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)
MH-62-S	0.001	5.00	9.550	1200	464692.630	444198.685	2.960
MH-61-S	0.081	5.00	9.500	1200	464667.917	444202.162	2.740
MH-63-S	0.001	5.00	9.550	1200	464669.397	444211.094	2.720
MH-81-S	0.015	5.00	9.780	1200	464903.004	444276.634	1.980
MH-83-S	0.015	5.00	9.900	1200	464917.887	444257.731	1.900
MH-86-S	0.015	5.00	11.040	1200	464940.891	444271.401	2.840
MH-99-S	0.000		9.430	1200	464773.542	444294.373	1.880
MH-103-S	0.017	5.00	9.360	1200	464755.234	444287.502	1.630
MH-107-S	0.017	5.00	9.540	1200	464742.590	444305.140	1.490
MH-108-S	0.017	5.00	9.690	1200	464730.928	444321.408	1.570
MH-102-S	0.017	5.00	9.480	1200	464777.922	444299.958	1.910
MH-106-S	0.011	5.00	9.310	1200	464789.990	444321.941	1.570
MH-110-S	0.011	5.00	9.340	1200	464798.192	444326.305	1.590
MH-111-S	0.011	5.00	9.310	1200	464807.297	444333.680	1.550
MH-73-S	0.019	5.00	10.010	1200	464860.907	444213.949	2.750
MH-74-S	0.019	5.00	10.050	1200	464920.881	444255.671	2.600
MH-101-S	0.017	5.00	9.410	1200	464759.232	444324.663	1.430
Soakaway 1	0.000		9.450	1200	464778.879	444296.954	1.940
Soakaway 2	0.000		9.600	1200	464898.764	444289.746	1.895
Soakaway 3	0.000		10.100	1200	464858.771	444220.500	2.890
Soakaway 4	0.000		9.420	1200	464773.325	444319.784	1.770
Outfall	0.000		7.520	3000	464501.429	444085.722	2.100
MH-95-S	0.000		7.600	1800	464573.916	444075.582	2.100
MH-94-S	0.071	5.00	7.460	1800	464623.381	444070.496	1.910
Tank	0.000		7.300	3000	464655.711	444062.830	1.710
MH-5-S	0.071	5.00	7.100	1800	464660.591	444067.304	1.500
MH-6-S	0.045	5.00	9.050	1800	464671.360	444116.393	3.300
MH-58-S	0.045	5.00	8.300	1800	464658.903	444128.097	2.400
MH-57-S	0.045	5.00	8.170	1800	464625.620	444126.193	2.160
MH-59-S	0.100	5.00	8.650	1200	464619.260	444174.351	2.450
MH-56-S	0.050	5.00	7.900	1800	464569.326	444120.177	1.810
MH-54-S	0.050	5.00	7.650	1800	464527.120	444132.737	1.480
MH-55-S	0.050	5.00	8.400	1800	464457.216	444149.164	1.160
MH-53-S	0.030	5.00	7.950	1800	464530.711	444147.088	1.750
MH-52-S	0.030	5.00	7.900	1800	464515.893	444149.333	1.580
MH-51-S	0.200	5.00	7.820	1200	464491.892	444208.187	1.220
MH-39-S	0.070	5.00	8.150	1200	464531.563	444237.388	1.420
MH-40-S	0.240	5.00	8.650	1200	464552.698	444252.945	1.850
MH-41-S	0.240	5.00	9.150	1200	464608.372	444243.864	2.300

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
MH-42-S	0.170	5.00	9.330	1200	464612.710	444289.766	2.380
MH-44-S	0.100	5.00	9.280	1200	464578.893	444291.878	2.180
MH-43-S	0.170	5.00	9.570	1200	464638.129	444238.982	2.540
MH-4-S	0.045	5.00	9.810	1800	464734.983	444165.585	3.510
MH-60-S	0.000		9.560	1200	464712.648	444195.868	3.110
MH-65-S	0.020	5.00	8.730	1200	464662.949	444172.164	1.730
MH-3-S	0.000	5.00	9.800	1800	464746.568	444172.913	3.400

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)
PN28-S	MH-61-S	MH-62-S	24.956	0.600	6.760	6.590	0.170	146.8	225	5.96	50.0
PN29-S	MH-63-S	MH-61-S	9.054	0.600	6.830	6.760	0.070	129.3	225	5.13	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
PN54-S	MH-103-S	MH-99-S	19.555	0.600	7.730	7.550	0.180	108.6	225	5.92	50.0
PN55-S	MH-107-S	MH-103-S	21.702	0.600	8.050	7.730	0.320	67.8	225	5.66	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	5.49	50.0
PN60-S	MH-110-S	MH-106-S	9.291	0.600	7.750	7.740	0.010	929.1	300	5.74	50.0
PN61-S	MH-111-S	MH-110-S	11.717	0.600	7.760	7.750	0.010	1171.7	300	5.43	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
PN75-S	MH-99-S	Soakaway 1	5.928	0.600	7.550	7.510	0.040	148.2	375	5.99	50.0
PN76-S	MH-81-S	Soakaway 2	13.780	0.600	7.800	7.705	0.095	145.1	300	5.78	50.0
PN77-S	MH-73-S	Soakaway 3	6.890	0.600	7.260	7.210	0.050	137.8	375	6.40	50.0
PN78-S	MH-106-S	Soakaway 4	16.804	0.600	7.740	7.650	0.090	186.7	225	6.03	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)
PN28-S	1.077	42.8	19.4	2.515	2.735	0.102	0.0	106	1.050
PN29-S	1.148	45.6	0.2	2.495	2.515	0.001	0.0	11	0.284
PN47-S	1.432	101.2	5.7	1.600	1.680	0.030	0.0	48	0.780
PN48-S	1.357	95.9	2.8	2.540	1.600	0.015	0.0	35	0.614
PN54-S	1.254	49.8	9.7	1.405	1.655	0.051	0.0	67	0.977
PN55-S	1.590	63.2	6.5	1.265	1.405	0.034	0.0	48	1.025
PN57-S	0.768	30.5	3.2	1.345	1.265	0.017	0.0	50	0.504
PN58-S	0.829	58.6	6.5	1.610	1.580	0.034	0.0	67	0.550
PN60-S	0.508	35.9	4.2	1.290	1.270	0.022	0.0	69	0.341
PN61-S	0.451	31.9	2.1	1.250	1.290	0.011	0.0	52	0.255
PN72-S	0.918	101.4	3.6	2.225	2.375	0.019	0.0	48	0.437
PN73-S	1.506	59.9	3.2	1.205	1.685	0.017	0.0	36	0.812
PN75-S	1.486	164.1	16.1	1.505	1.565	0.085	0.0	79	0.957
PN76-S	1.303	92.1	8.5	1.680	1.595	0.045	0.0	61	0.822
PN77-S	1.541	170.2	7.2	2.375	2.515	0.038	0.0	52	0.779
PN78-S	0.953	37.9	6.3	1.345	1.545	0.033	0.0	62	0.710

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	16.34	50.0
PN02-S	MH-94-S	MH-95-S	49.726	0.600	5.550	5.500	0.050	994.5	900	15.16	50.0
PN03-S	Tank	MH-94-S	33.226	0.600	5.590	5.550	0.040	830.7	900	14.32	50.0
PN04-S	MH-5-S	Tank	6.621	0.600	5.600	5.590	0.010	662.1	600	13.80	50.0
PN05-S	MH-6-S	MH-5-S	50.256	0.600	5.750	5.600	0.150	335.0	600	13.68	50.0
PN06-S	MH-58-S	MH-6-S	17.093	0.600	5.900	5.750	0.150	114.0	600	13.05	50.0
PN07-S	MH-57-S	MH-58-S	33.337	0.600	6.010	5.900	0.110	303.1	600	12.93	50.0
PN08-S	MH-59-S	MH-57-S	48.576	0.600	6.200	6.010	0.190	255.7	600	5.53	50.0
PN09-S	MH-56-S	MH-57-S	56.615	0.600	6.090	6.010	0.080	707.7	600	12.53	50.0
PN10-S	MH-54-S	MH-56-S	44.035	0.600	6.170	6.090	0.080	550.4	525	11.49	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	10.71	50.0
PN13-S	MH-52-S	MH-53-S	14.987	0.600	6.320	6.200	0.120	124.9	450	10.44	50.0
PN14-S	MH-51-S	MH-52-S	63.560	0.600	6.600	6.320	0.280	227.0	450	10.31	50.0
PN15-S	MH-39-S	MH-51-S	49.259	0.600	6.730	6.600	0.130	378.9	375	9.52	50.0
PN16-S	MH-40-S	MH-39-S	26.243	0.600	6.800	6.730	0.070	374.9	375	8.63	50.0
PN17-S	MH-41-S	MH-40-S	56.410	0.600	6.850	6.800	0.050	1128.2	375	8.16	50.0
PN18-S	MH-42-S	MH-41-S	46.107	0.600	6.950	6.850	0.100	461.1	375	6.39	50.0
PN19-S	MH-44-S	MH-42-S	33.883	0.600	7.100	6.950	0.150	225.9	375	5.47	50.0
PN23-S	MH-43-S	MH-41-S	30.155	0.600	7.030	6.850	0.180	167.5	300	5.41	50.0
PN24-S	MH-4-S	MH-6-S	80.422	0.600	6.300	5.750	0.550	146.2	600	7.66	50.0
PN25-S	MH-60-S	MH-4-S	37.629	0.600	6.450	6.300	0.150	250.9	300	6.99	50.0
PN27-S	MH-62-S	MH-60-S	20.215	0.600	6.590	6.450	0.140	144.4	150	6.36	50.0
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

