SURFACE WATER DRIANAGE CALCULATIONS

UPON

LAND OFF

CHAPELGATE, SUTTON ST JAMES

LINCOLNSHIRE

PROJECT No: SW 21-117

DOCUMENT REF: SW 21-117-CAL-01



SCENIC HOMES

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Rainfall Methodology	FEH-13
Return Period (years)	100
Additional Flow (%)	40
CV	0.750
Time of Entry (mins)	10.00
Maximum Time of Concentration (mins)	30.00
Maximum Rainfall (mm/hr)	1.0
Minimum Velocity (m/s)	0.10
Connection Type	Level Soffits
Minimum Backdrop Height (m)	0.200
Preferred Cover Depth (m)	0.450
Include Intermediate Ground	
Enforce best practice design rules	x

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	Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Node Type	Manhole Type	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)	Notes
	IC-0101-S	0.012	10.00		2.000	Manhole	Adoptable	450		2220.675	1726.723	0.900	
	IC-0102-S	0.006	10.00		1.900	Manhole	Adoptable	450		2228.433	1715.017	0.950	
	IC-0103-S	0.007	10.00		1.860	Manhole	Adoptable	450		2231.327	1700.633	1.060	
	MH-0106-S				1.650	Manhole	Adoptable	1200		2254.899	1669.938	1.430	
	IC-0107-S	0.025	10.00		2.000	Manhole	Adoptable	450		2189.041	1639.623	0.800	
	IC-0108-S	0.012	10.00		1.900	Manhole	Adoptable	450		2189.598	1654.662	0.850	
	IC-0109-S	0.012	10.00		1.850	Manhole	Adoptable	450		2198.147	1660.998	0.950	
	IC-0110-S	0.007	10.00		1.775	Manhole	Adoptable	450		2216.753	1669.707	1.125	
	MH-0111-S	0.012	10.00		1.750	Manhole	Adoptable	1200		2225.659	1681.219	1.250	
	MH-0112-S	0.012	10.00		1.700	Manhole	Adoptable	1200		2242.703	1676.542	1.350	
	MH-0113-S	0.015	10.00		1.630	Manhole	Adoptable	1200		2246.228	1667.476	1.350	
	MH-0114-S	0.028	10.00		1.755	Manhole	Adoptable	1200		2252.424	1646.963	1.375	
	MH-0115-S				1.600	Manhole	Adoptable	1200		2267.775	1673.825	1.440	
	DITCH				1.600	Manhole	Adoptable	1200		2285.213	1679.088	1.530	
	DUMMY				1.600	Manhole	Adoptable	1200		2269.000	1674.114	1.450	

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	Name	US Node	DS Node	Length (m)	ks (mm) / n	Velocity Equation	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	Link Type	T of C (mins)	Rain (mm/hr)	Con Offset (m)	Min DS IL (m)	Lateral Area (ha)	Lateral Ins Point (%)	Lateral T of E (mins)
	001	IC-0101-S	IC-0102-S	14.043	0.600	Colebrook-White	1.100	0.950	0.150	93.6	150	Circular	10.23	1.0					
?	002	IC-0102-S	IC-0103-S	14.672	0.600	Colebrook-White	0.950	0.800	0.150	97.8	150	Circular	10.47	1.0					
	006	IC-0107-S	IC-0108-S	15.049	0.600	Colebrook-White	1.200	1.050	0.150	100.3	150	Circular	10.25	1.0					
	007	IC-0108-S	IC-0109-S	10.641	0.600	Colebrook-White	1.050	0.900	0.150	70.9	150	Circular	10.40	1.0					
?	008	IC-0109-S	IC-0110-S	20.543	0.600	Colebrook-White	0.900	0.650	0.250	82.2	150	Circular	10.71	1.0					
?	009	IC-0110-S	MH-0111-S	14.555	0.600	Colebrook-White	0.650	0.500	0.150	97.0	150	Circular	10.94	1.0					
?	010	MH-0111-S	MH-0112-S	17.674	0.600	Colebrook-White	0.500	0.400	0.100	176.7	300	Circular	11.19	1.0					
?	011	MH-0112-S	MH-0113-S	9.727	0.600	Colebrook-White	0.350	0.280	0.070	139.0	300	Circular	11.32	1.0					
?	012	MH-0114-S	MH-0113-S	21.428	0.600	Colebrook-White	0.380	0.280	0.100	214.3	300	Circular	10.33	1.0					
?	013	MH-0113-S	MH-0106-S	9.014	0.600	Colebrook-White	0.280	0.220	0.060	150.2	300	Circular	11.43	1.0					
?	014	MH-0106-S	MH-0115-S	13.450	0.600	Colebrook-White	0.220	0.160	0.060	224.2	300	Circular	11.65	1.0					
	015	MH-0115-S	DUMMY	1.259	0.600	Colebrook-White	0.160	0.150	0.010	125.9	800	Circular	11.66	1.0					
?	016	IC-0103-S	MH-0111-S	20.224	0.600	Colebrook-White	0.800	0.590	0.210	96.3	150	Circular	10.80	1.0					
?	017	DUMMY	DITCH	16.959	0.600	Colebrook-White	0.150	0.070	0.080	212.0	300	Circular	11.92	1.0					

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	Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Minimum Depth (m)	Maximum Depth (m)	Σ Area (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)	Notes
	001	IC-0101-S	IC-0102-S	1.039	18.4	0.0	0.750	0.800	0.750	0.800	0.012	0.0	6	0.204	
?	002	IC-0102-S	IC-0103-S	1.016	18.0	0.1	0.800	0.910	0.800	0.910	0.018	0.0	7	0.230	Downstream Depth is more than twice the specified minimum
	006	IC-0107-S	IC-0108-S	1.003	17.7	0.1	0.650	0.700	0.650	0.700	0.025	0.0	8	0.255	
	007	IC-0108-S	IC-0109-S	1.195	21.1	0.1	0.700	0.800	0.700	0.800	0.037	0.0	9	0.336	
?	008	IC-0109-S	IC-0110-S	1.110	19.6	0.2	0.800	0.975	0.800	0.975	0.049	0.0	10	0.339	Downstream Depth is more than twice the specified minimum
?	009	IC-0110-S	MH-0111-S	1.020	18.0	0.2	0.975	1.100	0.975	1.100	0.056	0.0	11	0.336	Upstream Depth is more than twice the specified minimum | Downstream Depth is more than twice the specified minimum
?	010	MH-0111-S	MH-0112-S	1.179	83.4	0.4	0.950	1.000	0.950	1.000	0.093	0.0	14	0.292	Upstream Depth is more than twice the specified minimum | Downstream Depth is more than twice the specified minimum
?	011	MH-0112-S	MH-0113-S	1.332	94.1	0.4	1.050	1.050	1.050	1.050	0.105	0.0	14	0.331	Upstream Depth is more than twice the specified minimum | Downstream Depth is more than twice the specified minimum
?	012	MH-0114-S	MH-0113-S	1.070	75.6	0.1	1.075	1.050	1.050	1.075	0.028	0.0	8	0.182	Upstream Depth is more than twice the specified minimum | Downstream Depth is more than twice the specified minimum
?	013	MH-0113-S	MH-0106-S	1.280	90.5	0.6	1.050	1.130	1.050	1.130	0.148	0.0	17	0.353	Upstream Depth is more than twice the specified minimum | Downstream Depth is more than twice the specified minimum
?	014	MH-0106-S	MH-0115-S	1.046	73.9	0.6	1.130	1.140	1.130	1.140	0.148	0.0	18	0.307	Upstream Depth is more than twice the specified minimum | Downstream Depth is more than twice the specified minimum
	015	MH-0115-S	DUMMY	2.595	1304.3	0.6	0.640	0.650	0.640	0.650	0.148	0.0	13	0.327	
?	016	IC-0103-S	MH-0111-S	1.024	18.1	0.1	0.910	1.010	0.910	1.010	0.025	0.0	8	0.260	Upstream Depth is more than twice the specified minimum | Downstream Depth is more than twice the specified minimum
?	017	DUMMY	DITCH	1.076	76.0	0.6	1.150	1.230	1.150	1.230	0.148	0.0	18	0.316	Upstream Depth is more than twice the specified minimum | Downstream Depth is more than twice the specified minimum

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Link Name	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)	US Node Name	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node Name	Dia (mm)	Width (mm)	Node Type	MH Type
001	14.043	93.6	150	Circular	2.000	1.100	0.750	1.900	0.950	0.800	IC-0101-S	450		Manhole	Adoptable	IC-0102-S	450		Manhole	Adoptable
002	14.672	97.8	150	Circular	1.900	0.950	0.800	1.860	0.800	0.910	IC-0102-S	450		Manhole	Adoptable	IC-0103-S	450		Manhole	Adoptable
006	15.049	100.3	150	Circular	2.000	1.200	0.650	1.900	1.050	0.700	IC-0107-S	450		Manhole	Adoptable	IC-0108-S	450		Manhole	Adoptable
007	10.641	70.9	150	Circular	1.900	1.050	0.700	1.850	0.900	0.800	IC-0108-S	450		Manhole	Adoptable	IC-0109-S	450		Manhole	Adoptable
008	20.543	82.2	150	Circular	1.850	0.900	0.800	1.775	0.650	0.975	IC-0109-S	450		Manhole	Adoptable	IC-0110-S	450		Manhole	Adoptable
009	14.555	97.0	150	Circular	1.775	0.650	0.975	1.750	0.500	1.100	IC-0110-S	450		Manhole	Adoptable	MH-0111-S	1200		Manhole	Adoptable
010	17.674	176.7	300	Circular	1.750	0.500	0.950	1.700	0.400	1.000	MH-0111-S	1200		Manhole	Adoptable	MH-0112-S	1200		Manhole	Adoptable
011	9.727	139.0	300	Circular	1.700	0.350	1.050	1.630	0.280	1.050	MH-0112-S	1200		Manhole	Adoptable	MH-0113-S	1200		Manhole	Adoptable
012	21.428	214.3	300	Circular	1.755	0.380	1.075	1.630	0.280	1.050	MH-0114-S	1200		Manhole	Adoptable	MH-0113-S	1200		Manhole	Adoptable
013	9.014	150.2	300	Circular	1.630	0.280	1.050	1.650	0.220	1.130	MH-0113-S	1200		Manhole	Adoptable	MH-0106-S	1200		Manhole	Adoptable
014	13.450	224.2	300	Circular	1.650	0.220	1.130	1.600	0.160	1.140	MH-0106-S	1200		Manhole	Adoptable	MH-0115-S	1200		Manhole	Adoptable
015	1.259	125.9	800	Circular	1.600	0.160	0.640	1.600	0.150	0.650	MH-0115-S	1200		Manhole	Adoptable	DUMMY	1200		Manhole	Adoptable
016	20.224	96.3	150	Circular	1.860	0.800	0.910	1.750	0.590	1.010	IC-0103-S	450		Manhole	Adoptable	MH-0111-S	1200		Manhole	Adoptable
017	16.959	212.0	300	Circular	1.600	0.150	1.150	1.600	0.070	1.230	DUMMY	1200		Manhole	Adoptable	DITCH	1200		Manhole	Adoptable

