 minute winter	MH-57-S	PN07-S	MH-58-S	222.1	1.138	0.564	9.3903	
15 minute winter	MH-59-S	PN08-S	MH-57-S	59.8	0.849	0.864	3.4207	
15 minute winter	MH-56-S	PN09-S	MH-57-S	-221.6	1.032	-0.864	15.9472	
30 minute winter	MH-54-S	PN10-S	MH-56-S	-220.3	-1.020	-1.074	9.5130	
15 minute winter	MH-55-S	PN11-S	MH-54-S	231.6	1.462	0.586	11.3775	
15 minute summer	MH-53-S	PN12-S	MH-54-S	217.8	1.375	1.507	2.3439	
15 minute summer	MH-52-S	PN13-S	MH-53-S	188.2	1.188	0.651	2.3746	
120 minute winter	MH-51-S	PN14-S	MH-52-S	123.5	1.183	0.933	7.0105	
30 minute winter	MH-39-S	PN15-S	MH-51-S	149.9	1.360	1.468	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	238.4	2.162	2.322	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	178.6	1.620	3.046	6.2219	
15 minute winter	MH-42-S	PN18-S	MH-41-S	84.4	1.199	1.646	3.2468	
30 minute winter	MH-44-S	PN19-S	MH-42-S	26.6	0.669	0.773	1.3476	
15 minute winter	MH-45-S	PN20-S	MH-42-S	55.5	0.788	0.858	2.4700	
15 minute winter	MH-46-S	PN21-S	MH-45-S	12.7	0.528	0.377	1.2199	
15 minute winter	MH-46-S	PN22-S	MH-43-S	16.8	0.955	1.265	0.5299	
15 minute winter	MH-43-S	PN23-S	MH-41-S	72.0	1.023	0.841	2.1235	
15 minute winter	MH-4-S	PN24-S	MH-6-S	761.4	2.703	1.339	22.6530	

Results for 50 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	MH-60-S	10	9.456	3.006	120.6	3.3998	0.0000	FLOOD RISK
15 minute winter	MH-64-S	9	9.560	3.010	61.7	3.4043	9.0077	FLOOD
15 minute winter	MH-62-S	9	9.550	2.960	61.7	3.3478	7.7543	FLOOD
30 minute winter	MH-61-S	14	9.500	2.740	66.3	3.0989	16.1872	FLOOD
30 minute winter	MH-63-S	14	9.550	2.720	47.6	3.0763	16.5213	FLOOD
120 minute winter	MH-65-S	50	8.730	1.730	44.1	1.9566	66.7118	FLOOD
15 minute winter	MH-3-S	10	9.408	3.008	611.9	7.6551	0.0000	SURCHARGED
15 minute winter	MH-2-S	10	9.671	3.171	523.9	8.0699	0.0000	FLOOD RISK
15 minute winter	MH-67-S	10	9.700	3.000	96.1	7.6350	11.5420	FLOOD
15 minute winter	MH-68-S	10	9.740	2.920	71.8	7.4314	8.2354	FLOOD
15 minute winter	MH-1-S	10	9.709	3.029	362.9	7.7094	0.0000	FLOOD RISK
15 minute winter	MH-92-S	10	9.753	2.743	339.6	6.9812	0.0000	SURCHARGED
15 minute winter	MH-93-S	10	9.741	2.661	325.1	6.7728	0.0000	SURCHARGED
15 minute summer	MH-80-S	10	9.836	2.356	88.1	5.9958	0.0000	FLOOD RISK
30 minute winter	MH-85-S	16	9.820	2.140	25.6	2.4203	5.8703	FLOOD
15 minute winter	MH-91-S	9	9.870	2.270	44.0	2.5674	2.0253	FLOOD
30 minute winter	MH-90-S	16	9.830	2.130	34.9	2.4090	6.7673	FLOOD
60 minute winter	MH-89-S	29	9.670	1.770	30.5	2.0019	21.5743	FLOOD
15 minute summer	MH-82-S	10	9.795	2.115	78.3	2.3917	0.0000	FLOOD RISK
15 minute summer	MH-84-S	10	9.782	1.532	76.8	1.7325	0.0000	FLOOD RISK
60 minute winter	MH-87-S	29	9.500	1.100	76.4	1.2441	49.7752	FLOOD
15 minute winter	MH-81-S	10	9.780	1.980	98.9	2.2394	17.3695	FLOOD
15 minute summer	MH-83-S	10	9.900	1.900	73.0	2.1489	0.8240	FLOOD
15 minute summer	MH-86-S	10	9.958	1.758	31.5	1.9881	0.0000	SURCHARGED
15 minute winter	MH-96-S	10	9.719	2.619	256.2	6.6653	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-60-S	PN25-S	MH-4-S	107.2	1.523	1.535	2.6498	
15 minute winter	MH-64-S	PN26-S	MH-60-S	31.7	1.800	2.183	0.2619	
15 minute winter	MH-62-S	PN27-S	MH-60-S	45.3	2.573	3.074	0.3559	
30 minute winter	MH-61-S	PN28-S	MH-62-S	25.1	1.427	1.719	0.4393	
30 minute winter	MH-63-S	PN29-S	MH-61-S	20.3	1.151	1.300	0.1594	
120 minute winter	MH-65-S	PN30-S	MH-61-S	-24.7	-1.404	-1.569	0.5353	
15 minute winter	MH-3-S	PN31-S	MH-4-S	617.7	2.193	1.051	3.8612	
15 minute winter	MH-2-S	PN32-S	MH-3-S	533.6	1.895	1.526	10.8034	