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	365.2	1.200	1.200	1.925	0.0	481	1.054
PN02-S	0.985	626.6	365.2	1.010	1.200	1.925	0.0	494	1.021
PN03-S	1.079	686.3	351.8	0.810	1.010	1.854	0.0	457	1.085
PN04-S	0.939	265.4	351.8	0.900	1.110	1.854	0.0	600	0.947
PN05-S	1.324	374.5	338.3	2.700	0.900	1.783	0.0	449	1.489
PN06-S	2.280	644.7	301.7	1.800	2.700	1.590	0.0	289	2.245
PN07-S	1.393	393.9	293.1	1.560	1.800	1.545	0.0	387	1.520
PN08-S	1.518	429.2	19.0	1.850	1.560	0.100	0.0	85	0.779
PN09-S	0.908	256.6	265.6	1.210	1.560	1.400	0.0	519	1.022
PN10-S	0.947	205.1	256.1	0.955	1.285	1.350	0.0	525	0.956
PN11-S	2.484	395.1	9.5	0.710	1.030	0.050	0.0	47	1.057
PN12-S	0.909	144.5	237.2	1.300	1.030	1.250	0.0	450	0.920
PN13-S	1.818	289.1	231.5	1.130	1.300	1.220	0.0	306	2.010
PN14-S	1.345	213.9	225.8	0.770	1.130	1.190	0.0	402	1.506
PN15-S	0.925	102.1	187.8	1.045	0.845	0.990	0.0	375	0.936
PN16-S	0.930	102.7	174.6	1.475	1.045	0.920	0.0	375	0.942
PN17-S	0.531	58.6	129.0	1.925	1.475	0.680	0.0	375	0.538
PN18-S	0.837	92.4	51.2	2.005	1.925	0.270	0.0	200	0.858
PN19-S	1.201	132.7	19.0	1.805	2.005	0.100	0.0	95	0.858
PN23-S	1.212	85.6	32.3	2.240	2.000	0.170	0.0	127	1.129
PN24-S	2.011	568.7	28.1	2.910	2.700	0.148	0.0	89	1.068
PN25-S	0.988	69.8	19.5	2.810	3.210	0.103	0.0	108	0.850
PN27-S	0.834	14.7	19.5	2.810	2.960	0.103	0.0	150	0.850
PN30-S	0.891	15.7	3.8	1.580	2.590	0.020	0.0	50	0.734

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)
PN31-S	MH-3-S	MH-4-S	13.708	0.600	6.400	6.300	0.100	137.1	600	5.11	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)
PN31-S	2.078	587.5	0.0	2.800	2.910	0.000	0.0	0	0.000

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)
PN28-S	24.956	146.8	225	Circular	9.500	6.760	2.515	9.550	6.590	2.735
PN29-S	9.054	129.3	225	Circular	9.550	6.830	2.495	9.500	6.760	2.515
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
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
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
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
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
PN75-S	5.928	148.2	375	Circular	9.430	7.550	1.505	9.450	7.510	1.565
PN76-S	13.780	145.1	300	Circular	9.780	7.800	1.680	9.600	7.705	1.595
PN77-S	6.890	137.8	375	Circular	10.010	7.260	2.375	10.100	7.210	2.515
PN78-S	16.804	186.7	225	Circular	9.310	7.740	1.345	9.420	7.650	1.545
PN01-S	73.193	914.9	900	Circular	7.600	5.500	1.200	7.520	5.420	1.200

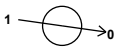
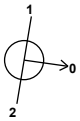
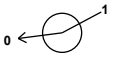
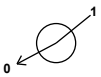
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
PN28-S	MH-61-S	1200	Manhole	Adoptable	MH-62-S	1200	Manhole	Adoptable
PN29-S	MH-63-S	1200	Manhole	Adoptable	MH-61-S	1200	Manhole	Adoptable
PN47-S	MH-83-S	1200	Manhole	Adoptable	MH-81-S	1200	Manhole	Adoptable
PN48-S	MH-86-S	1200	Manhole	Adoptable	MH-83-S	1200	Manhole	Adoptable
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
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
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
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
PN75-S	MH-99-S	1200	Manhole	Adoptable	Soakaway 1	1200	Manhole	Adoptable
PN76-S	MH-81-S	1200	Manhole	Adoptable	Soakaway 2	1200	Manhole	Adoptable
PN77-S	MH-73-S	1200	Manhole	Adoptable	Soakaway 3	1200	Manhole	Adoptable
PN78-S	MH-106-S	1200	Manhole	Adoptable	Soakaway 4	1200	Manhole	Adoptable
PN01-S	MH-95-S	1800	Manhole	Adoptable	Outfall	3000	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)
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	600	Circular	8.650	6.200	1.850	8.170	6.010	1.560
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	450	Circular	7.820	6.600	0.770	7.900	6.320	1.130
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	375	Circular	9.330	6.950	2.005	9.150	6.850	1.925
PN19-S	33.883	225.9	375	Circular	9.280	7.100	1.805	9.330	6.950	2.005
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
PN27-S	20.215	144.4	150	Circular	9.550	6.590	2.810	9.560	6.450	2.960
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

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
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-57-S	1800	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-54-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
PN23-S	MH-43-S	1200	Manhole	Adoptable	MH-41-S	1200	Manhole	Adoptable
PN24-S	MH-4-S	1800	Manhole	Adoptable	MH-6-S	1800	Manhole	Adoptable
PN25-S	MH-60-S	1200	Manhole	Adoptable	MH-4-S	1800	Manhole	Adoptable
PN27-S	MH-62-S	1200	Manhole	Adoptable	MH-60-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

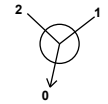
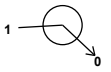
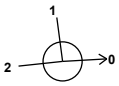
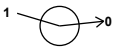
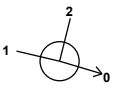
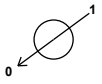
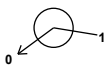
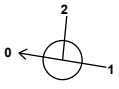
Manhole Schedule

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			
						0	PN27-S	6.590	150
MH-61-S	464667.917	444202.162	9.500	2.740	1200	 1	PN29-S	6.760	225
						2	PN30-S	6.760	150
						0	PN28-S	6.760	225
MH-63-S	464669.397	444211.094	9.550	2.720	1200				
						0	PN29-S	6.830	225
MH-81-S	464903.004	444276.634	9.780	1.980	1200	 1	PN47-S	7.800	300
						0	PN76-S	7.800	300
MH-83-S	464917.887	444257.731	9.900	1.900	1200	 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	PN48-S	8.200	300
MH-99-S	464773.542	444294.373	9.430	1.880	1200	 1	PN58-S	7.550	300
						2	PN54-S	7.550	225
						0	PN75-S	7.550	375
MH-103-S	464755.234	444287.502	9.360	1.630	1200	 1	PN55-S	7.730	225
						0	PN54-S	7.730	225
MH-107-S	464742.590	444305.140	9.540	1.490	1200	 1	PN57-S	8.050	225
						0	PN55-S	8.050	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	225
						0	PN58-S	7.570	300
MH-106-S	464789.990	444321.941	9.310	1.570	1200	 1	PN60-S	7.740	300
						0	PN78-S	7.740	225
MH-110-S	464798.192	444326.305	9.340	1.590	1200	 1	PN61-S	7.750	300
						0	PN60-S	7.750	300

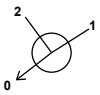
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH-111-S	464807.297	444333.680	9.310	1.550	1200	0	PN61-S	7.760	300
MH-73-S	464860.907	444213.949	10.010	2.750	1200	1	PN72-S	7.260	375
						0	PN77-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
Soakaway 1	464778.879	444296.954	9.450	1.940	1200	1	PN75-S	7.510	375
Soakaway 2	464898.764	444289.746	9.600	1.895	1200	1	PN76-S	7.705	300
Soakaway 3	464858.771	444220.500	10.100	2.890	1200	1	PN77-S	7.210	375
Soakaway 4	464773.325	444319.784	9.420	1.770	1200	1	PN78-S	7.650	225
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
						0	PN01-S	5.500	900
MH-94-S	464623.381	444070.496	7.460	1.910	1800	1	PN03-S	5.550	900
						0	PN02-S	5.550	900
Tank	464655.711	444062.830	7.300	1.710	3000	1	PN04-S	5.590	600
						0	PN03-S	5.590	900
MH-5-S	464660.591	444067.304	7.100	1.500	1800	1	PN05-S	5.600	600
						0	PN04-S	5.600	600

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH-6-S	464671.360	444116.393	9.050	3.300	1800		1 PN24-S 2 PN06-S 0 PN05-S	5.750 5.750 5.750	600 600 600
MH-58-S	464658.903	444128.097	8.300	2.400	1800		1 PN07-S 0 PN06-S	5.900 5.900	600 600
MH-57-S	464625.620	444126.193	8.170	2.160	1800		1 PN08-S 2 PN09-S 0 PN07-S	6.010 6.010 6.010	600 600 600
MH-59-S	464619.260	444174.351	8.650	2.450	1200		0 PN08-S	6.200	600
MH-56-S	464569.326	444120.177	7.900	1.810	1800		1 PN10-S 0 PN09-S	6.090 6.090	525 600
MH-54-S	464527.120	444132.737	7.650	1.480	1800		1 PN11-S 2 PN12-S 0 PN10-S	6.170 6.170 6.170	450 450 525
MH-55-S	464457.216	444149.164	8.400	1.160	1800		0 PN11-S	7.240	450
MH-53-S	464530.711	444147.088	7.950	1.750	1800		1 PN13-S 0 PN12-S	6.200 6.200	450 450
MH-52-S	464515.893	444149.333	7.900	1.580	1800		1 PN14-S 0 PN13-S	6.320 6.320	450 450
MH-51-S	464491.892	444208.187	7.820	1.220	1200		1 PN15-S 0 PN14-S	6.600 6.600	375 450
MH-39-S	464531.563	444237.388	8.150	1.420	1200		1 PN16-S 0 PN15-S	6.730 6.730	375 375
MH-40-S	464552.698	444252.945	8.650	1.850	1200		1 PN17-S 0 PN16-S	6.800 6.800	375 375
MH-41-S	464608.372	444243.864	9.150	2.300	1200		1 PN23-S 2 PN18-S 0 PN17-S	6.850 6.850 6.850	300 375 375

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
MH-42-S	464612.710	444289.766	9.330	2.380	1200	1	PN19-S	6.950	375
									