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Node Name	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Node Type	MH Type		Link ID	IL (m)	Dia (mm)	Link Type
IC-0101-S	2220.675	1726.723	2.000	0.900	450		Manhole	Adoptable					
									0	001	1.100	150	Circular
IC-0102-S	2228.433	1715.017	1.900	0.950	450		Manhole	Adoptable	1	001	0.950	150	Circular
									0	002	0.950	150	Circular
IC-0103-S	2231.327	1700.633	1.860	1.060	450		Manhole	Adoptable	1	002	0.800	150	Circular
									0	016	0.800	150	Circular
MH-0106-S	2254.899	1669.938	1.650	1.430	1200		Manhole	Adoptable	1	013	0.220	300	Circular
									0	014	0.220	300	Circular
IC-0107-S	2189.041	1639.623	2.000	0.800	450		Manhole	Adoptable					
									0	006	1.200	150	Circular
IC-0108-S	2189.598	1654.662	1.900	0.850	450		Manhole	Adoptable	1	006	1.050	150	Circular
									0	007	1.050	150	Circular
IC-0109-S	2198.147	1660.998	1.850	0.950	450		Manhole	Adoptable	1	007	0.900	150	Circular
									0	008	0.900	150	Circular
IC-0110-S	2216.753	1669.707	1.775	1.125	450		Manhole	Adoptable	1	008	0.650	150	Circular

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									0	009	0.650	150	Circular
MH-0111-S	2225.659	1681.219	1.750	1.250	1200		Manhole	Adoptable	1	016	0.590	150	Circular
									2	009	0.500	150	Circular
									0	010	0.500	300	Circular
MH-0112-S	2242.703	1676.542	1.700	1.350	1200		Manhole	Adoptable	1	010	0.400	300	Circular
									0	011	0.350	300	Circular
MH-0113-S	2246.228	1667.476	1.630	1.350	1200		Manhole	Adoptable	1	012	0.280	300	Circular
									2	011	0.280	300	Circular
									0	013	0.280	300	Circular
MH-0114-S	2252.424	1646.963	1.755	1.375	1200		Manhole	Adoptable					
									0	012	0.380	300	Circular
MH-0115-S	2267.775	1673.825	1.600	1.440	1200		Manhole	Adoptable	1	014	0.160	300	Circular
									0	015	0.160	800	Circular
DITCH	2285.213	1679.088	1.600	1.530	1200		Manhole	Adoptable	1	017	0.070	300	Circular
DUMMY	2269.000	1674.114	1.600	1.450	1200		Manhole	Adoptable	1	015	0.150	800	Circular
									0	017	0.150	300	Circular

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Rainfall Methodology	FEH-13		Return Period (years)	Climate Change (%)
Summer CV	0.750		2	0
Winter CV	0.840		5	0
Analysis Speed	Normal		10	0
Skip Steady State	x		30	0
Drain Down Time (mins)	240		100	0
Additional Storage (m³/ha)	20.0		100	40
Storm Durations (mins)	15			
	30			
	60			
	120			
	180			
	240			
	360			
	480			
	600			
	720			
	960			
	1440			
Check Discharge Rate(s)	x			
1 year (l/s)				
30 year (l/s)				
100 year (l/s)				
Check Discharge Volume	x			
100 year 360 minute (m³)				

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Hydro-Brake®

Node	Flap Valve	Online / Offline	Downstream Link	Replaces Downstream Link	Loop to Node	Invert Level (m)	Design Depth (m)	Design Flow (l/s)	Objective	Sump Available	Product Number	Min Outlet Diameter (m)	Min Node Diameter (mm)
MH-0115-S	x	Online				0.160	0.300	2.5	(HE) Minimise upstream storage		CTL-SHE-0085-2500-0300-2500	0.100	1200

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Depth/Area/Inf Area

Node	Base Inf Coefficient (m/hr)	Side Inf Coefficient (m/hr)	Safety Factor	Porosity	Invert Level (m)	Time to half empty (mins)	Depth (m)	Area (m²)	Inf. Area (m²)
MH-0112-S	0.00000	0.00000	2.0	0.30	0.350	260	0.000	100.0	0.0
							0.350	145.0	0.0
							1.349	145.0	0.0
							1.350	0.0	0.0

Lined Soakaway

Node	Base Inf Coefficient (m/hr)	Side Inf Coefficient (m/hr)	Safety Factor	Porosity	Invert Level (m)	Time to half empty (mins)	Ring Diameter (m)	Pit Width (m)	Pit Length (m)	Depth (m)	Inf Depth (m)	Number Required
IC-0108-S	0.00000	0.00000	2.0	0.30	1.050	120	0.150	0.600	8.000			1
IC-0107-S	0.00000	0.00000	2.0	0.30	1.200	80	0.150	0.600	33.000			1
IC-0101-S	0.00000	0.00000	2.0	0.30	1.100	96	0.150	0.600	16.000			1
IC-0109-S	0.00000	0.00000	2.0	0.30	0.900	152	0.150	0.600	10.000			1
IC-0110-S	0.00000	0.00000	2.0	0.30	0.650	204	0.150	0.600	23.000			1
MH-0111-S	0.00000	0.00000	2.0	0.30	0.500	232	0.150	0.300	17.000			1
MH-0113-S	0.00000	0.00000	2.0	0.30	0.280		0.150	0.600	30.000			1
IC-0102-S	0.00000	0.00000	2.0	0.30	0.950	136	0.150	0.600	15.000			1
MH-0114-S	0.00000	0.00000	2.0	0.30	0.380	252	0.150	0.600	33.000			1

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Default Values			Overrides					
Entry Loss (manhole)	0.250		**Link**	**Entry Loss**	**Exit Loss**		**Node**	**Flood Risk (m)**
Exit Loss (manhole)	0.250							
Entry Loss (junction)	0.000							
Exit Loss (junction)	0.000							
Flood Risk (m)	0.300							

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Node Size	
Node Losses	
Link Size	
Minimum Diameter (mm)	150
Link Length	
Maximum Length (m)	100.000
Coordinates	
Accuracy (m)	1.000
Crossings	
Cover Depth	
Minimum Cover Depth (m)	
Maximum Cover Depth (m)	3.000
Backdrops	
Minimum Backdrop Height (m)	
Maximum Backdrop Height (m)	1.500
Full Bore Velocity	
Minimum Full Bore Velocity (m/s)	
Maximum Full Bore Velocity (m/s)	3.000
Proportional Velocity	
Return Period (years)	
Minimum Proportional Velocity (m/s)	0.750
Maximum Proportional Velocity (m/s)	3.000
Surcharged Depth	
Return Period (years)	
Maximum Surcharged Depth (m)	0.100
Flooding	
Return Period (years)	30
Discharge Rates	
1 year (l/s)	
30 year (l/s)	
100 year (l/s)	
Discharge Volume	

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100 year 360 minute (m³)	

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Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 15 minute summer	107.363	30.380
2 year 15 minute winter	75.342	30.380
2 year 30 minute summer	67.853	19.200
2 year 30 minute winter	47.616	19.200
2 year 60 minute summer	45.030	11.900
2 year 60 minute winter	29.917	11.900
2 year 120 minute summer	32.187	8.506
2 year 120 minute winter	21.384	8.506
2 year 180 minute summer	25.939	6.675
2 year 180 minute winter	16.861	6.675
2 year 240 minute summer	20.923	5.529
2 year 240 minute winter	13.901	5.529
2 year 360 minute summer	16.138	4.153
2 year 360 minute winter	10.490	4.153
2 year 480 minute summer	12.642	3.341
2 year 480 minute winter	8.399	3.341
2 year 600 minute summer	10.262	2.807
2 year 600 minute winter	7.011	2.807
2 year 720 minute summer	9.057	2.427
2 year 720 minute winter	6.087	2.427
2 year 960 minute summer	7.302	1.923
2 year 960 minute winter	4.837	1.923
2 year 1440 minute summer	5.152	1.381
2 year 1440 minute winter	3.462	1.381
5 year 15 minute summer	185.652	52.533
5 year 15 minute winter	130.282	52.533
5 year 30 minute summer	118.123	33.425
5 year 30 minute winter	82.893	33.425
5 year 60 minute summer	77.924	20.593

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5 year 60 minute winter	51.771	20.593
5 year 120 minute summer	51.336	13.567
5 year 120 minute winter	34.107	13.567
5 year 180 minute summer	40.093	10.317
5 year 180 minute winter	26.062	10.317
5 year 240 minute summer	31.743	8.389
5 year 240 minute winter	21.089	8.389
5 year 360 minute summer	23.914	6.154
5 year 360 minute winter	15.545	6.154
5 year 480 minute summer	18.493	4.887
5 year 480 minute winter	12.286	4.887
5 year 600 minute summer	14.879	4.070
5 year 600 minute winter	10.166	4.070
5 year 720 minute summer	13.047	3.497
5 year 720 minute winter	8.768	3.497
5 year 960 minute summer	10.419	2.744
5 year 960 minute winter	6.902	2.744
5 year 1440 minute summer	7.251	1.943
5 year 1440 minute winter	4.873	1.943
10 year 15 minute summer	241.655	68.380
10 year 15 minute winter	169.582	68.380
10 year 30 minute summer	155.510	44.004
10 year 30 minute winter	109.130	44.004
10 year 60 minute summer	102.592	27.112
10 year 60 minute winter	68.160	27.112
10 year 120 minute summer	65.874	17.409
10 year 120 minute winter	43.765	17.409
10 year 180 minute summer	51.028	13.131
10 year 180 minute winter	33.170	13.131
10 year 240 minute summer	40.221	10.629
10 year 240 minute winter	26.722	10.629
10 year 360 minute summer	30.131	7.754

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10 year 360 minute winter	19.586	7.754
10 year 480 minute summer	23.226	6.138
10 year 480 minute winter	15.431	6.138
10 year 600 minute summer	18.637	5.098
10 year 600 minute winter	12.734	5.098
10 year 720 minute summer	16.302	4.369
10 year 720 minute winter	10.956	4.369
10 year 960 minute summer	12.955	3.411
10 year 960 minute winter	8.582	3.411
10 year 1440 minute summer	8.949	2.398
10 year 1440 minute winter	6.014	2.398
30 year 15 minute summer	333.564	94.387
30 year 15 minute winter	234.080	94.387
30 year 30 minute summer	217.086	61.428
30 year 30 minute winter	152.341	61.428
30 year 60 minute summer	144.349	38.147
30 year 60 minute winter	95.902	38.147
30 year 120 minute summer	92.213	24.369
30 year 120 minute winter	61.264	24.369
30 year 180 minute summer	71.756	18.465
30 year 180 minute winter	46.643	18.465
30 year 240 minute summer	56.851	15.024
30 year 240 minute winter	37.770	15.024
30 year 360 minute summer	42.942	11.050
30 year 360 minute winter	27.913	11.050
30 year 480 minute summer	33.186	8.770
30 year 480 minute winter	22.048	8.770
30 year 600 minute summer	26.643	7.287
30 year 600 minute winter	18.204	7.287
30 year 720 minute summer	23.297	6.244
30 year 720 minute winter	15.657	6.244
30 year 960 minute summer	18.485	4.867

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30 year 960 minute winter	12.245	4.867
30 year 1440 minute summer	12.684	3.399
30 year 1440 minute winter	8.525	3.399
100 year 15 minute summer	448.069	126.788
100 year 15 minute winter	314.434	126.788
100 year 30 minute summer	293.250	82.980
100 year 30 minute winter	205.790	82.980
100 year 60 minute summer	196.030	51.805
100 year 60 minute winter	130.238	51.805
100 year 120 minute summer	127.092	33.587
100 year 120 minute winter	84.437	33.587
100 year 180 minute summer	99.904	25.709
100 year 180 minute winter	64.940	25.709
100 year 240 minute summer	79.640	21.046
100 year 240 minute winter	52.911	21.046
100 year 360 minute summer	60.486	15.565
100 year 360 minute winter	39.317	15.565
100 year 480 minute summer	46.883	12.390
100 year 480 minute winter	31.148	12.390
100 year 600 minute summer	37.670	10.304
100 year 600 minute winter	25.739	10.304
100 year 720 minute summer	32.932	8.826
100 year 720 minute winter	22.133	8.826
100 year 960 minute summer	26.070	6.865
100 year 960 minute winter	17.269	6.865
100 year 1440 minute summer	17.767	4.762
100 year 1440 minute winter	11.941	4.762
100 year +40% 15 minute summer	627.296	177.503
100 year +40% 15 minute winter	440.208	177.503
100 year +40% 30 minute summer	410.550	116.172
100 year +40% 30 minute winter	288.105	116.172
100 year +40% 60 minute summer	274.442	72.527