15 minute winter	MH-67-S	PN33-S	MH-2-S	71.1	1.787	1.542	1.0093	
15 minute winter	MH-68-S	PN34-S	MH-67-S	35.8	0.901	0.707	0.5017	
15 minute winter	MH-1-S	PN35-S	MH-2-S	326.9	1.513	0.576	2.8400	
15 minute winter	MH-92-S	PN36-S	MH-1-S	306.8	1.937	1.004	5.8458	
15 minute winter	MH-93-S	PN37-S	MH-92-S	292.9	1.849	1.604	3.4444	
15 minute summer	MH-80-S	PN38-S	MH-93-S	87.5	1.243	1.032	4.8130	
30 minute winter	MH-85-S	PN39-S	MH-80-S	14.1	0.801	0.886	0.4369	
15 minute winter	MH-91-S	PN40-S	MH-80-S	29.5	1.674	1.998	0.3046	
30 minute winter	MH-90-S	PN41-S	MH-91-S	16.5	0.937	0.983	0.1967	
60 minute winter	MH-89-S	PN42-S	MH-90-S	-13.6	-0.770	-0.822	0.4076	
15 minute summer	MH-82-S	PN43-S	MH-80-S	63.5	0.998	0.734	2.3101	
15 minute summer	MH-84-S	PN44-S	MH-82-S	-46.7	0.817	-0.134	0.4126	
60 minute winter	MH-87-S	PN45-S	MH-84-S	-59.4	-0.844	-1.109	4.4705	
15 minute winter	MH-81-S	PN46-S	MH-82-S	48.7	0.811	0.538	1.2721	
15 minute summer	MH-83-S	PN47-S	MH-81-S	60.6	0.915	0.599	1.6942	
15 minute summer	MH-86-S	PN48-S	MH-83-S	41.5	0.753	0.432	1.8844	
15 minute winter	MH-96-S	PN49-S	MH-93-S	222.8	1.406	1.683	1.8579	

Results for 50 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	MH-97-S	10	9.620	2.470	243.1	6.2862	6.1123	FLOOD
15 minute winter	MH-98-S	10	9.582	2.402	230.2	6.1128	0.0000	FLOOD RISK
30 minute winter	MH-104-S	16	9.410	1.910	226.7	2.1602	71.4332	FLOOD
15 minute winter	MH-99-S	10	9.419	1.869	163.8	2.1138	0.0000	FLOOD RISK
60 minute winter	MH-103-S	27	9.360	1.630	89.1	1.8435	58.3413	FLOOD
15 minute summer	MH-107-S	8	9.540	1.490	96.9	1.6852	5.5923	FLOOD
60 minute winter	MH-109-S	27	9.390	1.190	62.8	1.3459	53.1818	FLOOD
15 minute winter	MH-108-S	8	9.690	1.570	59.8	1.7757	3.9444	FLOOD
15 minute winter	MH-102-S	10	9.416	1.846	86.4	2.0876	0.0000	FLOOD RISK
60 minute winter	MH-106-S	28	9.310	1.570	85.7	1.7757	61.9152	FLOOD
15 minute winter	MH-110-S	8	9.334	1.584	42.4	1.7912	0.0000	FLOOD RISK
60 minute winter	MH-111-S	28	9.310	1.550	36.1	1.7531	21.4996	FLOOD
30 minute winter	MH-112-S	14	9.310	1.540	35.1	1.7417	13.7823	FLOOD
60 minute winter	MH-113-S	28	9.310	1.490	43.8	1.6852	35.8350	FLOOD
15 minute winter	MH-114-S	8	9.450	1.360	55.9	1.5382	0.0825	FLOOD
15 minute winter	MH-115-S	8	9.400	1.080	36.1	1.2215	10.3740	FLOOD
15 minute winter	MH-66-S	10	9.560	2.760	117.7	3.1214	0.0000	SURCHARGED
15 minute winter	MH-70-S	10	9.780	3.120	243.1	7.9404	3.4104	FLOOD
15 minute winter	MH-71-S	10	9.850	2.810	122.6	3.1781	9.4097	FLOOD
30 minute summer	MH-75-S	17	9.998	2.828	51.1	3.1981	0.0000	FLOOD RISK
15 minute winter	MH-72-S	10	9.898	2.948	130.1	3.3344	0.0000	FLOOD RISK
15 minute winter	MH-73-S	10	10.010	2.750	148.7	3.1103	2.0360	FLOOD
15 minute summer	MH-74-S	10	10.050	2.600	57.5	2.9406	4.7017	FLOOD
15 minute winter	MH-101-S	8	9.410	1.430	59.8	1.6173	16.0968	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-97-S	PN50-S	MH-96-S	209.4	1.322	1.604	4.7710	
15 minute winter	MH-98-S	PN51-S	MH-97-S	196.3	1.239	1.412	2.5288	
30 minute winter	MH-104-S	PN52-S	MH-98-S	-169.0	-1.533	-0.537	1.4334	
15 minute winter	MH-99-S	PN53-S	MH-104-S	151.5	1.471	1.574	2.3484	
60 minute winter	MH-103-S	PN54-S	MH-99-S	59.6	1.499	1.196	0.7777	
15 minute summer	MH-107-S	PN55-S	MH-103-S	45.6	1.166	0.721	0.8631	
60 minute winter	MH-109-S	PN56-S	MH-107-S	-26.0	0.728	-0.738	1.2891	
15 minute winter	MH-108-S	PN57-S	MH-107-S	40.0	1.006	1.310	0.7961	
15 minute winter	MH-102-S	PN58-S	MH-99-S	77.3	1.098	1.320	0.4998	
60 minute winter	MH-106-S	PN59-S	MH-102-S	-59.5	-0.845	-0.652	1.7660	
15 minute winter	MH-110-S	PN60-S	MH-106-S	43.9	0.854	1.223	0.6543	