						0	PN18-S	6.950	375
MH-44-S	464578.893	444291.878	9.280	2.180	1200				
						0	PN19-S	7.100	375
MH-43-S	464638.129	444238.982	9.570	2.540	1200				
						0	PN23-S	7.030	300
MH-4-S	464734.983	444165.585	9.810	3.510	1800	1	PN31-S	6.300	600
							2	PN25-S	6.300	300
						0	PN24-S	6.300	600
MH-60-S	464712.648	444195.868	9.560	3.110	1200	1	PN27-S	6.450	150
									
						0	PN25-S	6.450	300
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				
						0	PN31-S	6.400	600

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 (m³/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
100	40	0	0

Node MH-95-S Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	5.500	Product Number	CTL-SHE-0552-2375-2100-2375
Design Depth (m)	2.100	Min Outlet Diameter (m)	
Design Flow (l/s)	237.5	Min Node Diameter (mm)	

Node MH-41-S Offline Weir Control

Flap Valve	x	Invert Level (m)	8.000	Discharge Coefficient	0.590
Loop to Node	MH-59-S	Width (m)	1.200		

Node Soakaway 1 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00010	Invert Level (m)	7.510	Depth (m)	
Side Inf Coefficient (m/hr)	0.00010	Time to half empty (mins)	650999	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	5.600	Number Required	1
Porosity	1.00	Pit Length (m)	7.500		

Node Soakaway 2 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00010	Invert Level (m)	7.705	Depth (m)	
Side Inf Coefficient (m/hr)	0.00010	Time to half empty (mins)	532406	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	6.000	Number Required	1
Porosity	1.00	Pit Length (m)	3.000		

Node Soakaway 3 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00010	Invert Level (m)	7.210	Depth (m)	
Side Inf Coefficient (m/hr)	0.00010	Time to half empty (mins)	392424	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	7.000	Number Required	1
Porosity	1.00	Pit Length (m)	1.000		

Node Soakaway 4 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00010	Invert Level (m)	7.650	Depth (m)	
Side Inf Coefficient (m/hr)	0.00010	Time to half empty (mins)	501914	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	5.500	Number Required	1
Porosity	1.00	Pit Length (m)	3.000		

Node MH-42-S Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	6.950
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	6

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	0.0	0.0	0.501	80.0	0.0	1.702	0.0	0.0
0.500	0.0	0.0	1.700	80.0	0.0			

Node Tank Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	5.590
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	21

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	0.0	0.0	0.200	0.0	0.0	0.201	237.0	0.0

Node MH-53-S Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	6.200
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	16

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	0.0	0.0	0.201	130.0	0.0	1.002	0.0	0.0
0.200	0.0	0.0	1.001	130.0	0.0			

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH-62-S	11	6.712	0.122	14.0	0.1379	0.0000	OK
15 minute winter	MH-61-S	10	6.849	0.089	14.3	0.1005	0.0000	OK
15 minute winter	MH-63-S	10	6.849	0.019	0.4	0.0210	0.0000	OK
1440 minute winter	MH-81-S	1110	8.079	0.279	0.3	0.3151	0.0000	OK
1440 minute winter	MH-83-S	1410	8.079	0.079	0.2	0.0890	0.0000	OK
15 minute winter	MH-86-S	10	8.230	0.030	2.1	0.0342	0.0000	OK
480 minute winter	MH-99-S	504	7.851	0.301	1.4	0.3406	0.0000	OK
480 minute winter	MH-103-S	592	7.851	0.121	0.9	0.1372	0.0000	OK
15 minute winter	MH-107-S	11	8.091	0.041	4.8	0.0467	0.0000	OK
15 minute winter	MH-108-S	10	8.163	0.043	2.4	0.0488	0.0000	OK
480 minute winter	MH-102-S	496	7.851	0.281	0.6	0.3180	0.0000	OK
1440 minute winter	MH-106-S	1230	7.945	0.205	0.3	0.2322	0.0000	OK
1440 minute winter	MH-110-S	1230	7.945	0.195	0.2	0.2209	0.0000	OK
1440 minute winter	MH-111-S	1260	7.945	0.185	0.1	0.2096	0.0000	OK
480 minute winter	MH-73-S	472	7.549	0.289	0.6	0.3274	0.0000	OK
480 minute winter	MH-74-S	456	7.550	0.100	0.3	0.1126	0.0000	OK
15 minute winter	MH-101-S	10	8.010	0.030	2.4	0.0344	0.0000	OK
480 minute winter	Soakaway 1	520	7.851	0.341	1.2	14.7147	0.0000	OK
1440 minute winter	Soakaway 2	1260	8.079	0.374	0.3	7.1479	0.0000	OK
480 minute winter	Soakaway 3	472	7.549	0.339	0.3	2.7602	0.0000	OK
1440 minute winter	Soakaway 4	1080	7.945	0.295	0.3	5.2058	0.0000	OK
60 minute winter	Outfall	51	5.574	0.154	74.1	0.0000	0.0000	OK
60 minute winter	MH-95-S	50	5.954	0.454	74.4	1.1543	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH-62-S	PN27-S	MH-60-S	14.0	1.039	0.951	0.2708	
15 minute winter	MH-61-S	PN28-S	MH-62-S	13.9	0.796	0.326	0.4520	
15 minute winter	MH-63-S	PN29-S	MH-61-S	-0.3	-0.049	-0.007	0.0729	
1440 minute winter	MH-81-S	PN76-S	Soakaway 2	0.3	0.331	0.003	0.9552	
1440 minute winter	MH-83-S	PN47-S	MH-81-S	0.2	0.238	0.002	0.9977	
15 minute winter	MH-86-S	PN48-S	MH-83-S	2.0	0.443	0.021	0.1255	
480 minute winter	MH-99-S	PN75-S	Soakaway 1	1.2	0.564	0.007	0.5934	
480 minute winter	MH-103-S	PN54-S	MH-99-S	0.9	0.298	0.018	0.6023	
15 minute winter	MH-107-S	PN55-S	MH-103-S	4.7	0.733	0.074	0.1401	
15 minute winter	MH-108-S	PN57-S	MH-107-S	2.4	0.459	0.077	0.1027	
480 minute winter	MH-102-S	PN58-S	MH-99-S	0.5	0.170	0.008	0.4933	
1440 minute winter	MH-106-S	PN78-S	Soakaway 4	0.3	0.324	0.008	0.6536	
1440 minute winter	MH-110-S	PN60-S	MH-106-S	0.2	0.146	0.006	0.4642	
1440 minute winter	MH-111-S	PN61-S	MH-110-S	0.1	0.082	0.003	0.5522	
480 minute winter	MH-73-S	PN77-S	Soakaway 3	0.3	0.313	0.001	0.6761	
480 minute winter	MH-74-S	PN72-S	MH-73-S	0.3	0.140	0.003	4.1860	
15 minute winter	MH-101-S	PN73-S	MH-102-S	2.4	0.401	0.039	0.1903	
480 minute winter	Soakaway 1	Infiltration		0.0				
1440 minute winter	Soakaway 2	Infiltration		0.0				
480 minute winter	Soakaway 3	Infiltration		0.0				
1440 minute winter	Soakaway 4	Infiltration		0.0				
60 minute winter	MH-95-S	PN01-S	Outfall	74.1	0.829	0.113	6.5757	206.8

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH-94-S	50	5.957	0.407	75.9	1.0358	0.0000	OK
60 minute winter	Tank	50	5.960	0.370	108.0	42.8952	0.0000	OK
60 minute winter	MH-5-S	49	5.966	0.366	110.6	0.9308	0.0000	OK
30 minute winter	MH-6-S	24	6.004	0.254	128.6	0.6455	0.0000	OK
30 minute winter	MH-58-S	24	6.101	0.201	116.4	0.5106	0.0000	OK
15 minute winter	MH-57-S	16	6.238	0.228	115.7	0.5808	0.0000	OK
15 minute winter	MH-59-S	10	6.272	0.072	14.1	0.0815	0.0000	OK
15 minute winter	MH-56-S	16	6.366	0.276	110.7	0.7022	0.0000	OK
15 minute winter	MH-54-S	16	6.456	0.286	110.6	0.7279	0.0000	OK
15 minute winter	MH-55-S	11	7.281	0.041	7.1	0.1034	0.0000	OK
15 minute winter	MH-53-S	15	6.510	0.310	137.2	14.2731	0.0000	OK
15 minute winter	MH-52-S	13	6.580	0.260	136.8	0.6607	0.0000	OK
15 minute winter	MH-51-S	12	6.866	0.266	132.5	0.3012	0.0000	OK
15 minute winter	MH-39-S	12	7.063	0.333	110.9	0.3762	0.0000	OK
15 minute winter	MH-40-S	12	7.143	0.343	105.5	0.3884	0.0000	OK
15 minute winter	MH-41-S	12	7.221	0.371	79.5	0.4198	0.0000	OK
15 minute winter	MH-42-S	12	7.236	0.286	37.1	0.3238	0.0000	OK
15 minute winter	MH-44-S	12	7.239	0.139	14.1	0.1576	0.0000	OK
15 minute winter	MH-43-S	11	7.224	0.194	24.0	0.2199	0.0000	OK
15 minute winter	MH-4-S	12	6.374	0.074	19.7	0.1875	0.0000	OK
15 minute winter	MH-60-S	11	6.543	0.093	14.0	0.1051	0.0000	OK
15 minute winter	MH-65-S	10	7.042	0.042	2.8	0.0478	0.0000	OK
15 minute summer	MH-3-S	1	6.400	0.000	0.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH-94-S	PN02-S	MH-95-S	74.4	0.289	0.119	14.8803	
60 minute winter	Tank	PN03-S	MH-94-S	74.4	0.483	0.108	8.7100	
60 minute winter	MH-5-S	PN04-S	Tank	108.0	0.792	0.407	1.1995	
30 minute winter	MH-6-S	PN05-S	MH-5-S	127.9	0.988	0.342	6.9936	
30 minute winter	MH-58-S	PN06-S	MH-6-S	116.3	1.191	0.180	1.6727	
15 minute winter	MH-57-S	PN07-S	MH-58-S	115.2	1.277	0.292	3.0125	
15 minute winter	MH-59-S	PN08-S	MH-57-S	13.6	0.536	0.032	2.5887	
15 minute winter	MH-56-S	PN09-S	MH-57-S	110.9	0.988	0.432	6.3630	
15 minute winter	MH-54-S	PN10-S	MH-56-S	109.5	0.932	0.534	5.1777	
15 minute winter	MH-55-S	PN11-S	MH-54-S	6.8	0.396	0.017	3.9457	
15 minute winter	MH-53-S	PN12-S	MH-54-S	105.9	0.952	0.733	1.6448	
15 minute winter	MH-52-S	PN13-S	MH-53-S	133.9	1.421	0.463	1.5340	
15 minute winter	MH-51-S	PN14-S	MH-52-S	133.5	1.392	0.624	6.0971	
15 minute winter	MH-39-S	PN15-S	MH-51-S	109.9	1.169	1.076	4.6079	
15 minute winter	MH-40-S	PN16-S	MH-39-S	101.6	0.981	0.989	2.7445	
15 minute winter	MH-41-S	PN17-S	MH-40-S	73.7	0.697	1.257	6.0888	
15 minute winter	MH-41-S	Weir	MH-59-S	0.0				0.0
15 minute winter	MH-42-S	PN18-S	MH-41-S	32.7	0.398	0.354	4.6192	
15 minute winter	MH-44-S	PN19-S	MH-42-S	13.1	0.410	0.099	2.1605	
15 minute winter	MH-43-S	PN23-S	MH-41-S	21.3	0.483	0.249	1.7900	
15 minute winter	MH-4-S	PN24-S	MH-6-S	18.9	0.494	0.033	5.0554	
15 minute winter	MH-60-S	PN25-S	MH-4-S	13.9	0.874	0.199	0.5993	
15 minute winter	MH-65-S	PN30-S	MH-61-S	2.7	0.375	0.174	0.2271	
15 minute summer	MH-3-S	PN31-S	MH-4-S	0.0	0.000	0.000	0.1308	