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100 year +40% 60 minute winter	182.333	72.527
100 year +40% 120 minute summer	177.929	47.021
100 year +40% 120 minute winter	118.212	47.021
100 year +40% 180 minute summer	139.865	35.992
100 year +40% 180 minute winter	90.916	35.992
100 year +40% 240 minute summer	111.495	29.465
100 year +40% 240 minute winter	74.075	29.465
100 year +40% 360 minute summer	84.680	21.791
100 year +40% 360 minute winter	55.044	21.791
100 year +40% 480 minute summer	65.636	17.346
100 year +40% 480 minute winter	43.607	17.346
100 year +40% 600 minute summer	52.738	14.425
100 year +40% 600 minute winter	36.034	14.425
100 year +40% 720 minute summer	46.105	12.357
100 year +40% 720 minute winter	30.986	12.357
100 year +40% 960 minute summer	36.498	9.611
100 year +40% 960 minute winter	24.177	9.611
100 year +40% 1440 minute summer	24.874	6.667
100 year +40% 1440 minute winter	16.717	6.667

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Results for 2 year Critical Storm Duration. Lowest mass balance: 99.32%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	15	1.125	0.025	1.1	0.0826	0.0000	OK	001	IC-0102-S	1.1	0.497	0.060	0.0319	
15 minute winter	IC-0102-S	14	0.981	0.031	1.7	0.0932	0.0000	OK	002	IC-0103-S	1.7	0.566	0.094	0.0440	
15 minute winter	IC-0103-S	13	0.837	0.037	2.4	0.0108	0.0000	OK	016	MH-0111-S	2.3	0.702	0.129	0.0674	
120 minute winter	MH-0106-S	88	0.484	0.264	5.8	0.2987	0.0000	OK	014	MH-0115-S	4.4	0.239	0.060	0.9153	
15 minute winter	IC-0107-S	14	1.237	0.037	2.3	0.2465	0.0000	OK	006	IC-0108-S	2.3	0.633	0.129	0.0544	
15 minute winter	IC-0108-S	14	1.091	0.041	3.4	0.0779	0.0000	OK	007	IC-0109-S	3.4	0.762	0.160	0.0473	
15 minute winter	IC-0109-S	15	0.949	0.049	4.5	0.1089	0.0000	OK	008	IC-0110-S	4.5	0.825	0.229	0.1120	
15 minute winter	IC-0110-S	15	0.705	0.055	5.1	0.2460	0.0000	OK	009	MH-0111-S	5.1	0.756	0.282	0.0978	
15 minute winter	MH-0111-S	15	0.566	0.066	8.5	0.1903	0.0000	OK	010	MH-0112-S	8.5	0.753	0.102	0.1991	
120 minute winter	MH-0112-S	92	0.482	0.132	5.3	4.4824	0.0000	OK	011	MH-0113-S	4.4	0.511	0.047	0.3896	
120 minute winter	MH-0113-S	88	0.483	0.203	6.5	1.3757	0.0000	OK	013	MH-0106-S	5.8	0.486	0.064	0.5251	
120 minute winter	MH-0114-S	94	0.483	0.103	2.1	0.7724	0.0000	OK	012	MH-0113-S	1.8	0.231	0.024	0.7630	
120 minute winter	MH-0115-S	88	0.484	0.324	4.4	0.3667	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
600 minute summer	DITCH	375	0.107	0.037	2.5	0.0000	0.0000	OK							
30 minute summer	DUMMY	20	0.188	0.038	2.5	0.0427	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	10.6

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Results for 5 year Critical Storm Duration. Lowest mass balance: 99.32%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	14	1.133	0.033	1.9	0.1080	0.0000	OK	001	IC-0102-S	1.9	0.572	0.103	0.0470	
15 minute winter	IC-0102-S	14	0.991	0.041	2.9	0.1225	0.0000	OK	002	IC-0103-S	2.9	0.655	0.161	0.0650	
15 minute winter	IC-0103-S	14	0.849	0.049	4.0	0.0142	0.0000	OK	016	MH-0111-S	4.0	0.814	0.221	0.0992	
120 minute winter	MH-0106-S	96	0.612	0.392	7.4	0.4432	0.0000	SURCHARGED	014	MH-0115-S	5.0	0.262	0.067	0.9471	
15 minute winter	IC-0107-S	14	1.249	0.049	4.0	0.3309	0.0000	OK	006	IC-0108-S	4.0	0.727	0.225	0.0827	
15 minute winter	IC-0108-S	14	1.106	0.056	5.9	0.1059	0.0000	OK	007	IC-0109-S	5.9	0.872	0.279	0.0719	
15 minute winter	IC-0109-S	14	0.966	0.066	7.8	0.1479	0.0000	OK	008	IC-0110-S	7.8	0.936	0.397	0.1718	
15 minute winter	IC-0110-S	14	0.728	0.078	8.9	0.3442	0.0000	OK	009	MH-0111-S	8.9	0.885	0.491	0.1457	
120 minute winter	MH-0111-S	96	0.612	0.112	7.0	0.3198	0.0000	OK	010	MH-0112-S	7.0	0.692	0.084	0.6800	
120 minute winter	MH-0112-S	96	0.611	0.261	8.2	9.5054	0.0000	OK	011	MH-0113-S	5.6	0.500	0.059	0.6594	
120 minute winter	MH-0113-S	96	0.612	0.332	9.7	2.2455	0.0000	SURCHARGED	013	MH-0106-S	7.4	0.492	0.082	0.6348	
120 minute winter	MH-0114-S	96	0.612	0.232	2.9	1.7383	0.0000	OK	012	MH-0113-S	3.0	0.259	0.039	1.3810	
120 minute winter	MH-0115-S	96	0.612	0.452	5.0	0.5110	0.0000	OK	Hydro-Brake®	DUMMY	2.9				
120 minute winter	DITCH	98	0.110	0.040	2.9	0.0000	0.0000	OK							
120 minute winter	DUMMY	98	0.191	0.041	2.9	0.0460	0.0000	OK	017	DITCH	2.9	0.519	0.038	0.0949	33.5

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Results for 10 year Critical Storm Duration. Lowest mass balance: 99.32%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	14	1.137	0.037	2.5	0.1239	0.0000	OK	001	IC-0102-S	2.5	0.617	0.136	0.0573	
15 minute winter	IC-0102-S	14	0.997	0.047	3.8	0.1417	0.0000	OK	002	IC-0103-S	3.8	0.699	0.212	0.0799	
15 minute winter	IC-0103-S	14	0.857	0.057	5.3	0.0166	0.0000	OK	016	MH-0111-S	5.3	0.879	0.293	0.1219	
120 minute winter	MH-0106-S	100	0.715	0.495	5.3	0.5601	0.0000	SURCHARGED	014	MH-0115-S	4.0	0.288	0.054	0.9471	
15 minute winter	IC-0107-S	13	1.257	0.057	5.3	0.3858	0.0000	OK	006	IC-0108-S	5.3	0.774	0.297	0.1024	
15 minute winter	IC-0108-S	14	1.116	0.066	7.8	0.1247	0.0000	OK	007	IC-0109-S	7.8	0.926	0.368	0.0893	
15 minute winter	IC-0109-S	14	0.979	0.079	10.3	0.1749	0.0000	OK	008	IC-0110-S	10.3	0.984	0.524	0.2150	
15 minute winter	IC-0110-S	14	0.744	0.094	11.8	0.4162	0.0000	OK	009	MH-0111-S	11.7	0.955	0.650	0.1784	
120 minute winter	MH-0111-S	100	0.715	0.215	9.3	0.6169	0.0000	OK	010	MH-0112-S	9.3	0.714	0.111	1.1006	
120 minute winter	MH-0112-S	100	0.715	0.365	10.6	14.0119	0.0000	SURCHARGED	011	MH-0113-S	6.5	0.496	0.069	0.6850	
120 minute winter	MH-0113-S	100	0.715	0.435	9.6	2.9458	0.0000	SURCHARGED	013	MH-0106-S	5.3	0.486	0.059	0.6348	
120 minute winter	MH-0114-S	100	0.715	0.335	3.7	2.5121	0.0000	SURCHARGED	012	MH-0113-S	2.5	0.273	0.033	1.5089	
120 minute winter	MH-0115-S	100	0.715	0.555	4.0	0.6278	0.0000	OK	Hydro-Brake®	DUMMY	3.2				
120 minute winter	DITCH	100	0.112	0.042	3.2	0.0000	0.0000	OK							
120 minute winter	DUMMY	100	0.193	0.043	3.2	0.0482	0.0000	OK	017	DITCH	3.2	0.535	0.042	0.1019	42.9

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.32%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	13	1.145	0.045	3.5	0.1477	0.0000	OK	001	IC-0102-S	3.5	0.676	0.191	0.0731	
15 minute winter	IC-0102-S	14	1.006	0.056	5.2	0.1688	0.0000	OK	002	IC-0103-S	5.2	0.756	0.290	0.1011	
120 minute winter	IC-0103-S	114	0.914	0.114	3.5	0.0333	0.0000	OK	016	MH-0111-S	3.5	0.776	0.193	0.3237	
120 minute winter	MH-0106-S	114	0.914	0.694	7.3	0.7846	0.0000	SURCHARGED	014	MH-0115-S	4.4	0.289	0.059	0.9471	
15 minute winter	IC-0107-S	13	1.269	0.069	7.3	0.4661	0.0000	OK	006	IC-0108-S	7.3	0.823	0.410	0.1329	
15 minute winter	IC-0108-S	14	1.131	0.081	10.8	0.1539	0.0000	OK	007	IC-0109-S	10.8	0.977	0.510	0.1172	
15 minute winter	IC-0109-S	14	0.999	0.099	14.3	0.2196	0.0000	OK	008	IC-0110-S	14.3	1.044	0.728	0.2837	
120 minute winter	IC-0110-S	114	0.915	0.265	7.9	1.1768	0.0000	SURCHARGED	009	MH-0111-S	7.9	0.849	0.437	0.2562	
120 minute winter	MH-0111-S	114	0.914	0.414	13.1	1.1865	0.0000	SURCHARGED	010	MH-0112-S	11.5	0.728	0.138	1.2446	
120 minute winter	MH-0112-S	114	0.914	0.564	13.1	22.9111	0.0000	SURCHARGED	011	MH-0113-S	6.8	0.501	0.073	0.6850	
120 minute winter	MH-0113-S	114	0.914	0.634	10.7	4.2892	0.0000	SURCHARGED	013	MH-0106-S	7.3	0.520	0.081	0.6348	
120 minute winter	MH-0114-S	114	0.914	0.534	3.9	3.9999	0.0000	SURCHARGED	012	MH-0113-S	3.3	0.302	0.043	1.5089	
120 minute winter	MH-0115-S	114	0.914	0.754	4.4	0.8523	0.0000	OK	Hydro-Brake®	DUMMY	3.7				
120 minute winter	DITCH	114	0.115	0.045	3.7	0.0000	0.0000	OK							
120 minute winter	DUMMY	114	0.196	0.046	3.7	0.0519	0.0000	OK	017	DITCH	3.7	0.558	0.049	0.1130	60.1