60 minute winter	MH-111-S	PN61-S	MH-110-S	34.9	0.595	1.095	0.8251	
30 minute winter	MH-112-S	PN62-S	MH-111-S	35.2	0.500	1.020	0.7055	
60 minute winter	MH-113-S	PN63-S	MH-112-S	25.4	0.396	0.348	0.8088	
15 minute winter	MH-114-S	PN64-S	MH-113-S	31.5	0.791	0.523	0.8037	
15 minute winter	MH-115-S	PN65-S	MH-114-S	14.1	0.717	0.422	2.2018	
15 minute winter	MH-66-S	PN66-S	MH-3-S	-70.9	-0.740	-0.637	8.5343	
15 minute winter	MH-70-S	PN67-S	MH-2-S	256.4	1.187	1.073	14.0767	
15 minute winter	MH-71-S	PN68-S	MH-70-S	82.4	1.170	0.584	1.6627	
30 minute summer	MH-75-S	PN69-S	MH-71-S	53.6	0.834	0.737	2.1223	
15 minute winter	MH-72-S	PN70-S	MH-70-S	130.8	1.186	0.524	2.0585	
15 minute winter	MH-73-S	PN71-S	MH-72-S	-92.4	1.086	-0.709	8.0104	
15 minute summer	MH-74-S	PN72-S	MH-73-S	41.4	0.735	0.409	8.0582	
15 minute winter	MH-101-S	PN73-S	MH-102-S	26.9	0.690	0.450	1.2320	

Results for 100 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	Outfall	10	6.055	0.635	1146.9	0.0000	0.0000	OK
15 minute winter	MH-95-S	10	6.437	0.937	1147.8	2.3840	0.0000	SURCHARGED
15 minute winter	MH-94-S	10	6.636	1.086	1049.3	2.7644	0.0000	SURCHARGED
15 minute winter	Tank	10	6.766	1.176	978.2	8.3137	0.0000	SURCHARGED
15 minute winter	MH-5-S	10	7.100	1.500	919.7	3.8175	7.0605	FLOOD
15 minute summer	MH-6-S	10	8.026	2.276	831.1	5.7936	0.0000	SURCHARGED
15 minute winter	MH-58-S	10	8.016	2.116	304.5	5.3840	0.0000	FLOOD RISK
15 minute winter	MH-57-S	10	8.001	1.991	375.1	5.0659	0.0000	FLOOD RISK
15 minute winter	MH-59-S	10	8.265	2.065	71.7	2.3353	0.0000	SURCHARGED
15 minute winter	MH-56-S	10	7.900	1.810	322.4	4.6065	0.5357	FLOOD
60 minute winter	MH-54-S	26	7.650	1.480	458.0	3.7666	355.0759	FLOOD
15 minute summer	MH-55-S	9	8.298	1.058	243.1	2.6915	0.0000	FLOOD RISK
15 minute winter	MH-53-S	8	7.801	1.601	225.1	4.0733	0.0000	FLOOD RISK
15 minute winter	MH-52-S	8	7.866	1.546	205.0	3.9352	0.0000	FLOOD RISK
120 minute winter	MH-51-S	52	7.820	1.220	174.6	1.3798	158.6604	FLOOD
60 minute winter	MH-39-S	25	8.150	1.420	253.1	1.6060	82.1816	FLOOD
15 minute winter	MH-40-S	9	8.650	1.850	252.0	2.0924	1.8943	FLOOD
15 minute winter	MH-41-S	8	9.150	2.300	222.0	2.6013	10.1552	FLOOD
15 minute winter	MH-42-S	8	9.330	2.380	137.4	2.6918	14.5778	FLOOD
30 minute winter	MH-44-S	14	9.280	2.180	78.8	2.4656	36.7969	FLOOD
15 minute summer	MH-45-S	9	9.463	2.393	68.2	2.7069	0.0000	FLOOD RISK
15 minute winter	MH-46-S	8	9.430	2.230	84.1	2.5221	20.2715	FLOOD
15 minute winter	MH-43-S	10	9.349	2.319	80.3	2.6231	0.0000	FLOOD RISK
15 minute summer	MH-4-S	10	9.237	2.937	763.6	7.4741	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	MH-95-S	PN01-S	Outfall	1146.9	1.953	1.755	40.7041	1132.6
15 minute winter	MH-94-S	PN02-S	MH-95-S	1049.2	1.656	1.674	31.5150	
15 minute winter	Tank	PN03-S	MH-94-S	953.6	1.505	1.389	21.0578	
15 minute winter	MH-5-S	PN04-S	Tank	885.4	3.144	3.336	1.8650	
15 minute summer	MH-6-S	PN05-S	MH-5-S	817.2	2.902	2.182	14.1560	
15 minute winter	MH-58-S	PN06-S	MH-6-S	268.1	0.952	0.416	4.8147	
15 minute winter	MH-57-S	PN07-S	MH-58-S	248.4	1.099	0.631	9.3903	
15 minute winter	MH-59-S	PN08-S	MH-57-S	72.8	1.034	1.052	3.4207	
15 minute winter	MH-56-S	PN09-S	MH-57-S	-244.4	1.054	-0.953	15.9472	
60 minute winter	MH-54-S	PN10-S	MH-56-S	189.2	0.891	0.922	9.5130	
15 minute summer	MH-55-S	PN11-S	MH-54-S	246.8	1.558	0.625	11.3775	
15 minute winter	MH-53-S	PN12-S	MH-54-S	209.4	1.322	1.449	2.3439	
15 minute winter	MH-52-S	PN13-S	MH-53-S	180.2	1.138	0.623	2.3746	