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH-62-S	12	6.932	0.342	24.6	0.3872	0.0000	SURCHARGED
15 minute winter	MH-61-S	12	6.984	0.224	27.5	0.2534	0.0000	OK
15 minute winter	MH-63-S	12	6.984	0.154	2.8	0.1739	0.0000	OK
720 minute winter	MH-81-S	705	8.347	0.547	0.9	0.6187	0.0000	SURCHARGED
720 minute winter	MH-83-S	765	8.347	0.347	0.6	0.3925	0.0000	SURCHARGED
720 minute winter	MH-86-S	825	8.347	0.147	0.3	0.1664	0.0000	OK
960 minute winter	MH-99-S	885	8.208	0.658	1.3	0.7440	0.0000	SURCHARGED
960 minute winter	MH-103-S	900	8.205	0.475	0.9	0.5373	0.0000	SURCHARGED
960 minute winter	MH-107-S	900	8.205	0.155	0.6	0.1756	0.0000	OK
960 minute winter	MH-108-S	900	8.205	0.085	0.3	0.0964	0.0000	OK
960 minute winter	MH-102-S	930	8.205	0.635	0.7	0.7187	0.0000	SURCHARGED
480 minute winter	MH-106-S	520	8.139	0.399	0.7	0.4508	0.0000	SURCHARGED
480 minute winter	MH-110-S	664	8.139	0.389	0.5	0.4396	0.0000	SURCHARGED
480 minute winter	MH-111-S	464	8.139	0.379	0.3	0.4282	0.0000	SURCHARGED
960 minute winter	MH-73-S	945	7.914	0.654	0.5	0.7398	0.0000	SURCHARGED
960 minute winter	MH-74-S	1050	7.914	0.464	0.4	0.5249	0.0000	SURCHARGED
960 minute winter	MH-101-S	900	8.206	0.226	0.3	0.2553	0.0000	SURCHARGED
960 minute winter	Soakaway 1	915	8.205	0.695	1.3	29.9649	0.0000	OK
600 minute winter	Soakaway 2	600	8.347	0.642	0.9	12.2833	0.0000	OK
960 minute winter	Soakaway 3	930	7.914	0.704	0.3	5.7240	0.0000	OK
480 minute winter	Soakaway 4	496	8.138	0.488	0.6	8.6118	0.0000	OK
60 minute winter	Outfall	50	5.631	0.211	137.6	0.0000	0.0000	OK
60 minute winter	MH-95-S	50	6.133	0.633	137.9	1.6120	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH-62-S	PN27-S	MH-60-S	22.0	1.280	1.496	0.3283	
15 minute winter	MH-61-S	PN28-S	MH-62-S	24.3	0.851	0.567	0.9920	
15 minute winter	MH-63-S	PN29-S	MH-61-S	-2.5	0.170	-0.056	0.3107	
720 minute winter	MH-81-S	PN76-S	Soakaway 2	0.7	0.462	0.008	0.9704	
720 minute winter	MH-83-S	PN47-S	MH-81-S	0.6	0.238	0.006	1.6942	
720 minute winter	MH-86-S	PN48-S	MH-83-S	0.3	0.244	0.003	1.4020	
960 minute winter	MH-99-S	PN75-S	Soakaway 1	1.3	0.567	0.008	0.6538	
960 minute winter	MH-103-S	PN54-S	MH-99-S	0.8	0.298	0.017	0.7777	
960 minute winter	MH-107-S	PN55-S	MH-103-S	0.6	0.354	0.009	0.7486	
960 minute winter	MH-108-S	PN57-S	MH-107-S	0.3	0.248	0.010	0.4302	
960 minute winter	MH-102-S	PN58-S	MH-99-S	0.5	0.170	0.009	0.4998	
480 minute winter	MH-106-S	PN78-S	Soakaway 4	0.6	0.401	0.016	0.6683	
480 minute winter	MH-110-S	PN60-S	MH-106-S	0.4	0.146	0.011	0.6543	
480 minute winter	MH-111-S	PN61-S	MH-110-S	0.2	0.089	0.007	0.8251	
960 minute winter	MH-73-S	PN77-S	Soakaway 3	0.3	0.322	0.002	0.7599	
960 minute winter	MH-74-S	PN72-S	MH-73-S	0.2	0.140	0.002	8.0582	
960 minute winter	MH-101-S	PN73-S	MH-102-S	0.6	0.168	0.009	1.2316	
960 minute winter	Soakaway 1	Infiltration		0.0				
600 minute winter	Soakaway 2	Infiltration		0.0				
960 minute winter	Soakaway 3	Infiltration		0.0				
480 minute winter	Soakaway 4	Infiltration		0.0				
60 minute winter	MH-95-S	PN01-S	Outfall	137.6	1.000	0.211	10.1054	388.0