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Results for 100 year Critical Storm Duration. Lowest mass balance: 99.32%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	IC-0101-S	152	1.192	0.092	1.8	0.3049	0.0000	OK	001	IC-0102-S	1.8	0.567	0.098	0.2030	
180 minute winter	IC-0102-S	152	1.192	0.242	2.7	0.7251	0.0000	SURCHARGED	002	IC-0103-S	2.7	0.655	0.150	0.2583	
180 minute winter	IC-0103-S	152	1.192	0.392	3.7	0.1140	0.0000	SURCHARGED	016	MH-0111-S	3.7	0.735	0.204	0.3560	
180 minute winter	MH-0106-S	152	1.191	0.971	4.7	1.0980	0.0000	SURCHARGED	014	MH-0115-S	4.3	0.276	0.059	0.9471	
15 minute winter	IC-0107-S	13	1.284	0.084	9.8	0.5628	0.0000	OK	006	IC-0108-S	9.9	0.875	0.556	0.1839	
180 minute winter	IC-0108-S	148	1.195	0.145	5.5	0.2752	0.0000	OK	007	IC-0109-S	5.5	0.865	0.260	0.1865	
180 minute winter	IC-0109-S	148	1.195	0.295	7.3	0.6554	0.0000	SURCHARGED	008	IC-0110-S	7.3	0.905	0.372	0.3617	
180 minute winter	IC-0110-S	152	1.193	0.543	8.3	2.4074	0.0000	SURCHARGED	009	MH-0111-S	7.0	0.789	0.391	0.2562	
180 minute winter	MH-0111-S	152	1.191	0.691	12.5	1.9805	0.0000	SURCHARGED	010	MH-0112-S	11.5	0.640	0.138	1.2446	
180 minute winter	MH-0112-S	152	1.191	0.841	13.3	35.3300	0.0000	SURCHARGED	011	MH-0113-S	6.1	0.503	0.064	0.6850	
180 minute winter	MH-0113-S	152	1.191	0.911	8.8	6.1642	0.0000	SURCHARGED	013	MH-0106-S	4.7	0.507	0.052	0.6348	
180 minute winter	MH-0114-S	152	1.191	0.811	4.2	6.0757	0.0000	SURCHARGED	012	MH-0113-S	3.0	0.294	0.040	1.5089	
180 minute winter	MH-0115-S	152	1.191	1.031	4.3	1.1655	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.3				
180 minute winter	DITCH	152	0.118	0.048	4.3	0.0000	0.0000	OK							
180 minute winter	DUMMY	152	0.199	0.049	4.3	0.0559	0.0000	OK	017	DITCH	4.3	0.582	0.057	0.1257	82.8

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Results for 100 year +40% Critical Storm Duration. Lowest mass balance: 99.32%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	IC-0101-S	196	1.580	0.480	2.1	1.5917	0.0000	SURCHARGED	001	IC-0102-S	2.1	0.572	0.114	0.2472	
240 minute winter	IC-0102-S	196	1.580	0.630	3.1	1.8876	0.0000	SURCHARGED	002	IC-0103-S	2.9	0.642	0.159	0.2583	
240 minute winter	IC-0103-S	196	1.579	0.779	4.0	0.2268	0.0000	FLOOD RISK	016	MH-0111-S	3.5	0.702	0.195	0.3560	
240 minute winter	MH-0106-S	196	1.578	1.358	5.1	1.5362	0.0000	FLOOD RISK	014	MH-0115-S	5.0	0.280	0.068	0.9471	
240 minute winter	IC-0107-S	196	1.585	0.385	4.3	2.5906	0.0000	SURCHARGED	006	IC-0108-S	4.3	0.751	0.245	0.2649	
240 minute winter	IC-0108-S	196	1.584	0.534	6.4	1.0116	0.0000	SURCHARGED	007	IC-0109-S	6.1	0.866	0.290	0.1873	
240 minute winter	IC-0109-S	196	1.583	0.683	8.1	1.5197	0.0000	FLOOD RISK	008	IC-0110-S	7.3	0.886	0.370	0.3617	
240 minute winter	IC-0110-S	196	1.581	0.931	8.4	4.1301	0.0000	FLOOD RISK	009	MH-0111-S	7.1	0.723	0.395	0.2562	
240 minute winter	MH-0111-S	196	1.579	1.079	12.1	3.0912	0.0000	FLOOD RISK	010	MH-0112-S	11.3	0.569	0.136	1.2446	
240 minute winter	MH-0112-S	196	1.579	1.229	13.4	52.6977	0.0000	FLOOD RISK	011	MH-0113-S	5.2	0.521	0.056	0.6850	
240 minute winter	MH-0113-S	196	1.579	1.299	7.5	8.7864	0.0000	FLOOD RISK	013	MH-0106-S	5.1	0.507	0.057	0.6348	
240 minute winter	MH-0114-S	196	1.579	1.199	4.8	8.9790	0.0000	FLOOD RISK	012	MH-0113-S	2.9	0.293	0.039	1.5089	
240 minute winter	MH-0115-S	196	1.578	1.418	5.0	1.6036	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	5.0				
240 minute winter	DITCH	196	0.122	0.052	5.0	0.0000	0.0000	OK							
240 minute winter	DUMMY	196	0.203	0.053	5.0	0.0604	0.0000	OK	017	DITCH	5.0	0.608	0.066	0.1403	112.1

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Results for 2 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0101-S	15	1.124	0.024	1.0	0.0789	0.0000	OK	001	IC-0102-S	1.0	0.493	0.054	0.0295	
15 minute summer	IC-0102-S	15	0.979	0.029	1.5	0.0878	0.0000	OK	002	IC-0103-S	1.5	0.543	0.083	0.0406	
15 minute summer	IC-0103-S	15	0.835	0.035	2.1	0.0102	0.0000	OK	016	MH-0111-S	2.1	0.680	0.116	0.0623	
15 minute summer	MH-0106-S	23	0.434	0.214	9.2	0.2422	0.0000	OK	014	MH-0115-S	7.3	0.392	0.099	0.8185	
15 minute summer	IC-0107-S	14	1.235	0.035	2.1	0.2351	0.0000	OK	006	IC-0108-S	2.1	0.619	0.118	0.0508	
15 minute summer	IC-0108-S	14	1.089	0.039	3.1	0.0741	0.0000	OK	007	IC-0109-S	3.1	0.744	0.146	0.0441	
15 minute summer	IC-0109-S	15	0.947	0.047	4.1	0.1035	0.0000	OK	008	IC-0110-S	4.1	0.803	0.208	0.1047	
15 minute summer	IC-0110-S	15	0.703	0.053	4.7	0.2346	0.0000	OK	009	MH-0111-S	4.7	0.741	0.259	0.0918	
15 minute summer	MH-0111-S	15	0.563	0.063	7.8	0.1815	0.0000	OK	010	MH-0112-S	7.7	0.733	0.093	0.1863	
15 minute summer	MH-0112-S	24	0.427	0.077	8.7	2.5165	0.0000	OK	011	MH-0113-S	7.8	0.603	0.083	0.2342	
15 minute summer	MH-0113-S	25	0.431	0.151	10.8	1.0195	0.0000	OK	013	MH-0106-S	9.2	0.616	0.101	0.3988	
15 minute summer	MH-0114-S	24	0.428	0.048	2.3	0.3573	0.0000	OK	012	MH-0113-S	2.3	0.425	0.030	0.4417	
15 minute summer	MH-0115-S	21	0.438	0.278	7.3	0.3150	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
15 minute summer	DITCH	60	0.107	0.037	2.5	0.0000	0.0000	OK							
15 minute summer	DUMMY	60	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	8.4

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Results for 2 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	15	1.125	0.025	1.1	0.0826	0.0000	OK	001	IC-0102-S	1.1	0.497	0.060	0.0319	
15 minute winter	IC-0102-S	14	0.981	0.031	1.7	0.0932	0.0000	OK	002	IC-0103-S	1.7	0.566	0.094	0.0440	
15 minute winter	IC-0103-S	13	0.837	0.037	2.4	0.0108	0.0000	OK	016	MH-0111-S	2.3	0.702	0.129	0.0674	
15 minute winter	MH-0106-S	24	0.439	0.219	10.3	0.2481	0.0000	OK	014	MH-0115-S	6.3	0.400	0.085	0.8270	
15 minute winter	IC-0107-S	14	1.237	0.037	2.3	0.2465	0.0000	OK	006	IC-0108-S	2.3	0.633	0.129	0.0544	
15 minute winter	IC-0108-S	14	1.091	0.041	3.4	0.0779	0.0000	OK	007	IC-0109-S	3.4	0.762	0.160	0.0473	
15 minute winter	IC-0109-S	15	0.949	0.049	4.5	0.1089	0.0000	OK	008	IC-0110-S	4.5	0.825	0.229	0.1120	
15 minute winter	IC-0110-S	15	0.705	0.055	5.1	0.2460	0.0000	OK	009	MH-0111-S	5.1	0.756	0.282	0.0978	
15 minute winter	MH-0111-S	15	0.566	0.066	8.5	0.1903	0.0000	OK	010	MH-0112-S	8.5	0.753	0.102	0.1991	
15 minute winter	MH-0112-S	23	0.438	0.088	9.6	2.8924	0.0000	OK	011	MH-0113-S	8.4	0.597	0.089	0.2684	
15 minute winter	MH-0113-S	24	0.443	0.163	12.0	1.0996	0.0000	OK	013	MH-0106-S	10.3	0.645	0.114	0.4245	
15 minute winter	MH-0114-S	23	0.439	0.059	3.1	0.4391	0.0000	OK	012	MH-0113-S	2.6	0.437	0.034	0.5143	
15 minute winter	MH-0115-S	17	0.442	0.282	6.3	0.3187	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
15 minute winter	DITCH	66	0.107	0.037	2.5	0.0000	0.0000	OK							
15 minute winter	DUMMY	66	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	9.2

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Results for 2 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	IC-0101-S	22	1.124	0.024	1.0	0.0789	0.0000	OK	001	IC-0102-S	1.0	0.482	0.054	0.0295	
30 minute summer	IC-0102-S	22	0.979	0.029	1.5	0.0877	0.0000	OK	002	IC-0103-S	1.5	0.543	0.083	0.0405	
30 minute summer	IC-0103-S	22	0.835	0.035	2.1	0.0102	0.0000	OK	016	MH-0111-S	2.1	0.680	0.116	0.0622	
30 minute summer	MH-0106-S	33	0.453	0.233	9.3	0.2631	0.0000	OK	014	MH-0115-S	6.2	0.303	0.084	0.8667	
30 minute summer	IC-0107-S	21	1.235	0.035	2.1	0.2344	0.0000	OK	006	IC-0108-S	2.1	0.618	0.117	0.0506	
30 minute summer	IC-0108-S	22	1.089	0.039	3.1	0.0740	0.0000	OK	007	IC-0109-S	3.1	0.743	0.145	0.0441	
30 minute summer	IC-0109-S	22	0.946	0.046	4.1	0.1034	0.0000	OK	008	IC-0110-S	4.1	0.803	0.208	0.1044	
30 minute summer	IC-0110-S	22	0.703	0.053	4.7	0.2338	0.0000	OK	009	MH-0111-S	4.6	0.740	0.257	0.0913	
30 minute summer	MH-0111-S	22	0.563	0.063	7.7	0.1808	0.0000	OK	010	MH-0112-S	7.7	0.732	0.092	0.1852	
30 minute summer	MH-0112-S	34	0.446	0.096	8.7	3.1686	0.0000	OK	011	MH-0113-S	8.2	0.586	0.087	0.2846	
30 minute summer	MH-0113-S	35	0.447	0.167	11.0	1.1291	0.0000	OK	013	MH-0106-S	9.3	0.615	0.103	0.4451	
30 minute summer	MH-0114-S	34	0.447	0.067	3.1	0.5032	0.0000	OK	012	MH-0113-S	2.3	0.362	0.030	0.5410	
30 minute summer	MH-0115-S	31	0.456	0.296	6.2	0.3351	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
30 minute summer	DITCH	82	0.107	0.037	2.5	0.0000	0.0000	OK							
30 minute summer	DUMMY	20	0.188	0.038	2.5	0.0427	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	10.6