120 minute winter	MH-51-S	PN14-S	MH-52-S	112.4	1.180	0.850	7.0105	
60 minute winter	MH-39-S	PN15-S	MH-51-S	149.9	1.360	1.468	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	238.4	2.162	2.322	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	176.8	1.603	3.016	6.2219	
15 minute winter	MH-42-S	PN18-S	MH-41-S	86.0	1.221	1.677	3.2468	
30 minute winter	MH-44-S	PN19-S	MH-42-S	27.6	0.693	0.801	1.3476	
15 minute summer	MH-45-S	PN20-S	MH-42-S	58.0	0.823	0.897	2.4700	
15 minute winter	MH-46-S	PN21-S	MH-45-S	17.2	0.538	0.512	1.2199	
15 minute winter	MH-46-S	PN22-S	MH-43-S	17.6	1.001	1.326	0.5299	
15 minute winter	MH-43-S	PN23-S	MH-41-S	80.2	1.139	0.936	2.1235	
15 minute summer	MH-4-S	PN24-S	MH-6-S	764.4	2.714	1.344	22.6530	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute summer	MH-60-S	10	9.520	3.070	126.0	3.4720	0.0000	FLOOD RISK
15 minute winter	MH-64-S	9	9.560	3.010	71.7	3.4043	13.0487	FLOOD
15 minute winter	MH-62-S	8	9.550	2.960	71.7	3.3478	12.6319	FLOOD
30 minute winter	MH-61-S	14	9.500	2.740	74.3	3.0989	21.6761	FLOOD
30 minute winter	MH-63-S	13	9.550	2.720	55.6	3.0763	22.0091	FLOOD
120 minute winter	MH-65-S	48	8.730	1.730	48.8	1.9566	87.1309	FLOOD
15 minute summer	MH-3-S	10	9.459	3.059	608.5	7.7858	0.0000	SURCHARGED
15 minute summer	MH-2-S	10	9.690	3.190	522.0	8.1189	0.0000	FLOOD RISK
30 minute winter	MH-67-S	16	9.700	3.000	89.4	7.6350	16.9983	FLOOD
30 minute winter	MH-68-S	16	9.740	2.920	64.6	7.4314	13.0950	FLOOD
15 minute summer	MH-1-S	10	9.730	3.050	368.1	7.7623	0.3735	FLOOD
15 minute summer	MH-92-S	10	9.767	2.757	345.8	7.0170	0.0000	SURCHARGED
15 minute summer	MH-93-S	10	9.754	2.674	332.0	6.8059	0.0000	SURCHARGED
15 minute winter	MH-80-S	9	9.892	2.412	92.0	6.1391	0.0000	FLOOD RISK
30 minute winter	MH-85-S	15	9.820	2.140	29.9	2.4203	8.9986	FLOOD
15 minute winter	MH-91-S	9	9.870	2.270	49.8	2.5674	4.0740	FLOOD
30 minute winter	MH-90-S	15	9.830	2.130	39.2	2.4090	9.9758	FLOOD
60 minute winter	MH-89-S	28	9.670	1.770	33.4	2.0019	28.3849	FLOOD
15 minute winter	MH-82-S	9	9.818	2.138	83.3	2.4185	0.0000	FLOOD RISK
15 minute winter	MH-84-S	9	9.810	1.560	84.5	1.7643	0.0000	FLOOD RISK
60 minute winter	MH-87-S	28	9.500	1.100	81.7	1.2441	66.3087	FLOOD
15 minute winter	MH-81-S	9	9.780	1.980	132.6	2.2394	30.2692	FLOOD
15 minute winter	MH-83-S	9	9.900	1.900	82.4	2.1489	2.4688	FLOOD
15 minute winter	MH-86-S	9	10.029	1.829	38.5	2.0691	0.0000	SURCHARGED
15 minute summer	MH-96-S	10	9.731	2.631	257.5	6.6961	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute summer	MH-60-S	PN25-S	MH-4-S	108.2	1.536	1.549	2.6498	
15 minute winter	MH-64-S	PN26-S	MH-60-S	30.5	1.732	2.101	0.2619	
15 minute winter	MH-62-S	PN27-S	MH-60-S	45.7	2.597	3.103	0.3559	
30 minute winter	MH-61-S	PN28-S	MH-62-S	26.1	1.482	1.785	0.4393	
30 minute winter	MH-63-S	PN29-S	MH-61-S	19.4	1.105	1.248	0.1594	
120 minute winter	MH-65-S	PN30-S	MH-61-S	-26.0	-1.478	-1.652	0.5353	
15 minute summer	MH-3-S	PN31-S	MH-4-S	618.6	2.196	1.053	3.8612	
15 minute summer	MH-2-S	PN32-S	MH-3-S	534.6	1.898	1.528	10.8034	
30 minute winter	MH-67-S	PN33-S	MH-2-S	70.5	1.772	1.529	1.0093	
30 minute winter	MH-68-S	PN34-S	MH-67-S	35.5	0.892	0.700	0.5017	
15 minute summer	MH-1-S	PN35-S	MH-2-S	327.0	1.514	0.576	2.8400	
15 minute summer	MH-92-S	PN36-S	MH-1-S	306.0	1.931	1.001	5.8458	
15 minute summer	MH-93-S	PN37-S	MH-92-S	294.0	1.856	1.610	3.4444	
15 minute winter	MH-80-S	PN38-S	MH-93-S	88.0	1.250	1.038	4.8130	
30 minute winter	MH-85-S	PN39-S	MH-80-S	14.0	0.794	0.878	0.4369	
15 minute winter	MH-91-S	PN40-S	MH-80-S	30.4	1.725	2.059	0.3046	