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH-94-S	49	6.138	0.588	139.9	1.4966	0.0000	OK
60 minute winter	Tank	49	6.142	0.552	190.2	87.2819	0.0000	OK
60 minute winter	MH-5-S	49	6.151	0.551	194.8	1.4016	0.0000	OK
30 minute winter	MH-6-S	31	6.170	0.420	230.1	1.0682	0.0000	OK
30 minute winter	MH-58-S	24	6.191	0.291	200.8	0.7397	0.0000	OK
30 minute winter	MH-57-S	24	6.329	0.319	197.1	0.8120	0.0000	OK
30 minute winter	MH-59-S	23	6.329	0.129	20.8	0.1457	0.0000	OK
30 minute winter	MH-56-S	23	6.463	0.373	184.3	0.9504	0.0000	OK
30 minute winter	MH-54-S	23	6.568	0.398	180.0	1.0140	0.0000	OK
15 minute winter	MH-55-S	10	7.295	0.055	13.6	0.1411	0.0000	OK
30 minute winter	MH-53-S	23	6.640	0.440	198.3	30.6524	0.0000	OK
15 minute winter	MH-52-S	13	6.694	0.374	216.1	0.9531	0.0000	OK
15 minute winter	MH-51-S	11	6.981	0.381	208.9	0.4308	0.0000	OK
15 minute winter	MH-39-S	11	7.338	0.608	158.1	0.6880	0.0000	SURCHARGED
15 minute winter	MH-40-S	11	7.514	0.714	143.2	0.8072	0.0000	SURCHARGED
15 minute winter	MH-41-S	12	7.663	0.813	114.3	0.9200	0.0000	SURCHARGED
15 minute winter	MH-42-S	13	7.708	0.758	125.4	20.4207	0.0000	SURCHARGED
15 minute winter	MH-44-S	9	7.777	0.677	27.3	0.7659	0.0000	SURCHARGED
15 minute winter	MH-43-S	12	7.696	0.666	46.4	0.7527	0.0000	SURCHARGED
15 minute winter	MH-4-S	12	6.395	0.095	32.6	0.2406	0.0000	OK
15 minute winter	MH-60-S	12	6.568	0.118	22.0	0.1336	0.0000	OK
15 minute winter	MH-65-S	10	7.060	0.060	5.5	0.0680	0.0000	OK
15 minute summer	MH-3-S	1	6.400	0.000	0.0	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH-94-S	PN02-S	MH-95-S	137.9	0.326	0.220	22.7685	
60 minute winter	Tank	PN03-S	MH-94-S	137.2	0.538	0.200	14.0680	
60 minute winter	MH-5-S	PN04-S	Tank	190.2	0.907	0.717	1.7948	
30 minute winter	MH-6-S	PN05-S	MH-5-S	224.4	1.137	0.599	12.0712	
30 minute winter	MH-58-S	PN06-S	MH-6-S	200.5	1.254	0.311	2.8763	
30 minute winter	MH-57-S	PN07-S	MH-58-S	197.1	1.372	0.500	4.7923	
30 minute winter	MH-59-S	PN08-S	MH-57-S	20.8	0.475	0.048	4.7612	
30 minute winter	MH-56-S	PN09-S	MH-57-S	184.1	1.094	0.717	9.5184	
30 minute winter	MH-54-S	PN10-S	MH-56-S	179.3	1.056	0.874	7.4890	
15 minute winter	MH-55-S	PN11-S	MH-54-S	13.1	0.450	0.033	5.4930	
30 minute winter	MH-53-S	PN12-S	MH-54-S	169.5	1.103	1.173	2.2629	
15 minute winter	MH-52-S	PN13-S	MH-53-S	210.2	1.736	0.727	2.2178	
15 minute winter	MH-51-S	PN14-S	MH-52-S	208.4	1.541	0.974	8.8963	
15 minute winter	MH-39-S	PN15-S	MH-51-S	158.0	1.433	1.547	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	143.7	1.303	1.399	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	115.8	1.050	1.975	6.2219	
15 minute winter	MH-41-S	Weir	MH-59-S	0.0				0.0
15 minute winter	MH-42-S	PN18-S	MH-41-S	95.3	0.864	1.031	5.0855	
15 minute winter	MH-44-S	PN19-S	MH-42-S	45.0	0.434	0.339	3.7372	
15 minute winter	MH-43-S	PN23-S	MH-41-S	44.8	0.636	0.523	2.1235	
15 minute winter	MH-4-S	PN24-S	MH-6-S	31.9	0.543	0.056	8.0557	
15 minute winter	MH-60-S	PN25-S	MH-4-S	22.0	1.000	0.314	0.8421	
15 minute winter	MH-65-S	PN30-S	MH-61-S	5.4	0.444	0.340	0.3679	
15 minute summer	MH-3-S	PN31-S	MH-4-S	0.0	0.000	0.000	0.1893	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH-62-S	12	7.111	0.521	27.7	0.5892	0.0000	SURCHARGED
15 minute winter	MH-61-S	12	7.194	0.434	34.1	0.4904	0.0000	SURCHARGED
15 minute winter	MH-63-S	12	7.192	0.362	4.6	0.4098	0.0000	SURCHARGED
960 minute winter	MH-81-S	930	8.611	0.811	0.9	0.9178	0.0000	SURCHARGED
960 minute winter	MH-83-S	975	8.612	0.612	0.6	0.6917	0.0000	SURCHARGED
960 minute winter	MH-86-S	975	8.612	0.412	0.3	0.4656	0.0000	SURCHARGED
960 minute winter	MH-99-S	915	8.363	0.813	1.8	0.9195	0.0000	SURCHARGED
960 minute winter	MH-103-S	915	8.358	0.628	1.2	0.7099	0.0000	SURCHARGED
960 minute winter	MH-107-S	915	8.358	0.308	0.8	0.3484	0.0000	SURCHARGED
960 minute winter	MH-108-S	915	8.358	0.238	0.4	0.2690	0.0000	SURCHARGED
960 minute winter	MH-102-S	1020	8.358	0.788	0.8	0.8910	0.0000	SURCHARGED
720 minute winter	MH-106-S	735	8.385	0.645	0.8	0.7295	0.0000	SURCHARGED
720 minute winter	MH-110-S	720	8.385	0.635	0.6	0.7182	0.0000	SURCHARGED
720 minute winter	MH-111-S	750	8.385	0.625	0.3	0.7069	0.0000	SURCHARGED
1440 minute winter	MH-73-S	1350	8.572	1.312	0.6	1.4836	0.0000	SURCHARGED
1440 minute winter	MH-74-S	1350	8.572	1.122	0.4	1.2688	0.0000	SURCHARGED
960 minute winter	MH-101-S	975	8.358	0.378	0.4	0.4273	0.0000	SURCHARGED
960 minute winter	Soakaway 1	930	8.357	0.847	1.7	36.5379	0.0000	OK
960 minute winter	Soakaway 2	945	8.611	0.906	0.7	17.3410	0.0000	OK
1440 minute winter	Soakaway 3	1380	8.572	1.362	0.5	11.0709	0.0000	OK
720 minute winter	Soakaway 4	675	8.385	0.735	0.8	12.9574	0.0000	OK
60 minute winter	Outfall	51	5.660	0.240	174.8	0.0000	0.0000	OK
60 minute winter	MH-95-S	50	6.230	0.730	175.1	1.8566	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH-62-S	PN27-S	MH-60-S	27.2	1.549	1.847	0.3442	
15 minute winter	MH-61-S	PN28-S	MH-62-S	27.4	0.843	0.639	0.9925	
15 minute winter	MH-63-S	PN29-S	MH-61-S	-4.3	-0.180	-0.095	0.3601	
960 minute winter	MH-81-S	PN76-S	Soakaway 2	0.7	0.462	0.008	0.9704	
960 minute winter	MH-83-S	PN47-S	MH-81-S	0.6	0.238	0.006	1.6942	
960 minute winter	MH-86-S	PN48-S	MH-83-S	0.3	0.244	0.003	1.8844	
960 minute winter	MH-99-S	PN75-S	Soakaway 1	1.7	0.567	0.011	0.6538	
960 minute winter	MH-103-S	PN54-S	MH-99-S	1.1	0.298	0.022	0.7777	
960 minute winter	MH-107-S	PN55-S	MH-103-S	0.8	0.354	0.013	0.8631	
960 minute winter	MH-108-S	PN57-S	MH-107-S	0.4	0.271	0.013	0.7961	
960 minute winter	MH-102-S	PN58-S	MH-99-S	0.7	0.170	0.012	0.4998	
720 minute winter	MH-106-S	PN78-S	Soakaway 4	0.8	0.442	0.020	0.6683	
720 minute winter	MH-110-S	PN60-S	MH-106-S	0.5	0.146	0.014	0.6543	
720 minute winter	MH-111-S	PN61-S	MH-110-S	0.3	0.084	0.008	0.8251	
1440 minute winter	MH-73-S	PN77-S	Soakaway 3	0.5	0.179	0.003	0.7599	
1440 minute winter	MH-74-S	PN72-S	MH-73-S	0.3	0.140	0.003	8.0582	
960 minute winter	MH-101-S	PN73-S	MH-102-S	0.4	0.168	0.007	1.2320	
960 minute winter	Soakaway 1	Infiltration		0.0				
960 minute winter	Soakaway 2	Infiltration		0.0				
1440 minute winter	Soakaway 3	Infiltration		0.0				
720 minute winter	Soakaway 4	Infiltration		0.0				
60 minute winter	MH-95-S	PN01-S	Outfall	174.8	1.072	0.267	11.9772	498.2

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH-94-S	50	6.235	0.685	176.5	1.7437	0.0000	OK
60 minute winter	Tank	50	6.240	0.650	234.0	111.1375	0.0000	OK
60 minute winter	MH-5-S	49	6.254	0.654	238.7	1.6640	0.0000	SURCHARGED
60 minute winter	MH-6-S	48	6.290	0.540	240.8	1.3753	0.0000	OK
60 minute winter	MH-58-S	47	6.299	0.399	214.2	1.0162	0.0000	OK
30 minute winter	MH-57-S	23	6.367	0.357	231.8	0.9097	0.0000	OK
30 minute winter	MH-59-S	22	6.366	0.166	26.6	0.1880	0.0000	OK
30 minute winter	MH-56-S	23	6.500	0.410	210.1	1.0429	0.0000	OK
30 minute winter	MH-54-S	23	6.611	0.441	204.3	1.1234	0.0000	OK
15 minute winter	MH-55-S	10	7.302	0.062	17.3	0.1587	0.0000	OK
30 minute winter	MH-53-S	24	6.700	0.500	224.7	38.2410	0.0000	SURCHARGED
30 minute winter	MH-52-S	23	6.790	0.470	222.2	1.1953	0.0000	SURCHARGED
15 minute winter	MH-51-S	12	7.091	0.491	237.9	0.5550	0.0000	SURCHARGED
15 minute winter	MH-39-S	11	7.522	0.792	173.1	0.8952	0.0000	SURCHARGED
15 minute winter	MH-40-S	11	7.722	0.922	153.8	1.0426	0.0000	SURCHARGED
15 minute winter	MH-41-S	13	7.893	1.043	138.7	1.1801	0.0000	SURCHARGED
15 minute winter	MH-42-S	14	7.933	0.983	152.3	37.8170	0.0000	SURCHARGED
15 minute winter	MH-44-S	14	7.945	0.845	69.1	0.9552	0.0000	SURCHARGED
15 minute winter	MH-43-S	13	7.921	0.891	58.8	1.0079	0.0000	SURCHARGED
15 minute winter	MH-4-S	12	6.404	0.104	39.8	0.2649	0.0000	OK
15 minute winter	MH-60-S	12	6.582	0.132	27.2	0.1497	0.0000	OK
15 minute winter	MH-65-S	12	7.219	0.219	6.9	0.2477	0.0000	SURCHARGED
15 minute winter	MH-3-S	12	6.405	0.005	0.2	0.0132	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH-94-S	PN02-S	MH-95-S	175.1	0.351	0.279	26.5672	
60 minute winter	Tank	PN03-S	MH-94-S	173.4	0.558	0.253	16.7523	
60 minute winter	MH-5-S	PN04-S	Tank	234.0	0.960	0.882	1.8650	
60 minute winter	MH-6-S	PN05-S	MH-5-S	229.0	1.004	0.611	13.7951	
60 minute winter	MH-58-S	PN06-S	MH-6-S	211.3	1.215	0.328	3.9862	
30 minute winter	MH-57-S	PN07-S	MH-58-S	229.4	1.376	0.582	5.7947	
30 minute winter	MH-59-S	PN08-S	MH-57-S	26.0	0.500	0.061	5.7849	
30 minute winter	MH-56-S	PN09-S	MH-57-S	210.1	1.110	0.819	10.7595	
30 minute winter	MH-54-S	PN10-S	MH-56-S	204.0	1.090	0.995	8.2495	
15 minute winter	MH-55-S	PN11-S	MH-54-S	16.7	0.486	0.042	5.9217	
30 minute winter	MH-53-S	PN12-S	MH-54-S	192.1	1.213	1.330	2.3385	
30 minute winter	MH-52-S	PN13-S	MH-53-S	217.2	1.550	0.751	2.3746	
15 minute winter	MH-51-S	PN14-S	MH-52-S	234.0	1.564	1.094	10.0699	
15 minute winter	MH-39-S	PN15-S	MH-51-S	171.9	1.559	1.684	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	154.4	1.400	1.504	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	129.2	1.171	2.203	6.2219	
15 minute winter	MH-41-S	Weir	MH-59-S	0.0				0.0
15 minute winter	MH-42-S	PN18-S	MH-41-S	111.0	1.007	1.201	5.0855	
15 minute winter	MH-44-S	PN19-S	MH-42-S	-42.1	0.437	-0.317	3.7372	
15 minute winter	MH-43-S	PN23-S	MH-41-S	55.7	0.792	0.651	2.1235	
15 minute winter	MH-4-S	PN24-S	MH-6-S	38.8	0.554	0.068	9.3973	
15 minute winter	MH-60-S	PN25-S	MH-4-S	27.1	1.060	0.387	0.9716	
15 minute winter	MH-65-S	PN30-S	MH-61-S	6.6	0.447	0.421	0.5353	
15 minute winter	MH-3-S	PN31-S	MH-4-S	-0.2	-0.019	0.000	0.2260	