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Results for 2 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	IC-0101-S	22	1.124	0.024	1.0	0.0789	0.0000	OK	001	IC-0102-S	1.0	0.480	0.054	0.0295	
30 minute winter	IC-0102-S	22	0.979	0.029	1.5	0.0877	0.0000	OK	002	IC-0103-S	1.5	0.546	0.083	0.0405	
30 minute winter	IC-0103-S	22	0.835	0.035	2.1	0.0102	0.0000	OK	016	MH-0111-S	2.1	0.680	0.116	0.0622	
30 minute winter	MH-0106-S	30	0.463	0.243	8.6	0.2749	0.0000	OK	014	MH-0115-S	5.8	0.317	0.078	0.8849	
30 minute winter	IC-0107-S	21	1.236	0.036	2.2	0.2406	0.0000	OK	006	IC-0108-S	2.2	0.628	0.123	0.0522	
30 minute winter	IC-0108-S	22	1.090	0.040	3.2	0.0753	0.0000	OK	007	IC-0109-S	3.2	0.752	0.150	0.0450	
30 minute winter	IC-0109-S	22	0.947	0.047	4.2	0.1048	0.0000	OK	008	IC-0110-S	4.2	0.808	0.213	0.1063	
30 minute winter	IC-0110-S	22	0.703	0.053	4.8	0.2370	0.0000	OK	009	MH-0111-S	4.7	0.746	0.263	0.0926	
30 minute winter	MH-0111-S	22	0.564	0.064	7.8	0.1822	0.0000	OK	010	MH-0112-S	7.8	0.735	0.093	0.1873	
30 minute winter	MH-0112-S	33	0.458	0.108	10.8	3.5910	0.0000	OK	011	MH-0113-S	7.5	0.587	0.080	0.3219	
30 minute winter	MH-0113-S	34	0.459	0.179	11.1	1.2092	0.0000	OK	013	MH-0106-S	8.6	0.600	0.095	0.4711	
30 minute winter	MH-0114-S	33	0.459	0.079	4.0	0.5923	0.0000	OK	012	MH-0113-S	-2.6	0.364	-0.034	0.6211	
30 minute winter	MH-0115-S	30	0.467	0.307	5.8	0.3471	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
30 minute winter	DITCH	89	0.107	0.037	2.5	0.0000	0.0000	OK							
30 minute winter	DUMMY	88	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	11.7

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Results for 2 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	IC-0101-S	35	1.122	0.022	0.9	0.0725	0.0000	OK	001	IC-0102-S	0.8	0.460	0.046	0.0259	
60 minute summer	IC-0102-S	36	0.977	0.027	1.2	0.0799	0.0000	OK	002	IC-0103-S	1.2	0.515	0.069	0.0353	
60 minute summer	IC-0103-S	37	0.832	0.032	1.7	0.0092	0.0000	OK	016	MH-0111-S	1.7	0.644	0.096	0.0543	
60 minute summer	MH-0106-S	55	0.451	0.231	7.1	0.2610	0.0000	OK	014	MH-0115-S	5.5	0.254	0.074	0.8609	
60 minute summer	IC-0107-S	36	1.232	0.032	1.8	0.2166	0.0000	OK	006	IC-0108-S	1.8	0.595	0.100	0.0450	
60 minute summer	IC-0108-S	36	1.086	0.036	2.6	0.0678	0.0000	OK	007	IC-0109-S	2.6	0.712	0.123	0.0390	
60 minute summer	IC-0109-S	36	0.943	0.043	3.5	0.0948	0.0000	OK	008	IC-0110-S	3.5	0.774	0.176	0.0918	
60 minute summer	IC-0110-S	37	0.698	0.048	4.0	0.2126	0.0000	OK	009	MH-0111-S	3.9	0.707	0.217	0.0805	
60 minute summer	MH-0111-S	37	0.558	0.058	6.4	0.1651	0.0000	OK	010	MH-0112-S	6.4	0.695	0.077	0.1630	
60 minute summer	MH-0112-S	50	0.449	0.099	8.6	3.3046	0.0000	OK	011	MH-0113-S	7.1	0.549	0.076	0.2985	
60 minute summer	MH-0113-S	49	0.452	0.172	9.3	1.1671	0.0000	OK	013	MH-0106-S	7.1	0.541	0.078	0.4499	
60 minute summer	MH-0114-S	52	0.451	0.071	3.3	0.5322	0.0000	OK	012	MH-0113-S	3.1	0.295	0.040	0.5748	
60 minute summer	MH-0115-S	55	0.451	0.291	5.5	0.3292	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
60 minute summer	DITCH	108	0.107	0.037	2.5	0.0000	0.0000	OK							
60 minute summer	DUMMY	108	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	13.1

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Results for 2 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	IC-0101-S	37	1.121	0.021	0.8	0.0708	0.0000	OK	001	IC-0102-S	0.8	0.448	0.044	0.0252	
60 minute winter	IC-0102-S	37	0.976	0.026	1.2	0.0787	0.0000	OK	002	IC-0103-S	1.2	0.518	0.067	0.0340	
60 minute winter	IC-0103-S	36	0.831	0.031	1.7	0.0089	0.0000	OK	016	MH-0111-S	1.6	0.633	0.090	0.0518	
60 minute winter	MH-0106-S	56	0.471	0.251	7.7	0.2834	0.0000	OK	014	MH-0115-S	4.7	0.280	0.064	0.8964	
60 minute winter	IC-0107-S	37	1.230	0.030	1.6	0.2048	0.0000	OK	006	IC-0108-S	1.6	0.574	0.090	0.0419	
60 minute winter	IC-0108-S	37	1.084	0.034	2.4	0.0649	0.0000	OK	007	IC-0109-S	2.4	0.694	0.113	0.0368	
60 minute winter	IC-0109-S	37	0.941	0.041	3.2	0.0911	0.0000	OK	008	IC-0110-S	3.2	0.758	0.163	0.0865	
60 minute winter	IC-0110-S	36	0.696	0.046	3.7	0.2029	0.0000	OK	009	MH-0111-S	3.6	0.688	0.200	0.0762	
60 minute winter	MH-0111-S	37	0.556	0.056	6.0	0.1595	0.0000	OK	010	MH-0112-S	6.0	0.682	0.072	0.1553	
60 minute winter	MH-0112-S	57	0.467	0.117	9.5	3.9351	0.0000	OK	011	MH-0113-S	7.1	0.540	0.076	0.3479	
60 minute winter	MH-0113-S	58	0.469	0.189	8.7	1.2778	0.0000	OK	013	MH-0106-S	7.7	0.534	0.085	0.4928	
60 minute winter	MH-0114-S	50	0.468	0.088	2.7	0.6605	0.0000	OK	012	MH-0113-S	2.8	0.269	0.037	0.6773	
60 minute winter	MH-0115-S	49	0.472	0.312	4.7	0.3526	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
60 minute winter	DITCH	118	0.107	0.037	2.5	0.0000	0.0000	OK							
60 minute winter	DUMMY	118	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	14.8

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Results for 2 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	IC-0101-S	68	1.120	0.020	0.7	0.0665	0.0000	OK	001	IC-0102-S	0.7	0.432	0.038	0.0234	
120 minute summer	IC-0102-S	66	0.975	0.025	1.1	0.0753	0.0000	OK	002	IC-0103-S	1.1	0.502	0.061	0.0320	
120 minute summer	IC-0103-S	66	0.829	0.029	1.5	0.0086	0.0000	OK	016	MH-0111-S	1.5	0.616	0.082	0.0486	
120 minute summer	MH-0106-S	84	0.469	0.249	6.6	0.2818	0.0000	OK	014	MH-0115-S	4.7	0.238	0.064	0.8943	
120 minute summer	IC-0107-S	66	1.229	0.029	1.5	0.1980	0.0000	OK	006	IC-0108-S	1.5	0.567	0.084	0.0395	
120 minute summer	IC-0108-S	66	1.083	0.033	2.2	0.0618	0.0000	OK	007	IC-0109-S	2.2	0.680	0.103	0.0342	
120 minute summer	IC-0109-S	68	0.939	0.039	2.9	0.0863	0.0000	OK	008	IC-0110-S	2.9	0.737	0.147	0.0805	
120 minute summer	IC-0110-S	68	0.693	0.043	3.3	0.1929	0.0000	OK	009	MH-0111-S	3.3	0.670	0.182	0.0714	
120 minute summer	MH-0111-S	68	0.553	0.053	5.4	0.1521	0.0000	OK	010	MH-0112-S	5.5	0.664	0.065	0.1451	
120 minute summer	MH-0112-S	90	0.466	0.116	6.2	3.8854	0.0000	OK	011	MH-0113-S	5.3	0.503	0.056	0.3452	
120 minute summer	MH-0113-S	86	0.468	0.188	7.4	1.2689	0.0000	OK	013	MH-0106-S	6.6	0.488	0.073	0.4906	
120 minute summer	MH-0114-S	92	0.466	0.086	1.7	0.6442	0.0000	OK	012	MH-0113-S	2.5	0.238	0.033	0.6727	
120 minute summer	MH-0115-S	84	0.470	0.310	4.7	0.3508	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
120 minute summer	DITCH	162	0.107	0.037	2.5	0.0000	0.0000	OK							
120 minute summer	DUMMY	162	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	18.8

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Results for 2 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	IC-0101-S	68	1.119	0.019	0.6	0.0617	0.0000	OK	001	IC-0102-S	0.6	0.411	0.033	0.0206	
120 minute winter	IC-0102-S	70	0.973	0.023	0.9	0.0685	0.0000	OK	002	IC-0103-S	0.9	0.477	0.050	0.0277	
120 minute winter	IC-0103-S	70	0.826	0.026	1.2	0.0077	0.0000	OK	016	MH-0111-S	1.2	0.579	0.066	0.0419	
120 minute winter	MH-0106-S	88	0.484	0.264	5.8	0.2987	0.0000	OK	014	MH-0115-S	4.4	0.239	0.060	0.9153	
120 minute winter	IC-0107-S	68	1.226	0.026	1.2	0.1781	0.0000	OK	006	IC-0108-S	1.2	0.529	0.068	0.0341	
120 minute winter	IC-0108-S	68	1.080	0.030	1.8	0.0560	0.0000	OK	007	IC-0109-S	1.8	0.642	0.085	0.0299	
120 minute winter	IC-0109-S	68	0.935	0.035	2.4	0.0787	0.0000	OK	008	IC-0110-S	2.4	0.704	0.122	0.0700	
120 minute winter	IC-0110-S	68	0.689	0.039	2.7	0.1737	0.0000	OK	009	MH-0111-S	2.7	0.634	0.150	0.0621	
120 minute winter	MH-0111-S	70	0.548	0.048	4.5	0.1380	0.0000	OK	010	MH-0112-S	4.5	0.629	0.054	0.1704	
120 minute winter	MH-0112-S	92	0.482	0.132	5.3	4.4824	0.0000	OK	011	MH-0113-S	4.4	0.511	0.047	0.3896	
120 minute winter	MH-0113-S	88	0.483	0.203	6.5	1.3757	0.0000	OK	013	MH-0106-S	5.8	0.486	0.064	0.5251	
120 minute winter	MH-0114-S	94	0.483	0.103	2.1	0.7724	0.0000	OK	012	MH-0113-S	1.8	0.231	0.024	0.7630	
120 minute winter	MH-0115-S	88	0.484	0.324	4.4	0.3667	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
120 minute winter	DITCH	174	0.107	0.037	2.5	0.0000	0.0000	OK							
120 minute winter	DUMMY	174	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	21.1