30 minute winter	MH-90-S	PN41-S	MH-91-S	16.6	0.941	0.987	0.1967	
60 minute winter	MH-89-S	PN42-S	MH-90-S	-13.6	-0.770	-0.822	0.4076	
15 minute winter	MH-82-S	PN43-S	MH-80-S	59.9	1.006	0.692	2.3101	
15 minute winter	MH-84-S	PN44-S	MH-82-S	-54.3	0.807	-0.156	0.4126	
60 minute winter	MH-87-S	PN45-S	MH-84-S	-61.8	-0.878	-1.154	4.4705	
15 minute winter	MH-81-S	PN46-S	MH-82-S	53.1	0.821	0.588	1.2721	
15 minute winter	MH-83-S	PN47-S	MH-81-S	68.6	0.975	0.678	1.6942	
15 minute winter	MH-86-S	PN48-S	MH-83-S	46.2	0.757	0.481	1.8844	
15 minute summer	MH-96-S	PN49-S	MH-93-S	218.8	1.381	1.653	1.8579	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m ³)	Flood (m ³)	Status
15 minute winter	MH-97-S	10	9.620	2.470	240.4	6.2862	15.7815	FLOOD
15 minute winter	MH-98-S	10	9.588	2.408	217.3	6.1285	0.0000	FLOOD RISK
30 minute winter	MH-104-S	15	9.410	1.910	253.4	2.1602	102.1763	FLOOD
15 minute winter	MH-99-S	9	9.424	1.874	166.4	2.1199	0.0000	FLOOD RISK
60 minute winter	MH-103-S	26	9.360	1.630	99.9	1.8435	80.0857	FLOOD
15 minute winter	MH-107-S	7	9.540	1.490	109.5	1.6852	9.1412	FLOOD
60 minute winter	MH-109-S	25	9.390	1.190	74.1	1.3459	68.8826	FLOOD
15 minute winter	MH-108-S	8	9.690	1.570	69.5	1.7757	7.5901	FLOOD
15 minute winter	MH-102-S	9	9.424	1.854	71.9	2.0971	0.0000	FLOOD RISK
60 minute winter	MH-106-S	26	9.310	1.570	90.6	1.7757	80.1815	FLOOD
15 minute summer	MH-110-S	8	9.334	1.584	44.6	1.7915	1.1774	FLOOD
60 minute winter	MH-111-S	26	9.310	1.550	33.3	1.7531	28.4643	FLOOD
60 minute winter	MH-112-S	26	9.310	1.540	29.5	1.7417	17.9270	FLOOD
120 minute winter	MH-113-S	54	9.310	1.490	36.5	1.6852	48.5485	FLOOD
15 minute summer	MH-114-S	9	9.414	1.324	53.9	1.4971	0.0000	FLOOD RISK
15 minute winter	MH-115-S	8	9.400	1.080	44.3	1.2215	12.9886	FLOOD
15 minute summer	MH-66-S	10	9.683	2.883	115.2	3.2603	0.0000	FLOOD RISK
15 minute winter	MH-70-S	10	9.780	3.120	254.4	7.9404	8.7335	FLOOD
15 minute winter	MH-71-S	10	9.850	2.810	138.9	3.1781	15.6248	FLOOD
15 minute winter	MH-75-S	10	9.999	2.829	69.5	3.1992	0.0000	FLOOD RISK
15 minute winter	MH-72-S	10	9.900	2.950	145.2	3.3365	0.7572	FLOOD
15 minute winter	MH-73-S	9	10.010	2.750	197.6	3.1103	5.7501	FLOOD
15 minute winter	MH-74-S	9	10.050	2.600	78.9	2.9406	10.1271	FLOOD
30 minute winter	MH-101-S	14	9.410	1.430	54.3	1.6173	23.1111	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-97-S	PN50-S	MH-96-S	211.4	1.334	1.619	4.7710	
15 minute winter	MH-98-S	PN51-S	MH-97-S	187.7	1.185	1.350	2.5288	
30 minute winter	MH-104-S	PN52-S	MH-98-S	-177.6	-1.611	-0.564	1.4334	
15 minute winter	MH-99-S	PN53-S	MH-104-S	151.6	1.533	1.575	2.3484	
60 minute winter	MH-103-S	PN54-S	MH-99-S	61.8	1.554	1.240	0.7777	
15 minute winter	MH-107-S	PN55-S	MH-103-S	48.9	1.229	0.773	0.8631	
60 minute winter	MH-109-S	PN56-S	MH-107-S	-31.0	-0.781	-0.882	1.2891	
15 minute winter	MH-108-S	PN57-S	MH-107-S	40.0	1.006	1.310	0.7961	
15 minute winter	MH-102-S	PN58-S	MH-99-S	64.0	0.909	1.093	0.4998	
60 minute winter	MH-106-S	PN59-S	MH-102-S	-60.3	-0.857	-0.661	1.7660	
15 minute summer	MH-110-S	PN60-S	MH-106-S	43.9	0.854	1.223	0.6543	
60 minute winter	MH-111-S	PN61-S	MH-110-S	33.2	0.595	1.040	0.8251	
60 minute winter	MH-112-S	PN62-S	MH-111-S	28.3	0.457	0.820	0.7055	
120 minute winter	MH-113-S	PN63-S	MH-112-S	24.1	0.391	0.331	0.8088	
15 minute summer	MH-114-S	PN64-S	MH-113-S	32.2	0.809	0.535	0.8037	
15 minute winter	MH-115-S	PN65-S	MH-114-S	-15.0	0.736	-0.451	2.2018	
15 minute summer	MH-66-S	PN66-S	MH-3-S	63.4	-0.680	0.569	8.5343	
15 minute winter	MH-70-S	PN67-S	MH-2-S	254.2	1.177	1.064	14.0767	