Results for 50 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH-62-S	12	7.241	0.651	31.4	0.7365	0.0000	SURCHARGED
15 minute winter	MH-61-S	12	7.340	0.580	36.4	0.6554	0.0000	SURCHARGED
15 minute winter	MH-63-S	12	7.342	0.512	4.2	0.5792	0.0000	SURCHARGED
960 minute winter	MH-81-S	975	8.731	0.931	0.9	1.0533	0.0000	SURCHARGED
960 minute winter	MH-83-S	975	8.732	0.732	0.8	0.8274	0.0000	SURCHARGED
960 minute winter	MH-86-S	975	8.732	0.532	0.4	0.6012	0.0000	SURCHARGED
1440 minute winter	MH-99-S	1410	8.556	1.006	1.3	1.1379	0.0000	SURCHARGED
1440 minute winter	MH-103-S	1440	8.555	0.825	0.9	0.9332	0.0000	SURCHARGED
1440 minute winter	MH-107-S	1470	8.555	0.505	0.6	0.5711	0.0000	SURCHARGED
1440 minute winter	MH-108-S	1410	8.555	0.435	0.3	0.4919	0.0000	SURCHARGED
1440 minute winter	MH-102-S	1440	8.556	0.986	0.6	1.1147	0.0000	SURCHARGED
720 minute winter	MH-106-S	750	8.436	0.696	0.8	0.7877	0.0000	SURCHARGED
720 minute winter	MH-110-S	810	8.436	0.686	0.6	0.7762	0.0000	SURCHARGED
720 minute winter	MH-111-S	750	8.436	0.676	0.3	0.7650	0.0000	SURCHARGED
1440 minute winter	MH-73-S	1410	8.710	1.450	0.5	1.6401	0.0000	SURCHARGED
1440 minute winter	MH-74-S	1380	8.710	1.260	0.3	1.4253	0.0000	SURCHARGED
1440 minute winter	MH-101-S	1410	8.555	0.575	0.3	0.6507	0.0000	SURCHARGED
1440 minute winter	Soakaway 1	1350	8.555	1.045	1.5	45.0702	0.0000	OK
960 minute winter	Soakaway 2	945	8.731	1.026	0.8	19.6336	0.0000	OK
1440 minute winter	Soakaway 3	1380	8.710	1.500	0.5	12.1964	0.0000	OK
720 minute winter	Soakaway 4	705	8.436	0.786	0.8	13.8628	0.0000	OK
60 minute winter	Outfall	51	5.671	0.251	191.9	0.0000	0.0000	OK
60 minute winter	MH-95-S	51	6.273	0.773	192.1	1.9677	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH-62-S	PN27-S	MH-60-S	29.7	1.689	2.017	0.3505	
15 minute winter	MH-61-S	PN28-S	MH-62-S	31.0	0.857	0.723	0.9925	
15 minute winter	MH-63-S	PN29-S	MH-61-S	-3.8	0.182	-0.084	0.3601	
960 minute winter	MH-81-S	PN76-S	Soakaway 2	0.8	0.462	0.009	0.9704	
960 minute winter	MH-83-S	PN47-S	MH-81-S	0.6	0.238	0.006	1.6942	
960 minute winter	MH-86-S	PN48-S	MH-83-S	0.4	0.244	0.004	1.8844	
1440 minute winter	MH-99-S	PN75-S	Soakaway 1	1.5	0.476	0.009	0.6538	
1440 minute winter	MH-103-S	PN54-S	MH-99-S	0.8	0.298	0.017	0.7777	
1440 minute winter	MH-107-S	PN55-S	MH-103-S	0.7	0.353	0.011	0.8631	
1440 minute winter	MH-108-S	PN57-S	MH-107-S	0.4	0.248	0.014	0.7961	
1440 minute winter	MH-102-S	PN58-S	MH-99-S	0.7	0.170	0.011	0.4998	
720 minute winter	MH-106-S	PN78-S	Soakaway 4	0.8	0.442	0.020	0.6683	
720 minute winter	MH-110-S	PN60-S	MH-106-S	0.5	0.146	0.014	0.6543	
720 minute winter	MH-111-S	PN61-S	MH-110-S	0.3	0.084	0.008	0.8251	
1440 minute winter	MH-73-S	PN77-S	Soakaway 3	0.5	0.179	0.003	0.7599	
1440 minute winter	MH-74-S	PN72-S	MH-73-S	0.2	0.140	0.002	8.0582	
1440 minute winter	MH-101-S	PN73-S	MH-102-S	0.3	0.167	0.005	1.2320	
1440 minute winter	Soakaway 1	Infiltration		0.0				
960 minute winter	Soakaway 2	Infiltration		0.0				
1440 minute winter	Soakaway 3	Infiltration		0.0				
720 minute winter	Soakaway 4	Infiltration		0.0				
60 minute winter	MH-95-S	PN01-S	Outfall	191.9	1.104	0.294	12.7593	559.2