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Results for 2 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	IC-0101-S	100	1.119	0.019	0.6	0.0617	0.0000	OK	001	IC-0102-S	0.6	0.411	0.033	0.0206	
180 minute summer	IC-0102-S	100	0.973	0.023	0.9	0.0685	0.0000	OK	002	IC-0103-S	0.9	0.477	0.050	0.0277	
180 minute summer	IC-0103-S	100	0.826	0.026	1.2	0.0077	0.0000	OK	016	MH-0111-S	1.2	0.579	0.066	0.0419	
180 minute summer	MH-0106-S	120	0.469	0.249	6.7	0.2812	0.0000	OK	014	MH-0115-S	4.2	0.235	0.057	0.8934	
180 minute summer	IC-0107-S	100	1.226	0.026	1.2	0.1781	0.0000	OK	006	IC-0108-S	1.2	0.529	0.068	0.0341	
180 minute summer	IC-0108-S	100	1.080	0.030	1.8	0.0561	0.0000	OK	007	IC-0109-S	1.8	0.642	0.085	0.0299	
180 minute summer	IC-0109-S	100	0.935	0.035	2.4	0.0787	0.0000	OK	008	IC-0110-S	2.4	0.704	0.122	0.0701	
180 minute summer	IC-0110-S	100	0.689	0.039	2.7	0.1737	0.0000	OK	009	MH-0111-S	2.7	0.634	0.150	0.0621	
180 minute summer	MH-0111-S	100	0.548	0.048	4.5	0.1381	0.0000	OK	010	MH-0112-S	4.5	0.629	0.054	0.1332	
180 minute summer	MH-0112-S	120	0.464	0.114	5.1	3.8272	0.0000	OK	011	MH-0113-S	4.2	0.512	0.045	0.3446	
180 minute summer	MH-0113-S	124	0.467	0.187	6.2	1.2685	0.0000	OK	013	MH-0106-S	6.7	0.477	0.074	0.4887	
180 minute summer	MH-0114-S	116	0.465	0.085	1.4	0.6386	0.0000	OK	012	MH-0113-S	2.0	0.223	0.027	0.6660	
180 minute summer	MH-0115-S	120	0.470	0.310	4.2	0.3504	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
180 minute summer	DITCH	208	0.107	0.037	2.5	0.0000	0.0000	OK							
180 minute summer	DUMMY	208	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0850	22.4

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Results for 2 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	IC-0101-S	100	1.117	0.017	0.5	0.0567	0.0000	OK	001	IC-0102-S	0.5	0.398	0.027	0.0177	
180 minute winter	IC-0102-S	100	0.970	0.020	0.7	0.0607	0.0000	OK	002	IC-0103-S	0.7	0.432	0.039	0.0238	
180 minute winter	IC-0103-S	100	0.824	0.024	1.0	0.0070	0.0000	OK	016	MH-0111-S	1.0	0.550	0.055	0.0368	
180 minute winter	MH-0106-S	132	0.475	0.255	5.3	0.2888	0.0000	OK	014	MH-0115-S	3.6	0.246	0.049	0.9033	
180 minute winter	IC-0107-S	96	1.224	0.024	1.0	0.1601	0.0000	OK	006	IC-0108-S	1.0	0.495	0.054	0.0293	
180 minute winter	IC-0108-S	96	1.077	0.027	1.5	0.0505	0.0000	OK	007	IC-0109-S	1.5	0.602	0.069	0.0257	
180 minute winter	IC-0109-S	100	0.932	0.032	2.0	0.0710	0.0000	OK	008	IC-0110-S	2.0	0.658	0.100	0.0612	
180 minute winter	IC-0110-S	100	0.686	0.036	2.3	0.1590	0.0000	OK	009	MH-0111-S	2.3	0.602	0.126	0.0548	
180 minute winter	MH-0111-S	100	0.544	0.044	3.8	0.1263	0.0000	OK	010	MH-0112-S	3.8	0.597	0.045	0.1516	
180 minute winter	MH-0112-S	132	0.473	0.123	4.5	4.1536	0.0000	OK	011	MH-0113-S	5.2	0.500	0.055	0.3679	
180 minute winter	MH-0113-S	132	0.475	0.195	7.1	1.3170	0.0000	OK	013	MH-0106-S	5.3	0.479	0.058	0.5060	
180 minute winter	MH-0114-S	136	0.474	0.094	1.5	0.7058	0.0000	OK	012	MH-0113-S	1.5	0.223	0.020	0.7161	
180 minute winter	MH-0115-S	132	0.476	0.316	3.6	0.3570	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
180 minute winter	DITCH	80	0.107	0.037	2.5	0.0000	0.0000	OK							
180 minute winter	DUMMY	80	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	24.8

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Results for 2 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	IC-0101-S	132	1.117	0.017	0.5	0.0567	0.0000	OK	001	IC-0102-S	0.5	0.394	0.027	0.0186	
240 minute summer	IC-0102-S	128	0.972	0.022	0.8	0.0646	0.0000	OK	002	IC-0103-S	0.8	0.456	0.045	0.0258	
240 minute summer	IC-0103-S	128	0.825	0.025	1.1	0.0074	0.0000	OK	016	MH-0111-S	1.1	0.565	0.061	0.0394	
240 minute summer	MH-0106-S	152	0.457	0.237	5.5	0.2682	0.0000	OK	014	MH-0115-S	4.0	0.233	0.054	0.8748	
240 minute summer	IC-0107-S	132	1.224	0.024	1.0	0.1629	0.0000	OK	006	IC-0108-S	1.0	0.502	0.056	0.0300	
240 minute summer	IC-0108-S	132	1.077	0.027	1.5	0.0513	0.0000	OK	007	IC-0109-S	1.5	0.609	0.071	0.0263	
240 minute summer	IC-0109-S	132	0.932	0.032	2.0	0.0719	0.0000	OK	008	IC-0110-S	2.0	0.663	0.102	0.0621	
240 minute summer	IC-0110-S	132	0.686	0.036	2.3	0.1603	0.0000	OK	009	MH-0111-S	2.3	0.603	0.128	0.0559	
240 minute summer	MH-0111-S	128	0.545	0.045	3.9	0.1285	0.0000	OK	010	MH-0112-S	3.9	0.603	0.047	0.1141	
240 minute summer	MH-0112-S	156	0.453	0.103	4.5	3.4230	0.0000	OK	011	MH-0113-S	4.8	0.497	0.051	0.3141	
240 minute summer	MH-0113-S	156	0.457	0.177	6.9	1.1974	0.0000	OK	013	MH-0106-S	5.5	0.479	0.060	0.4638	
240 minute summer	MH-0114-S	156	0.452	0.072	2.0	0.5406	0.0000	OK	012	MH-0113-S	1.8	0.214	0.024	0.6027	
240 minute summer	MH-0115-S	152	0.458	0.298	4.0	0.3372	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
240 minute summer	DITCH	116	0.107	0.037	2.5	0.0000	0.0000	OK							
240 minute summer	DUMMY	116	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	24.3

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Results for 2 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	IC-0101-S	132	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.368	0.022	0.0155	
240 minute winter	IC-0102-S	136	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.424	0.033	0.0208	
240 minute winter	IC-0103-S	136	0.822	0.022	0.8	0.0063	0.0000	OK	016	MH-0111-S	0.8	0.515	0.044	0.0314	
240 minute winter	MH-0106-S	168	0.458	0.238	5.8	0.2696	0.0000	OK	014	MH-0115-S	4.1	0.233	0.055	0.8768	
240 minute winter	IC-0107-S	132	1.222	0.022	0.8	0.1462	0.0000	OK	006	IC-0108-S	0.8	0.470	0.045	0.0257	
240 minute winter	IC-0108-S	132	1.074	0.024	1.2	0.0460	0.0000	OK	007	IC-0109-S	1.2	0.570	0.057	0.0225	
240 minute winter	IC-0109-S	132	0.929	0.029	1.6	0.0644	0.0000	OK	008	IC-0110-S	1.6	0.626	0.082	0.0526	
240 minute winter	IC-0110-S	136	0.682	0.032	1.8	0.1418	0.0000	OK	009	MH-0111-S	1.8	0.561	0.100	0.0468	
240 minute winter	MH-0111-S	136	0.539	0.039	3.0	0.1131	0.0000	OK	010	MH-0112-S	3.0	0.559	0.036	0.1107	
240 minute winter	MH-0112-S	164	0.455	0.105	3.4	3.5066	0.0000	OK	011	MH-0113-S	4.6	0.494	0.048	0.3178	
240 minute winter	MH-0113-S	172	0.458	0.178	6.2	1.2036	0.0000	OK	013	MH-0106-S	5.8	0.472	0.064	0.4666	
240 minute winter	MH-0114-S	160	0.455	0.075	1.2	0.5648	0.0000	OK	012	MH-0113-S	1.5	0.203	0.019	0.6101	
240 minute winter	MH-0115-S	168	0.459	0.299	4.1	0.3381	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
240 minute winter	DITCH	252	0.107	0.037	2.5	0.0000	0.0000	OK							
240 minute winter	DUMMY	252	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	27.5

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Results for 2 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	IC-0101-S	192	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.363	0.022	0.0155	
360 minute summer	IC-0102-S	192	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.424	0.033	0.0208	
360 minute summer	IC-0103-S	192	0.822	0.022	0.8	0.0063	0.0000	OK	016	MH-0111-S	0.8	0.515	0.044	0.0314	
360 minute summer	MH-0106-S	224	0.436	0.216	5.5	0.2447	0.0000	OK	014	MH-0115-S	4.5	0.174	0.061	0.8237	
360 minute summer	IC-0107-S	192	1.222	0.022	0.8	0.1462	0.0000	OK	006	IC-0108-S	0.8	0.470	0.045	0.0257	
360 minute summer	IC-0108-S	192	1.074	0.024	1.2	0.0460	0.0000	OK	007	IC-0109-S	1.2	0.570	0.057	0.0225	
360 minute summer	IC-0109-S	192	0.929	0.029	1.6	0.0644	0.0000	OK	008	IC-0110-S	1.6	0.626	0.082	0.0525	
360 minute summer	IC-0110-S	192	0.682	0.032	1.8	0.1418	0.0000	OK	009	MH-0111-S	1.8	0.561	0.100	0.0468	
360 minute summer	MH-0111-S	192	0.539	0.039	3.0	0.1130	0.0000	OK	010	MH-0112-S	3.0	0.559	0.036	0.0948	
360 minute summer	MH-0112-S	216	0.433	0.083	3.4	2.7337	0.0000	OK	011	MH-0113-S	3.5	0.497	0.037	0.2543	
360 minute summer	MH-0113-S	224	0.434	0.154	4.7	1.0429	0.0000	OK	013	MH-0106-S	5.5	0.463	0.060	0.4095	
360 minute summer	MH-0114-S	216	0.435	0.055	0.9	0.4084	0.0000	OK	012	MH-0113-S	1.1	0.252	0.015	0.4790	
360 minute summer	MH-0115-S	224	0.438	0.278	4.5	0.3140	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
360 minute summer	DITCH	296	0.107	0.037	2.5	0.0000	0.0000	OK							
360 minute summer	DUMMY	296	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	26.2