15 minute winter	MH-71-S	PN68-S	MH-70-S	76.5	1.087	0.542	1.6627	
15 minute winter	MH-75-S	PN69-S	MH-71-S	69.4	0.986	0.956	2.1223	
15 minute winter	MH-72-S	PN70-S	MH-70-S	132.4	1.201	0.530	2.0585	
15 minute winter	MH-73-S	PN71-S	MH-72-S	-97.0	1.016	-0.745	8.0104	
15 minute winter	MH-74-S	PN72-S	MH-73-S	46.2	0.723	0.456	8.0582	
30 minute winter	MH-101-S	PN73-S	MH-102-S	21.9	0.553	0.366	1.2320	

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	Outfall	10	6.072	0.652	1206.7	0.0000	0.0000	OK
15 minute winter	MH-95-S	10	6.476	0.976	1207.9	2.4840	0.0000	SURCHARGED
15 minute winter	MH-94-S	10	6.686	1.136	1070.2	2.8900	0.0000	SURCHARGED
15 minute winter	Tank	10	6.810	1.220	999.1	8.6233	0.0000	SURCHARGED
15 minute winter	MH-5-S	8	7.100	1.500	985.5	3.8175	39.0653	FLOOD
15 minute summer	MH-6-S	9	8.134	2.384	873.4	6.0673	0.0000	SURCHARGED
15 minute summer	MH-58-S	9	8.118	2.218	257.5	5.6448	0.0000	FLOOD RISK
15 minute summer	MH-57-S	9	8.078	2.068	316.1	5.2638	0.0000	FLOOD RISK
15 minute winter	MH-59-S	10	8.533	2.333	100.4	2.6386	0.0000	FLOOD RISK
15 minute winter	MH-56-S	9	7.900	1.810	439.0	4.6065	21.3489	FLOOD
60 minute winter	MH-54-S	23	7.650	1.480	657.8	3.7666	639.4050	FLOOD
15 minute summer	MH-55-S	9	8.400	1.160	340.3	2.9522	7.8493	FLOOD
15 minute winter	MH-53-S	10	7.786	1.586	234.4	4.0354	0.0000	FLOOD RISK
15 minute winter	MH-52-S	9	7.826	1.506	191.2	3.8338	0.0000	FLOOD RISK
180 minute winter	MH-51-S	76	7.820	1.220	175.3	1.3798	258.7417	FLOOD
60 minute winter	MH-39-S	22	8.150	1.420	290.3	1.6060	142.6364	FLOOD
15 minute winter	MH-40-S	8	8.650	1.850	283.2	2.0924	10.1342	FLOOD
15 minute winter	MH-41-S	7	9.150	2.300	271.3	2.6013	26.5288	FLOOD
15 minute winter	MH-42-S	7	9.330	2.380	183.4	2.6918	30.8211	FLOOD
60 minute winter	MH-44-S	24	9.280	2.180	74.9	2.4656	64.7371	FLOOD
15 minute winter	MH-45-S	7	9.550	2.480	100.4	2.8054	0.0000	FLOOD RISK
15 minute winter	MH-46-S	7	9.430	2.230	128.5	2.5221	40.1647	FLOOD
15 minute winter	MH-43-S	10	9.447	2.417	100.4	2.7335	0.0000	FLOOD RISK
15 minute summer	MH-4-S	9	9.335	3.035	778.8	7.7232	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	MH-95-S	PN01-S	Outfall	1206.7	2.001	1.846	41.1845	1239.8
15 minute winter	MH-94-S	PN02-S	MH-95-S	1069.9	1.688	1.708	31.5150	
15 minute winter	Tank	PN03-S	MH-94-S	962.3	1.519	1.402	21.0578	
15 minute winter	MH-5-S	PN04-S	Tank	891.3	3.164	3.358	1.8650	
15 minute summer	MH-6-S	PN05-S	MH-5-S	864.9	3.071	2.309	14.1560	
15 minute summer	MH-58-S	PN06-S	MH-6-S	234.5	0.836	0.364	4.8147	
15 minute summer	MH-57-S	PN07-S	MH-58-S	208.3	1.117	0.529	9.3903	
15 minute winter	MH-59-S	PN08-S	MH-57-S	99.3	1.410	1.436	3.4207	
15 minute winter	MH-56-S	PN09-S	MH-57-S	-329.8	-1.171	-1.285	15.9472	
60 minute winter	MH-54-S	PN10-S	MH-56-S	-244.1	-1.130	-1.190	9.5130	
15 minute summer	MH-55-S	PN11-S	MH-54-S	306.2	1.933	0.775	11.3775	
15 minute winter	MH-53-S	PN12-S	MH-54-S	234.5	1.480	1.623	2.3439	
15 minute winter	MH-52-S	PN13-S	MH-53-S	131.1	0.828	0.454	2.3746	
180 minute winter	MH-51-S	PN14-S	MH-52-S	122.4	1.173	0.925	7.0105	
60 minute winter	MH-39-S	PN15-S	MH-51-S	149.9	1.360	1.468	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	238.4	2.162	2.322	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	176.6	1.602	3.012	6.2219	
15 minute winter	MH-42-S	PN18-S	MH-41-S	84.4	1.198	1.645	3.2468	
60 minute winter	MH-44-S	PN19-S	MH-42-S	26.0	0.653	0.755	1.3476	
15 minute winter	MH-45-S	PN20-S	MH-42-S	74.3	1.055	1.149	2.4700	
15 minute winter	MH-46-S	PN21-S	MH-45-S	-26.0	-0.655	-0.773	1.2199	