Results for 50 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH-94-S	51	6.279	0.729	193.3	1.8561	0.0000	OK
60 minute winter	Tank	50	6.285	0.695	252.5	122.0119	0.0000	OK
60 minute winter	MH-5-S	50	6.301	0.701	256.9	1.7849	0.0000	SURCHARGED
60 minute winter	MH-6-S	47	6.352	0.602	259.1	1.5325	0.0000	SURCHARGED
60 minute winter	MH-58-S	47	6.367	0.467	229.2	1.1894	0.0000	OK
60 minute winter	MH-57-S	46	6.404	0.394	225.3	1.0030	0.0000	OK
60 minute winter	MH-59-S	46	6.404	0.204	19.8	0.2312	0.0000	OK
30 minute winter	MH-56-S	23	6.519	0.429	223.8	1.0927	0.0000	OK
30 minute winter	MH-54-S	23	6.635	0.465	216.2	1.1832	0.0000	OK
15 minute winter	MH-55-S	10	7.306	0.066	19.3	0.1674	0.0000	OK
30 minute winter	MH-53-S	23	6.733	0.533	238.9	42.3668	0.0000	SURCHARGED
30 minute winter	MH-52-S	22	6.835	0.515	233.8	1.3100	0.0000	SURCHARGED
15 minute winter	MH-51-S	11	7.207	0.607	251.7	0.6865	0.0000	SURCHARGED
15 minute winter	MH-39-S	11	7.670	0.940	178.3	1.0628	0.0000	SURCHARGED
15 minute winter	MH-40-S	11	7.877	1.077	157.4	1.2185	0.0000	SURCHARGED
15 minute winter	MH-41-S	13	8.019	1.169	154.9	1.3219	0.0000	SURCHARGED
15 minute winter	MH-42-S	14	8.077	1.127	198.5	48.9072	0.0000	SURCHARGED
15 minute winter	MH-44-S	13	8.081	0.981	38.6	1.1091	0.0000	SURCHARGED
15 minute winter	MH-43-S	11	8.069	1.039	65.7	1.1753	0.0000	SURCHARGED
15 minute winter	MH-4-S	12	6.409	0.109	43.8	0.2786	0.0000	OK
15 minute winter	MH-60-S	12	6.589	0.139	29.7	0.1578	0.0000	OK
15 minute winter	MH-65-S	12	7.379	0.379	7.7	0.4289	0.0000	SURCHARGED
15 minute winter	MH-3-S	12	6.410	0.010	0.5	0.0265	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH-94-S	PN02-S	MH-95-S	192.1	0.356	0.307	28.0964	
60 minute winter	Tank	PN03-S	MH-94-S	189.8	0.567	0.277	17.8685	
60 minute winter	MH-5-S	PN04-S	Tank	252.5	0.987	0.951	1.8650	
60 minute winter	MH-6-S	PN05-S	MH-5-S	245.3	1.018	0.655	14.1523	
60 minute winter	MH-58-S	PN06-S	MH-6-S	224.8	1.218	0.349	4.4190	
60 minute winter	MH-57-S	PN07-S	MH-58-S	222.3	1.353	0.564	7.1900	
60 minute winter	MH-59-S	PN08-S	MH-57-S	17.9	0.448	0.042	6.8221	
30 minute winter	MH-56-S	PN09-S	MH-57-S	223.9	1.109	0.873	11.4130	
30 minute winter	MH-54-S	PN10-S	MH-56-S	216.2	1.104	1.054	8.6165	
15 minute winter	MH-55-S	PN11-S	MH-54-S	18.7	0.498	0.047	6.0798	
30 minute winter	MH-53-S	PN12-S	MH-54-S	201.9	1.274	1.397	2.3439	
30 minute winter	MH-52-S	PN13-S	MH-53-S	230.4	1.556	0.797	2.3746	
15 minute winter	MH-51-S	PN14-S	MH-52-S	249.1	1.572	1.165	10.0707	
15 minute winter	MH-39-S	PN15-S	MH-51-S	177.2	1.607	1.736	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	159.3	1.444	1.551	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	134.9	1.223	2.300	6.2219	
15 minute winter	MH-41-S	Weir	MH-59-S	5.6				0.5
15 minute winter	MH-42-S	PN18-S	MH-41-S	120.8	1.095	1.306	5.0855	
15 minute winter	MH-44-S	PN19-S	MH-42-S	67.3	0.734	0.507	3.7372	
15 minute winter	MH-43-S	PN23-S	MH-41-S	62.2	0.883	0.726	2.1235	
15 minute winter	MH-4-S	PN24-S	MH-6-S	43.0	0.561	0.076	10.2045	
15 minute winter	MH-60-S	PN25-S	MH-4-S	29.6	1.086	0.424	1.0407	
15 minute winter	MH-65-S	PN30-S	MH-61-S	7.1	0.467	0.451	0.5353	
15 minute winter	MH-3-S	PN31-S	MH-4-S	-0.5	-0.040	-0.001	0.2472	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH-62-S	12	7.453	0.863	34.7	0.9759	0.0000	SURCHARGED
15 minute winter	MH-61-S	12	7.584	0.824	42.4	0.9315	0.0000	SURCHARGED
15 minute winter	MH-63-S	12	7.584	0.754	5.1	0.8523	0.0000	SURCHARGED
1440 minute winter	MH-81-S	1380	9.067	1.267	0.8	1.4326	0.0000	SURCHARGED
1440 minute winter	MH-83-S	1380	9.067	1.067	0.6	1.2064	0.0000	SURCHARGED
1440 minute winter	MH-86-S	1470	9.067	0.867	0.3	0.9803	0.0000	SURCHARGED
1440 minute winter	MH-99-S	1530	8.700	1.150	1.3	1.3008	0.0000	SURCHARGED
1440 minute winter	MH-103-S	1440	8.699	0.969	0.9	1.0962	0.0000	SURCHARGED
1440 minute winter	MH-107-S	1380	8.699	0.649	0.6	0.7344	0.0000	SURCHARGED
1440 minute winter	MH-108-S	1380	8.699	0.579	0.3	0.6552	0.0000	SURCHARGED
1440 minute winter	MH-102-S	1410	8.699	1.129	0.6	1.2774	0.0000	SURCHARGED
960 minute winter	MH-106-S	1005	8.642	0.902	0.8	1.0199	0.0000	SURCHARGED
960 minute winter	MH-110-S	915	8.642	0.892	0.6	1.0085	0.0000	SURCHARGED
960 minute winter	MH-111-S	975	8.642	0.882	0.3	0.9973	0.0000	SURCHARGED
1440 minute winter	MH-73-S	1410	9.056	1.796	0.7	2.0317	0.0000	SURCHARGED
1440 minute winter	MH-74-S	1530	9.056	1.606	0.4	1.8164	0.0000	SURCHARGED
1440 minute winter	MH-101-S	1440	8.700	0.720	0.3	0.8139	0.0000	SURCHARGED
1440 minute winter	Soakaway 1	1380	8.699	1.189	1.3	51.2844	0.0000	OK
1440 minute winter	Soakaway 2	1350	9.067	1.362	0.8	26.0490	0.0000	OK
1440 minute winter	Soakaway 3	1410	9.056	1.846	0.6	15.0106	0.0000	OK
960 minute winter	Soakaway 4	900	8.642	0.992	0.8	17.4832	0.0000	OK
60 minute winter	Outfall	52	5.684	0.264	212.1	0.0000	0.0000	OK
60 minute winter	MH-95-S	51	6.328	0.828	212.2	2.1082	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	MH-62-S	PN27-S	MH-60-S	33.8	1.921	2.295	0.3558	
15 minute winter	MH-61-S	PN28-S	MH-62-S	34.3	0.862	0.801	0.9925	
15 minute winter	MH-63-S	PN29-S	MH-61-S	-4.7	-0.145	-0.103	0.3601	
1440 minute winter	MH-81-S	PN76-S	Soakaway 2	0.8	0.331	0.008	0.9704	
1440 minute winter	MH-83-S	PN47-S	MH-81-S	0.5	0.238	0.005	1.6942	
1440 minute winter	MH-86-S	PN48-S	MH-83-S	0.3	0.217	0.003	1.8844	
1440 minute winter	MH-99-S	PN75-S	Soakaway 1	1.3	0.476	0.008	0.6538	
1440 minute winter	MH-103-S	PN54-S	MH-99-S	0.9	0.298	0.018	0.7777	
1440 minute winter	MH-107-S	PN55-S	MH-103-S	0.7	0.353	0.012	0.8631	
1440 minute winter	MH-108-S	PN57-S	MH-107-S	0.4	0.248	0.013	0.7961	
1440 minute winter	MH-102-S	PN58-S	MH-99-S	0.7	0.170	0.012	0.4998	
960 minute winter	MH-106-S	PN78-S	Soakaway 4	0.8	0.442	0.020	0.6683	
960 minute winter	MH-110-S	PN60-S	MH-106-S	0.5	0.146	0.014	0.6543	
960 minute winter	MH-111-S	PN61-S	MH-110-S	0.3	0.084	0.008	0.8251	
1440 minute winter	MH-73-S	PN77-S	Soakaway 3	0.6	0.179	0.004	0.7599	
1440 minute winter	MH-74-S	PN72-S	MH-73-S	0.3	0.140	0.003	8.0582	
1440 minute winter	MH-101-S	PN73-S	MH-102-S	0.3	0.167	0.005	1.2320	
1440 minute winter	Soakaway 1	Infiltration		0.0				
1440 minute winter	Soakaway 2	Infiltration		0.0				
1440 minute winter	Soakaway 3	Infiltration		0.0				
960 minute winter	Soakaway 4	Infiltration		0.0				
60 minute winter	MH-95-S	PN01-S	Outfall	212.1	1.138	0.325	13.6819	655.1