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Results for 2 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	IC-0101-S	192	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0121	
360 minute winter	IC-0102-S	192	0.966	0.016	0.4	0.0465	0.0000	OK	002	IC-0103-S	0.4	0.359	0.022	0.0164	
360 minute winter	IC-0103-S	192	0.819	0.019	0.6	0.0055	0.0000	OK	016	MH-0111-S	0.6	0.472	0.033	0.0257	
360 minute winter	MH-0106-S	224	0.421	0.201	4.8	0.2268	0.0000	OK	014	MH-0115-S	4.2	0.178	0.057	0.7760	
360 minute winter	IC-0107-S	200	1.219	0.019	0.6	0.1274	0.0000	OK	006	IC-0108-S	0.6	0.431	0.034	0.0210	
360 minute winter	IC-0108-S	200	1.071	0.021	0.9	0.0400	0.0000	OK	007	IC-0109-S	0.9	0.524	0.043	0.0184	
360 minute winter	IC-0109-S	200	0.925	0.025	1.2	0.0560	0.0000	OK	008	IC-0110-S	1.2	0.567	0.061	0.0435	
360 minute winter	IC-0110-S	200	0.678	0.028	1.4	0.1253	0.0000	OK	009	MH-0111-S	1.4	0.523	0.078	0.0391	
360 minute winter	MH-0111-S	200	0.535	0.035	2.3	0.0994	0.0000	OK	010	MH-0112-S	2.3	0.517	0.028	0.0787	
360 minute winter	MH-0112-S	240	0.417	0.067	2.6	2.1802	0.0000	OK	011	MH-0113-S	4.7	0.469	0.050	0.2066	
360 minute winter	MH-0113-S	232	0.417	0.137	6.3	0.9298	0.0000	OK	013	MH-0106-S	4.8	0.463	0.053	0.3661	
360 minute winter	MH-0114-S	240	0.418	0.038	1.0	0.2840	0.0000	OK	012	MH-0113-S	1.6	0.197	0.022	0.3842	
360 minute winter	MH-0115-S	224	0.422	0.262	4.2	0.2968	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
360 minute winter	DITCH	176	0.107	0.037	2.5	0.0000	0.0000	OK							
360 minute winter	DUMMY	296	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0850	30.6

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Results for 2 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	IC-0101-S	256	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0131	
480 minute summer	IC-0102-S	248	0.967	0.017	0.5	0.0510	0.0000	OK	002	IC-0103-S	0.5	0.391	0.027	0.0182	
480 minute summer	IC-0103-S	248	0.820	0.020	0.7	0.0058	0.0000	OK	016	MH-0111-S	0.7	0.489	0.037	0.0279	
480 minute summer	MH-0106-S	288	0.407	0.187	4.4	0.2115	0.0000	OK	014	MH-0115-S	3.5	0.174	0.047	0.7311	
480 minute summer	IC-0107-S	248	1.220	0.020	0.7	0.1351	0.0000	OK	006	IC-0108-S	0.7	0.454	0.038	0.0225	
480 minute summer	IC-0108-S	248	1.072	0.022	1.0	0.0415	0.0000	OK	007	IC-0109-S	1.0	0.540	0.046	0.0192	
480 minute summer	IC-0109-S	248	0.926	0.026	1.3	0.0574	0.0000	OK	008	IC-0110-S	1.3	0.579	0.064	0.0448	
480 minute summer	IC-0110-S	248	0.679	0.029	1.5	0.1274	0.0000	OK	009	MH-0111-S	1.4	0.527	0.080	0.0402	
480 minute summer	MH-0111-S	248	0.535	0.035	2.4	0.1015	0.0000	OK	010	MH-0112-S	2.4	0.523	0.029	0.0811	
480 minute summer	MH-0112-S	272	0.403	0.053	2.7	1.6971	0.0000	OK	011	MH-0113-S	3.6	0.486	0.038	0.1728	
480 minute summer	MH-0113-S	280	0.404	0.124	4.5	0.8391	0.0000	OK	013	MH-0106-S	4.4	0.463	0.048	0.3301	
480 minute summer	MH-0114-S	280	0.405	0.025	0.7	0.1848	0.0000	OK	012	MH-0113-S	0.9	0.252	0.012	0.3237	
480 minute summer	MH-0115-S	288	0.409	0.249	3.5	0.2818	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
480 minute summer	DITCH	336	0.107	0.037	2.5	0.0000	0.0000	OK							
480 minute summer	DUMMY	336	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	26.8

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Results for 2 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	IC-0101-S	216	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.343	0.011	0.0096	
480 minute winter	IC-0102-S	224	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
480 minute winter	IC-0103-S	224	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
480 minute winter	MH-0106-S	288	0.319	0.099	2.7	0.1122	0.0000	OK	014	MH-0115-S	2.6	0.173	0.035	0.3915	
480 minute winter	IC-0107-S	256	1.217	0.017	0.5	0.1169	0.0000	OK	006	IC-0108-S	0.5	0.418	0.028	0.0180	
480 minute winter	IC-0108-S	264	1.069	0.019	0.7	0.0355	0.0000	OK	007	IC-0109-S	0.7	0.492	0.033	0.0152	
480 minute winter	IC-0109-S	264	0.922	0.022	0.9	0.0487	0.0000	OK	008	IC-0110-S	0.9	0.531	0.046	0.0349	
480 minute winter	IC-0110-S	264	0.674	0.024	1.0	0.1064	0.0000	OK	009	MH-0111-S	1.0	0.477	0.055	0.0306	
480 minute winter	MH-0111-S	264	0.529	0.029	1.6	0.0834	0.0000	OK	010	MH-0112-S	1.6	0.464	0.019	0.0609	
480 minute winter	MH-0112-S	264	0.379	0.029	1.8	0.9208	0.0000	OK	011	MH-0113-S	1.8	0.453	0.019	0.0421	
480 minute winter	MH-0113-S	280	0.319	0.039	2.6	0.2631	0.0000	OK	013	MH-0106-S	2.7	0.467	0.029	0.1146	
480 minute winter	MH-0114-S	248	0.397	0.017	0.5	0.1309	0.0000	OK	012	MH-0113-S	0.5	0.252	0.007	0.0746	
480 minute winter	MH-0115-S	288	0.319	0.159	2.6	0.1798	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
480 minute winter	DITCH	264	0.107	0.037	2.5	0.0000	0.0000	OK							
480 minute winter	DUMMY	264	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	30.5

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Results for 2 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	IC-0101-S	315	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0121	
600 minute summer	IC-0102-S	315	0.966	0.016	0.4	0.0465	0.0000	OK	002	IC-0103-S	0.4	0.386	0.022	0.0153	
600 minute summer	IC-0103-S	315	0.817	0.017	0.5	0.0050	0.0000	OK	016	MH-0111-S	0.5	0.447	0.028	0.0226	
600 minute summer	MH-0106-S	345	0.374	0.154	5.3	0.1739	0.0000	OK	014	MH-0115-S	4.1	0.170	0.056	0.6103	
600 minute summer	IC-0107-S	315	1.217	0.017	0.5	0.1169	0.0000	OK	006	IC-0108-S	0.5	0.398	0.028	0.0189	
600 minute summer	IC-0108-S	315	1.070	0.020	0.8	0.0378	0.0000	OK	007	IC-0109-S	0.8	0.499	0.038	0.0171	
600 minute summer	IC-0109-S	315	0.924	0.024	1.1	0.0537	0.0000	OK	008	IC-0110-S	1.1	0.566	0.056	0.0399	
600 minute summer	IC-0110-S	315	0.676	0.026	1.2	0.1163	0.0000	OK	009	MH-0111-S	1.2	0.495	0.067	0.0354	
600 minute summer	MH-0111-S	315	0.532	0.032	2.0	0.0930	0.0000	OK	010	MH-0112-S	2.0	0.496	0.024	0.0713	
600 minute summer	MH-0112-S	315	0.382	0.032	2.3	1.0285	0.0000	OK	011	MH-0113-S	2.3	0.470	0.024	0.1007	
600 minute summer	MH-0113-S	345	0.369	0.089	3.2	0.5996	0.0000	OK	013	MH-0106-S	5.3	0.470	0.059	0.2422	
600 minute summer	MH-0114-S	315	0.399	0.019	0.6	0.1429	0.0000	OK	012	MH-0113-S	0.6	0.252	0.008	0.2015	
600 minute summer	MH-0115-S	345	0.376	0.216	4.1	0.2446	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
600 minute summer	DITCH	375	0.107	0.037	2.5	0.0000	0.0000	OK							
600 minute summer	DUMMY	375	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	27.9

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Results for 2 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	IC-0101-S	285	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.327	0.011	0.0096	
600 minute winter	IC-0102-S	285	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
600 minute winter	IC-0103-S	285	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
600 minute winter	MH-0106-S	315	0.283	0.063	2.4	0.0709	0.0000	OK	014	MH-0115-S	2.4	0.194	0.032	0.2530	
600 minute winter	IC-0107-S	315	1.216	0.016	0.4	0.1052	0.0000	OK	006	IC-0108-S	0.4	0.382	0.023	0.0158	
600 minute winter	IC-0108-S	300	1.067	0.017	0.6	0.0330	0.0000	OK	007	IC-0109-S	0.6	0.463	0.028	0.0138	
600 minute winter	IC-0109-S	300	0.921	0.021	0.8	0.0460	0.0000	OK	008	IC-0110-S	0.8	0.509	0.041	0.0323	
600 minute winter	IC-0110-S	315	0.673	0.023	0.9	0.1011	0.0000	OK	009	MH-0111-S	0.9	0.455	0.050	0.0289	
600 minute winter	MH-0111-S	315	0.528	0.028	1.5	0.0809	0.0000	OK	010	MH-0112-S	1.5	0.456	0.018	0.0582	
600 minute winter	MH-0112-S	345	0.378	0.028	1.7	0.8986	0.0000	OK	011	MH-0113-S	1.7	0.455	0.018	0.0369	
600 minute winter	MH-0113-S	315	0.313	0.033	2.4	0.2266	0.0000	OK	013	MH-0106-S	2.4	0.469	0.027	0.0673	
600 minute winter	MH-0114-S	315	0.397	0.017	0.5	0.1309	0.0000	OK	012	MH-0113-S	0.5	0.224	0.007	0.0633	
600 minute winter	MH-0115-S	315	0.282	0.122	2.4	0.1383	0.0000	OK	Hydro-Brake®	DUMMY	2.4				
600 minute winter	DITCH	315	0.106	0.036	2.4	0.0000	0.0000	OK							
600 minute winter	DUMMY	315	0.187	0.037	2.4	0.0418	0.0000	OK	017	DITCH	2.4	0.492	0.031	0.0824	32.1