15 minute winter	MH-46-S	PN22-S	MH-43-S	17.4	0.988	1.309	0.5299	
15 minute winter	MH-43-S	PN23-S	MH-41-S	98.3	1.396	1.148	2.1235	
15 minute summer	MH-4-S	PN24-S	MH-6-S	779.6	2.768	1.371	22.6530	

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 (m ³)	Flood (m ³)	Status
15 minute winter	MH-60-S	9	9.560	3.110	130.5	3.5174	2.1776	FLOOD
30 minute winter	MH-64-S	14	9.560	3.010	77.8	3.4043	29.1847	FLOOD
15 minute winter	MH-62-S	7	9.550	2.960	103.3	3.3478	27.6639	FLOOD
30 minute winter	MH-61-S	12	9.500	2.740	96.5	3.0989	37.8437	FLOOD
30 minute winter	MH-63-S	12	9.550	2.720	77.8	3.0763	36.8191	FLOOD
180 minute winter	MH-65-S	68	8.730	1.730	49.6	1.9566	139.3043	FLOOD
15 minute summer	MH-3-S	9	9.542	3.142	604.2	7.9971	0.0000	FLOOD RISK
15 minute winter	MH-2-S	9	9.700	3.200	517.8	8.1440	5.6416	FLOOD
30 minute winter	MH-67-S	14	9.700	3.000	115.3	7.6350	43.6586	FLOOD
30 minute winter	MH-68-S	14	9.740	2.920	90.5	7.4314	29.5678	FLOOD
15 minute winter	MH-1-S	9	9.730	3.050	373.4	7.7623	12.8855	FLOOD
15 minute winter	MH-92-S	10	9.811	2.801	351.3	7.1292	0.0000	SURCHARGED
15 minute winter	MH-93-S	10	9.816	2.736	336.8	6.9619	0.0000	SURCHARGED
15 minute winter	MH-80-S	8	9.935	2.455	109.8	6.2491	0.0000	FLOOD RISK
30 minute winter	MH-85-S	14	9.820	2.140	41.9	2.4203	18.9704	FLOOD
15 minute winter	MH-91-S	8	9.870	2.270	54.0	2.5674	10.4961	FLOOD
30 minute winter	MH-90-S	13	9.830	2.130	51.1	2.4090	18.6677	FLOOD
120 minute winter	MH-89-S	50	9.670	1.770	30.6	2.0019	50.3539	FLOOD
15 minute winter	MH-82-S	8	9.850	2.170	76.9	2.4543	0.1702	FLOOD
15 minute winter	MH-84-S	8	9.844	1.594	87.1	1.8030	0.0000	FLOOD RISK
120 minute winter	MH-87-S	52	9.500	1.100	76.7	1.2441	113.7152	FLOOD
30 minute winter	MH-81-S	14	9.780	1.980	145.1	2.2394	65.7069	FLOOD
15 minute winter	MH-83-S	8	9.900	1.900	107.8	2.1489	9.4127	FLOOD
15 minute winter	MH-86-S	8	10.063	1.863	54.0	2.1071	0.0000	SURCHARGED
15 minute winter	MH-96-S	10	9.789	2.689	274.3	6.8445	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-60-S	PN25-S	MH-4-S	105.1	1.493	1.505	2.6498	
30 minute winter	MH-64-S	PN26-S	MH-60-S	31.3	1.778	2.156	0.2619	
15 minute winter	MH-62-S	PN27-S	MH-60-S	44.8	2.546	3.041	0.3559	
30 minute winter	MH-61-S	PN28-S	MH-62-S	26.3	1.493	1.799	0.4393	
30 minute winter	MH-63-S	PN29-S	MH-61-S	20.9	1.185	1.339	0.1594	
180 minute winter	MH-65-S	PN30-S	MH-61-S	-26.2	-1.489	-1.664	0.5353	
15 minute summer	MH-3-S	PN31-S	MH-4-S	612.6	2.175	1.043	3.8612	
15 minute winter	MH-2-S	PN32-S	MH-3-S	528.3	1.876	1.510	10.8034	
30 minute winter	MH-67-S	PN33-S	MH-2-S	71.7	1.803	1.556	1.0093	
30 minute winter	MH-68-S	PN34-S	MH-67-S	35.8	0.900	0.706	0.5017	
15 minute winter	MH-1-S	PN35-S	MH-2-S	335.1	1.551	0.590	2.8400	
15 minute winter	MH-92-S	PN36-S	MH-1-S	306.3	1.933	1.002	5.8458	
15 minute winter	MH-93-S	PN37-S	MH-92-S	295.5	1.865	1.618	3.4444	
15 minute winter	MH-80-S	PN38-S	MH-93-S	88.3	1.254	1.041	4.8130	
30 minute winter	MH-85-S	PN39-S	MH-80-S	13.9	0.791	0.875	0.4369	
15 minute winter	MH-91-S	PN40-S	MH-80-S	32.0	1.817	2.169	0.3046	
30 minute winter	MH-90-S	PN41-S	MH-91-S	16.4	0.933	0.979	0.1967	
120 minute winter	MH-89-S	PN42-S	MH-90-S	-13.6	-0.770	-0.822	0.4076	
15 minute winter	MH-82-S	PN43-S	MH-80-S	64.4	1.041	0.744	2.3101	
15 minute winter	MH-84-S	PN44-S	MH-82-S	-50.8	0.821	-0.146	0.4126	
120 minute winter	MH-87-S	PN45-S	MH-84-S	-59.6	-0.846	-1.112	4.4705	
30 minute winter	MH-81-S	PN46-S	MH-82-S	49.8	0.788	0.551	1.2721	
15 minute winter	MH-83-S	PN47-S	MH-81-S	68.6	0.975	0.678	1.6942	