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH-94-S	51	6.335	0.785	212.9	1.9989	0.0000	OK
60 minute winter	Tank	51	6.341	0.751	276.0	135.8362	0.0000	OK
60 minute winter	MH-5-S	50	6.362	0.762	279.6	1.9381	0.0000	SURCHARGED
60 minute winter	MH-6-S	48	6.423	0.673	281.7	1.7138	0.0000	SURCHARGED
60 minute winter	MH-58-S	47	6.449	0.549	247.9	1.3967	0.0000	OK
60 minute winter	MH-57-S	46	6.484	0.474	246.2	1.2058	0.0000	OK
60 minute winter	MH-59-S	46	6.484	0.284	23.2	0.3217	0.0000	OK
30 minute winter	MH-56-S	23	6.572	0.482	239.2	1.2255	0.0000	OK
30 minute winter	MH-54-S	23	6.682	0.512	230.3	1.3033	0.0000	OK
15 minute winter	MH-55-S	10	7.311	0.071	22.4	0.1801	0.0000	OK
30 minute winter	MH-53-S	23	6.790	0.590	260.6	49.5677	0.0000	SURCHARGED
30 minute winter	MH-52-S	21	6.902	0.582	252.2	1.4823	0.0000	SURCHARGED
15 minute winter	MH-51-S	11	7.344	0.744	272.0	0.8411	0.0000	SURCHARGED
15 minute winter	MH-39-S	11	7.821	1.091	184.7	1.2340	0.0000	SURCHARGED
15 minute winter	MH-40-S	11	8.023	1.223	156.9	1.3835	0.0000	SURCHARGED
15 minute winter	MH-41-S	13	8.102	1.252	182.3	1.4163	0.0000	SURCHARGED
15 minute winter	MH-42-S	13	8.185	1.235	233.5	57.1964	0.0000	SURCHARGED
15 minute winter	MH-44-S	13	8.183	1.083	44.9	1.2248	0.0000	SURCHARGED
15 minute winter	MH-43-S	11	8.226	1.196	76.3	1.3529	0.0000	SURCHARGED
60 minute winter	MH-4-S	48	6.424	0.124	31.5	0.3157	0.0000	OK
15 minute winter	MH-60-S	12	6.600	0.150	33.8	0.1697	0.0000	OK
15 minute winter	MH-65-S	12	7.630	0.630	9.0	0.7123	0.0000	SURCHARGED
60 minute winter	MH-3-S	48	6.426	0.026	0.8	0.0660	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH-94-S	PN02-S	MH-95-S	212.2	0.371	0.339	29.7741	
60 minute winter	Tank	PN03-S	MH-94-S	209.2	0.582	0.305	19.1470	
60 minute winter	MH-5-S	PN04-S	Tank	276.0	1.024	1.040	1.8650	
60 minute winter	MH-6-S	PN05-S	MH-5-S	264.9	1.037	0.707	14.1560	
60 minute winter	MH-58-S	PN06-S	MH-6-S	241.2	1.220	0.374	4.7164	
60 minute winter	MH-57-S	PN07-S	MH-58-S	238.9	1.353	0.606	8.4804	
60 minute winter	MH-59-S	PN08-S	MH-57-S	20.1	0.463	0.047	8.9932	
30 minute winter	MH-56-S	PN09-S	MH-57-S	235.6	1.082	0.918	13.5874	
30 minute winter	MH-54-S	PN10-S	MH-56-S	226.9	1.102	1.106	9.2925	
15 minute winter	MH-55-S	PN11-S	MH-54-S	21.7	0.517	0.055	6.2072	
30 minute winter	MH-53-S	PN12-S	MH-54-S	210.9	1.331	1.460	2.3439	
30 minute winter	MH-52-S	PN13-S	MH-53-S	250.2	1.579	0.866	2.3746	
15 minute winter	MH-51-S	PN14-S	MH-52-S	269.6	1.701	1.260	10.0707	
15 minute winter	MH-39-S	PN15-S	MH-51-S	182.3	1.653	1.785	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	159.0	1.442	1.549	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	135.8	1.232	2.317	6.2219	
15 minute winter	MH-41-S	Weir	MH-59-S	72.6				14.7
15 minute winter	MH-42-S	PN18-S	MH-41-S	125.6	1.139	1.359	5.0855	
15 minute winter	MH-44-S	PN19-S	MH-42-S	54.7	0.740	0.412	3.7372	
15 minute winter	MH-43-S	PN23-S	MH-41-S	74.5	1.059	0.870	2.1235	
60 minute winter	MH-4-S	PN24-S	MH-6-S	31.4	0.380	0.055	13.0143	
15 minute winter	MH-60-S	PN25-S	MH-4-S	33.8	1.129	0.484	1.1412	
15 minute winter	MH-65-S	PN30-S	MH-61-S	7.4	0.467	0.468	0.5353	
60 minute winter	MH-3-S	PN31-S	MH-4-S	-0.8	-0.053	-0.001	0.3158	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	MH-62-S	13	8.130	1.540	45.9	1.7421	0.0000	SURCHARGED
15 minute winter	MH-61-S	12	8.347	1.587	56.0	1.7950	0.0000	SURCHARGED
15 minute winter	MH-63-S	12	8.348	1.518	8.4	1.7171	0.0000	SURCHARGED
1440 minute winter	MH-81-S	1410	9.594	1.794	1.1	2.0287	0.0000	FLOOD RISK
1440 minute winter	MH-83-S	1470	9.594	1.594	0.7	1.8026	0.0000	SURCHARGED
1440 minute winter	MH-86-S	1470	9.594	1.394	0.4	1.5765	0.0000	SURCHARGED
1440 minute winter	MH-99-S	1410	9.132	1.582	2.2	1.7895	0.0000	FLOOD RISK
1440 minute winter	MH-103-S	1470	9.132	1.402	1.4	1.5853	0.0000	FLOOD RISK
1440 minute winter	MH-107-S	1500	9.132	1.082	0.9	1.2236	0.0000	SURCHARGED
1440 minute winter	MH-108-S	1410	9.132	1.012	0.5	1.1445	0.0000	SURCHARGED
1440 minute winter	MH-102-S	1470	9.132	1.562	1.0	1.7667	0.0000	SURCHARGED
1440 minute winter	MH-106-S	1380	9.258	1.518	0.8	1.7165	0.0000	FLOOD RISK
1440 minute winter	MH-110-S	1380	9.258	1.508	0.6	1.7051	0.0000	FLOOD RISK
1440 minute winter	MH-111-S	1440	9.258	1.498	0.3	1.6938	0.0000	FLOOD RISK
1440 minute winter	MH-73-S	1440	9.887	2.627	0.9	2.9709	0.0000	FLOOD RISK
1440 minute winter	MH-74-S	1440	9.887	2.437	0.5	2.7563	0.0000	FLOOD RISK
1440 minute winter	MH-101-S	1530	9.132	1.152	0.5	1.3031	0.0000	FLOOD RISK
1440 minute winter	Soakaway 1	1410	9.132	1.622	2.2	69.9418	0.0000	OK
1440 minute winter	Soakaway 2	1410	9.594	1.889	1.0	36.1329	0.0000	OK
1440 minute winter	Soakaway 3	1440	9.887	2.677	0.8	21.7642	0.0000	OK
1440 minute winter	Soakaway 4	1380	9.258	1.608	0.8	28.3425	0.0000	OK
60 minute winter	Outfall	51	5.699	0.279	235.9	0.0000	0.0000	OK
60 minute winter	MH-95-S	51	6.574	1.074	235.9	2.7331	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-62-S	PN27-S	MH-60-S	44.2	2.512	3.000	0.3559	
15 minute winter	MH-61-S	PN28-S	MH-62-S	45.3	1.140	1.059	0.9925	
15 minute winter	MH-63-S	PN29-S	MH-61-S	-7.8	-0.197	-0.172	0.3601	
1440 minute winter	MH-81-S	PN76-S	Soakaway 2	1.0	0.331	0.011	0.9704	
1440 minute winter	MH-83-S	PN47-S	MH-81-S	0.7	0.238	0.007	1.6942	
1440 minute winter	MH-86-S	PN48-S	MH-83-S	0.3	0.217	0.004	1.8844	
1440 minute winter	MH-99-S	PN75-S	Soakaway 1	2.2	0.476	0.013	0.6538	
1440 minute winter	MH-103-S	PN54-S	MH-99-S	1.3	0.298	0.027	0.7777	
1440 minute winter	MH-107-S	PN55-S	MH-103-S	0.9	0.353	0.014	0.8631	
1440 minute winter	MH-108-S	PN57-S	MH-107-S	0.5	0.271	0.017	0.7961	
1440 minute winter	MH-102-S	PN58-S	MH-99-S	0.9	0.170	0.015	0.4998	
1440 minute winter	MH-106-S	PN78-S	Soakaway 4	0.8	0.324	0.020	0.6683	
1440 minute winter	MH-110-S	PN60-S	MH-106-S	0.5	0.146	0.014	0.6543	
1440 minute winter	MH-111-S	PN61-S	MH-110-S	0.3	0.082	0.008	0.8251	
1440 minute winter	MH-73-S	PN77-S	Soakaway 3	0.8	0.179	0.005	0.7599	
1440 minute winter	MH-74-S	PN72-S	MH-73-S	0.4	0.140	0.004	8.0582	
1440 minute winter	MH-101-S	PN73-S	MH-102-S	0.5	0.167	0.008	1.2320	
1440 minute winter	Soakaway 1	Infiltration		0.0				
1440 minute winter	Soakaway 2	Infiltration		0.0				
1440 minute winter	Soakaway 3	Infiltration		0.0				
1440 minute winter	Soakaway 4	Infiltration		0.0				
60 minute winter	MH-95-S	PN01-S	Outfall	235.9	1.173	0.361	14.7537	917.5

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	MH-94-S	51	6.584	1.034	245.6	2.6318	0.0000	SURCHARGED
60 minute winter	Tank	51	6.592	1.002	376.0	196.9899	0.0000	SURCHARGED
60 minute winter	MH-5-S	50	6.617	1.017	377.6	2.5879	0.0000	SURCHARGED
60 minute winter	MH-6-S	45	6.694	0.944	366.8	2.4033	0.0000	SURCHARGED
30 minute winter	MH-58-S	23	6.773	0.873	448.3	2.2208	0.0000	SURCHARGED
30 minute winter	MH-57-S	21	6.914	0.904	442.6	2.3006	0.0000	SURCHARGED
15 minute winter	MH-59-S	12	6.983	0.783	311.9	0.8858	0.0000	SURCHARGED
30 minute winter	MH-56-S	22	6.971	0.881	247.3	2.2420	0.0000	SURCHARGED
30 minute winter	MH-54-S	23	7.062	0.892	234.8	2.2689	0.0000	SURCHARGED
15 minute winter	MH-55-S	10	7.324	0.084	31.4	0.2129	0.0000	OK
30 minute winter	MH-53-S	24	7.147	0.947	299.9	94.6294	0.0000	SURCHARGED
30 minute winter	MH-52-S	24	7.237	0.917	287.9	2.3346	0.0000	SURCHARGED
15 minute winter	MH-51-S	11	7.608	1.008	303.0	1.1395	0.0000	FLOOD RISK
15 minute winter	MH-39-S	11	8.054	1.324	191.7	1.4978	0.0000	FLOOD RISK
15 minute winter	MH-40-S	11	8.214	1.414	165.8	1.5989	0.0000	SURCHARGED
15 minute winter	MH-41-S	12	8.241	1.391	285.0	1.5735	0.0000	SURCHARGED
15 minute winter	MH-42-S	13	8.384	1.434	287.2	72.5926	0.0000	SURCHARGED
15 minute winter	MH-44-S	13	8.392	1.292	62.9	1.4613	0.0000	SURCHARGED
15 minute winter	MH-43-S	10	8.531	1.501	106.8	1.6978	0.0000	SURCHARGED
60 minute winter	MH-4-S	44	6.695	0.395	52.2	1.0045	0.0000	OK
30 minute winter	MH-60-S	23	6.727	0.277	40.1	0.3131	0.0000	OK
15 minute winter	MH-65-S	13	8.422	1.422	12.6	1.6085	0.0000	SURCHARGED
60 minute winter	MH-3-S	45	6.695	0.295	9.0	0.7505	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	MH-94-S	PN02-S	MH-95-S	235.9	0.396	0.377	31.5150	
60 minute winter	Tank	PN03-S	MH-94-S	232.3	0.607	0.338	21.0578	
60 minute winter	MH-5-S	PN04-S	Tank	376.0	1.335	1.417	1.8650	
60 minute winter	MH-6-S	PN05-S	MH-5-S	358.3	1.272	0.957	14.1560	
30 minute winter	MH-58-S	PN06-S	MH-6-S	443.9	1.576	0.688	4.8147	
30 minute winter	MH-57-S	PN07-S	MH-58-S	427.6	1.518	1.085	9.3903	
15 minute winter	MH-59-S	PN08-S	MH-57-S	319.0	1.133	0.743	13.6828	
30 minute winter	MH-56-S	PN09-S	MH-57-S	234.8	1.060	0.915	15.9472	
30 minute winter	MH-54-S	PN10-S	MH-56-S	228.6	1.089	1.115	9.5130	
15 minute winter	MH-55-S	PN11-S	MH-54-S	30.6	0.562	0.078	6.4150	
30 minute winter	MH-53-S	PN12-S	MH-54-S	214.4	1.353	1.484	2.3439	
30 minute winter	MH-52-S	PN13-S	MH-53-S	285.3	1.801	0.987	2.3746	
15 minute winter	MH-51-S	PN14-S	MH-52-S	300.7	1.898	1.406	10.0707	
15 minute winter	MH-39-S	PN15-S	MH-51-S	183.7	1.666	1.799	5.4331	
15 minute winter	MH-40-S	PN16-S	MH-39-S	157.3	1.427	1.532	2.8945	
15 minute winter	MH-41-S	PN17-S	MH-40-S	128.1	1.162	2.185	6.2219	
15 minute winter	MH-41-S	Weir	MH-59-S	262.8				76.8
15 minute winter	MH-42-S	PN18-S	MH-41-S	-135.8	-1.231	-1.469	5.0855	
15 minute winter	MH-44-S	PN19-S	MH-42-S	60.5	0.616	0.456	3.7372	
15 minute winter	MH-43-S	PN23-S	MH-41-S	105.1	1.492	1.227	2.1235	
60 minute winter	MH-4-S	PN24-S	MH-6-S	42.1	0.415	0.074	19.2306	
30 minute winter	MH-60-S	PN25-S	MH-4-S	39.9	1.113	0.571	2.6034	
15 minute winter	MH-65-S	PN30-S	MH-61-S	9.3	0.528	0.590	0.5353	
60 minute winter	MH-3-S	PN31-S	MH-4-S	-9.0	-0.219	-0.015	2.2900	