15 minute winter	MH-86-S	PN48-S	MH-83-S	53.9	0.765	0.561	1.8844	
15 minute winter	MH-96-S	PN49-S	MH-93-S	233.9	1.476	1.767	1.8579	

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 (m ³)	Flood (m ³)	Status
15 minute winter	MH-97-S	9	9.620	2.470	302.0	6.2862	48.7659	FLOOD
15 minute winter	MH-98-S	10	9.600	2.420	229.3	6.1587	0.0000	FLOOD RISK
60 minute winter	MH-104-S	25	9.410	1.910	242.5	2.1602	182.2099	FLOOD
15 minute winter	MH-99-S	8	9.430	1.880	166.5	2.1263	5.2292	FLOOD
120 minute winter	MH-103-S	48	9.360	1.630	89.5	1.8435	130.9984	FLOOD
15 minute winter	MH-107-S	7	9.540	1.490	137.2	1.6852	18.2854	FLOOD
120 minute winter	MH-109-S	48	9.390	1.190	63.2	1.3459	114.2019	FLOOD
15 minute winter	MH-108-S	7	9.690	1.570	97.2	1.7757	15.8779	FLOOD
15 minute winter	MH-102-S	10	9.433	1.863	97.2	2.1075	0.0000	FLOOD RISK
120 minute winter	MH-106-S	48	9.310	1.570	85.5	1.7757	138.9297	FLOOD
60 minute summer	MH-110-S	26	9.321	1.571	37.2	1.7764	0.0000	FLOOD RISK
120 minute winter	MH-111-S	48	9.310	1.550	31.8	1.7531	46.9208	FLOOD
120 minute winter	MH-112-S	48	9.310	1.540	29.7	1.7417	30.5063	FLOOD
120 minute winter	MH-113-S	48	9.310	1.490	44.0	1.6852	83.3931	FLOOD
15 minute winter	MH-114-S	10	9.450	1.360	54.0	1.5382	0.0577	FLOOD
30 minute winter	MH-115-S	12	9.400	1.080	50.2	1.2215	24.2056	FLOOD
15 minute summer	MH-66-S	9	9.880	3.080	92.5	3.4835	0.5333	FLOOD
15 minute winter	MH-70-S	9	9.780	3.120	282.2	7.9404	29.8179	FLOOD
30 minute winter	MH-71-S	14	9.850	2.810	145.4	3.1781	38.5714	FLOOD
15 minute winter	MH-75-S	9	10.000	2.830	97.2	3.2007	4.5999	FLOOD
15 minute winter	MH-72-S	9	9.900	2.950	169.2	3.3365	6.4108	FLOOD
30 minute winter	MH-73-S	14	10.010	2.750	119.3	3.1103	17.4101	FLOOD
15 minute winter	MH-74-S	8	10.050	2.600	115.1	2.9406	22.0136	FLOOD
30 minute winter	MH-101-S	12	9.410	1.430	86.4	1.6173	44.2659	FLOOD

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m ³)	Discharge Vol (m ³)
15 minute winter	MH-97-S	PN50-S	MH-96-S	218.4	1.379	1.673	4.7710	
15 minute winter	MH-98-S	PN51-S	MH-97-S	198.6	1.253	1.428	2.5288	
60 minute winter	MH-104-S	PN52-S	MH-98-S	-176.7	-1.602	-0.561	1.4334	
15 minute winter	MH-99-S	PN53-S	MH-104-S	155.1	1.530	1.612	2.3484	
120 minute winter	MH-103-S	PN54-S	MH-99-S	54.0	1.358	1.084	0.7777	
15 minute winter	MH-107-S	PN55-S	MH-103-S	52.4	1.319	0.829	0.8631	
120 minute winter	MH-109-S	PN56-S	MH-107-S	-26.2	0.708	-0.744	1.2891	
15 minute winter	MH-108-S	PN57-S	MH-107-S	40.0	1.006	1.310	0.7961	
15 minute winter	MH-102-S	PN58-S	MH-99-S	74.7	1.061	1.276	0.4998	
120 minute winter	MH-106-S	PN59-S	MH-102-S	-59.6	-0.846	-0.652	1.7660	
60 minute summer	MH-110-S	PN60-S	MH-106-S	38.4	0.882	1.071	0.6543	
120 minute winter	MH-111-S	PN61-S	MH-110-S	32.5	0.596	1.019	0.8251	
120 minute winter	MH-112-S	PN62-S	MH-111-S	27.6	0.452	0.800	0.7055	
120 minute winter	MH-113-S	PN63-S	MH-112-S	23.2	0.392	0.318	0.8088	
15 minute winter	MH-114-S	PN64-S	MH-113-S	38.5	0.968	0.640	0.8037	
30 minute winter	MH-115-S	PN65-S	MH-114-S	12.3	0.683	0.369	2.2018	
15 minute summer	MH-66-S	PN66-S	MH-3-S	90.4	0.944	0.812	8.5343	
15 minute winter	MH-70-S	PN67-S	MH-2-S	253.9	1.175	1.063	14.0767	
30 minute winter	MH-71-S	PN68-S	MH-70-S	83.5	1.186	0.592	1.6627	
15 minute winter	MH-75-S	PN69-S	MH-71-S	70.0	0.994	0.963	2.1223	
15 minute winter	MH-72-S	PN70-S	MH-70-S	132.2	1.199	0.529	2.0585	
30 minute winter	MH-73-S	PN71-S	MH-72-S	92.4	1.016	0.709	8.0104	
15 minute winter	MH-74-S	PN72-S	MH-73-S	47.2	0.722	0.466	8.0582	
30 minute winter	MH-101-S	PN73-S	MH-102-S	20.5	0.612	0.342	1.2320	