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Results for 2 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	IC-0101-S	360	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.327	0.011	0.0096	
720 minute summer	IC-0102-S	360	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
720 minute summer	IC-0103-S	360	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
720 minute summer	MH-0106-S	390	0.299	0.079	2.6	0.0889	0.0000	OK	014	MH-0115-S	2.5	0.194	0.034	0.3122	
720 minute summer	IC-0107-S	375	1.217	0.017	0.5	0.1169	0.0000	OK	006	IC-0108-S	0.5	0.418	0.028	0.0180	
720 minute summer	IC-0108-S	375	1.069	0.019	0.7	0.0355	0.0000	OK	007	IC-0109-S	0.7	0.492	0.033	0.0152	
720 minute summer	IC-0109-S	375	0.922	0.022	0.9	0.0487	0.0000	OK	008	IC-0110-S	0.9	0.531	0.046	0.0349	
720 minute summer	IC-0110-S	375	0.674	0.024	1.0	0.1064	0.0000	OK	009	MH-0111-S	1.0	0.477	0.055	0.0306	
720 minute summer	MH-0111-S	375	0.529	0.029	1.6	0.0834	0.0000	OK	010	MH-0112-S	1.6	0.464	0.019	0.0609	
720 minute summer	MH-0112-S	375	0.379	0.029	1.8	0.9195	0.0000	OK	011	MH-0113-S	1.8	0.459	0.019	0.0387	
720 minute summer	MH-0113-S	375	0.315	0.035	2.6	0.2349	0.0000	OK	013	MH-0106-S	2.6	0.469	0.029	0.0855	
720 minute summer	MH-0114-S	375	0.397	0.017	0.5	0.1309	0.0000	OK	012	MH-0113-S	0.5	0.224	0.007	0.0659	
720 minute summer	MH-0115-S	390	0.298	0.138	2.5	0.1565	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
720 minute summer	DITCH	390	0.107	0.037	2.5	0.0000	0.0000	OK							
720 minute summer	DUMMY	390	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0850	27.1

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Results for 2 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	IC-0101-S	360	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.327	0.011	0.0096	
720 minute winter	IC-0102-S	360	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
720 minute winter	IC-0103-S	360	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
720 minute winter	MH-0106-S	390	0.276	0.056	2.3	0.0635	0.0000	OK	014	MH-0115-S	2.3	0.194	0.031	0.2297	
720 minute winter	IC-0107-S	375	1.216	0.016	0.4	0.1052	0.0000	OK	006	IC-0108-S	0.4	0.382	0.023	0.0158	
720 minute winter	IC-0108-S	375	1.067	0.017	0.6	0.0330	0.0000	OK	007	IC-0109-S	0.6	0.463	0.028	0.0138	
720 minute winter	IC-0109-S	375	0.921	0.021	0.8	0.0460	0.0000	OK	008	IC-0110-S	0.8	0.509	0.041	0.0323	
720 minute winter	IC-0110-S	375	0.673	0.023	0.9	0.1011	0.0000	OK	009	MH-0111-S	0.9	0.455	0.050	0.0289	
720 minute winter	MH-0111-S	375	0.528	0.028	1.5	0.0809	0.0000	OK	010	MH-0112-S	1.5	0.456	0.018	0.0582	
720 minute winter	MH-0112-S	375	0.378	0.028	1.7	0.8971	0.0000	OK	011	MH-0113-S	1.7	0.454	0.018	0.0363	
720 minute winter	MH-0113-S	375	0.313	0.033	2.3	0.2218	0.0000	OK	013	MH-0106-S	2.3	0.464	0.025	0.0596	
720 minute winter	MH-0114-S	375	0.396	0.016	0.4	0.1179	0.0000	OK	012	MH-0113-S	0.4	0.224	0.005	0.0593	
720 minute winter	MH-0115-S	390	0.276	0.116	2.3	0.1309	0.0000	OK	Hydro-Brake®	DUMMY	2.3				
720 minute winter	DITCH	390	0.105	0.035	2.3	0.0000	0.0000	OK							
720 minute winter	DUMMY	390	0.186	0.036	2.3	0.0409	0.0000	OK	017	DITCH	2.3	0.487	0.030	0.0797	33.4

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Results for 2 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	IC-0101-S	495	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.327	0.011	0.0096	
960 minute summer	IC-0102-S	495	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
960 minute summer	IC-0103-S	495	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
960 minute summer	MH-0106-S	510	0.276	0.056	2.3	0.0635	0.0000	OK	014	MH-0115-S	2.3	0.194	0.031	0.2296	
960 minute summer	IC-0107-S	495	1.216	0.016	0.4	0.1052	0.0000	OK	006	IC-0108-S	0.4	0.382	0.023	0.0158	
960 minute summer	IC-0108-S	495	1.067	0.017	0.6	0.0330	0.0000	OK	007	IC-0109-S	0.6	0.463	0.028	0.0138	
960 minute summer	IC-0109-S	495	0.921	0.021	0.8	0.0460	0.0000	OK	008	IC-0110-S	0.8	0.509	0.041	0.0323	
960 minute summer	IC-0110-S	495	0.673	0.023	0.9	0.1011	0.0000	OK	009	MH-0111-S	0.9	0.455	0.050	0.0289	
960 minute summer	MH-0111-S	495	0.528	0.028	1.5	0.0809	0.0000	OK	010	MH-0112-S	1.5	0.456	0.018	0.0582	
960 minute summer	MH-0112-S	495	0.378	0.028	1.7	0.8970	0.0000	OK	011	MH-0113-S	1.7	0.454	0.018	0.0363	
960 minute summer	MH-0113-S	495	0.313	0.033	2.3	0.2218	0.0000	OK	013	MH-0106-S	2.3	0.464	0.025	0.0596	
960 minute summer	MH-0114-S	495	0.396	0.016	0.4	0.1179	0.0000	OK	012	MH-0113-S	0.4	0.224	0.005	0.0593	
960 minute summer	MH-0115-S	510	0.276	0.116	2.3	0.1308	0.0000	OK	Hydro-Brake®	DUMMY	2.3				
960 minute summer	DITCH	510	0.105	0.035	2.3	0.0000	0.0000	OK							
960 minute summer	DUMMY	510	0.186	0.036	2.3	0.0409	0.0000	OK	017	DITCH	2.3	0.487	0.030	0.0797	26.8

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Results for 2 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	IC-0101-S	615	1.108	0.008	0.1	0.0267	0.0000	OK	001	IC-0102-S	0.1	0.327	0.005	0.0067	
960 minute winter	IC-0102-S	435	0.961	0.011	0.2	0.0336	0.0000	OK	002	IC-0103-S	0.2	0.291	0.011	0.0101	
960 minute winter	IC-0103-S	435	0.814	0.014	0.3	0.0040	0.0000	OK	016	MH-0111-S	0.3	0.384	0.017	0.0158	
960 minute winter	MH-0106-S	525	0.250	0.030	1.6	0.0343	0.0000	OK	014	MH-0115-S	1.6	0.194	0.022	0.1369	
960 minute winter	IC-0107-S	480	1.214	0.014	0.3	0.0919	0.0000	OK	006	IC-0108-S	0.3	0.365	0.017	0.0124	
960 minute winter	IC-0108-S	480	1.064	0.014	0.4	0.0272	0.0000	OK	007	IC-0109-S	0.4	0.419	0.019	0.0102	
960 minute winter	IC-0109-S	480	0.917	0.017	0.5	0.0369	0.0000	OK	008	IC-0110-S	0.5	0.431	0.026	0.0238	
960 minute winter	IC-0110-S	480	0.669	0.019	0.6	0.0833	0.0000	OK	009	MH-0111-S	0.6	0.401	0.033	0.0219	
960 minute winter	MH-0111-S	480	0.523	0.023	1.0	0.0668	0.0000	OK	010	MH-0112-S	1.0	0.404	0.012	0.0437	
960 minute winter	MH-0112-S	525	0.373	0.023	1.1	0.7230	0.0000	OK	011	MH-0113-S	1.1	0.390	0.012	0.0279	
960 minute winter	MH-0113-S	510	0.308	0.028	1.6	0.1905	0.0000	OK	013	MH-0106-S	1.6	0.456	0.018	0.0316	
960 minute winter	MH-0114-S	480	0.394	0.014	0.3	0.1036	0.0000	OK	012	MH-0113-S	0.3	0.224	0.004	0.0477	
960 minute winter	MH-0115-S	525	0.246	0.086	1.6	0.0972	0.0000	OK	Hydro-Brake®	DUMMY	1.6				
960 minute winter	DITCH	525	0.099	0.029	1.6	0.0000	0.0000	OK							
960 minute winter	DUMMY	525	0.181	0.031	1.6	0.0345	0.0000	OK	017	DITCH	1.6	0.441	0.021	0.0615	33.6

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Results for 2 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	IC-0101-S	840	1.108	0.008	0.1	0.0267	0.0000	OK	001	IC-0102-S	0.1	0.275	0.005	0.0067	
1440 minute summer	IC-0102-S	720	0.961	0.011	0.2	0.0336	0.0000	OK	002	IC-0103-S	0.2	0.291	0.011	0.0101	
1440 minute summer	IC-0103-S	720	0.814	0.014	0.3	0.0040	0.0000	OK	016	MH-0111-S	0.3	0.384	0.017	0.0158	
1440 minute summer	MH-0106-S	750	0.250	0.030	1.6	0.0343	0.0000	OK	014	MH-0115-S	1.6	0.169	0.022	0.1368	
1440 minute summer	IC-0107-S	750	1.214	0.014	0.3	0.0919	0.0000	OK	006	IC-0108-S	0.3	0.365	0.017	0.0124	
1440 minute summer	IC-0108-S	750	1.064	0.014	0.4	0.0272	0.0000	OK	007	IC-0109-S	0.4	0.419	0.019	0.0102	
1440 minute summer	IC-0109-S	750	0.917	0.017	0.5	0.0369	0.0000	OK	008	IC-0110-S	0.5	0.431	0.026	0.0238	
1440 minute summer	IC-0110-S	750	0.669	0.019	0.6	0.0833	0.0000	OK	009	MH-0111-S	0.6	0.401	0.033	0.0219	
1440 minute summer	MH-0111-S	750	0.523	0.023	1.0	0.0668	0.0000	OK	010	MH-0112-S	1.0	0.404	0.012	0.0437	
1440 minute summer	MH-0112-S	750	0.373	0.023	1.1	0.7229	0.0000	OK	011	MH-0113-S	1.1	0.394	0.012	0.0279	
1440 minute summer	MH-0113-S	750	0.308	0.028	1.6	0.1905	0.0000	OK	013	MH-0106-S	1.6	0.456	0.018	0.0316	
1440 minute summer	MH-0114-S	750	0.394	0.014	0.3	0.1036	0.0000	OK	012	MH-0113-S	0.3	0.237	0.004	0.0477	
1440 minute summer	MH-0115-S	750	0.246	0.086	1.6	0.0972	0.0000	OK	Hydro-Brake®	DUMMY	1.6				
1440 minute summer	DITCH	750	0.099	0.029	1.6	0.0000	0.0000	OK							
1440 minute summer	DUMMY	750	0.180	0.030	1.6	0.0345	0.0000	OK	017	DITCH	1.6	0.441	0.021	0.0615	24.8

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Results for 2 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	IC-0101-S	660	1.108	0.008	0.1	0.0267	0.0000	OK	001	IC-0102-S	0.1	0.275	0.005	0.0051	
1440 minute winter	IC-0102-S	600	0.958	0.008	0.1	0.0245	0.0000	OK	002	IC-0103-S	0.1	0.272	0.006	0.0070	
1440 minute winter	IC-0103-S	690	0.811	0.011	0.2	0.0033	0.0000	OK	016	MH-0111-S	0.2	0.338	0.011	0.0120	
1440 minute winter	MH-0106-S	750	0.247	0.027	1.2	0.0300	0.0000	OK	014	MH-0115-S	1.2	0.162	0.016	0.1055	
1440 minute winter	IC-0107-S	660	1.211	0.011	0.2	0.0760	0.0000	OK	006	IC-0108-S	0.2	0.308	0.011	0.0098	
1440 minute winter	IC-0108-S	660	1.063	0.013	0.3	0.0238	0.0000	OK	007	IC-0109-S	0.3	0.376	0.014	0.0085	
1440 minute winter	IC-0109-S	660	0.915	0.015	0.4	0.0331	0.0000	OK	008	IC-0110-S	0.4	0.431	0.020	0.0207	
1440 minute winter	IC-0110-S	690	0.667	0.017	0.5	0.0764	0.0000	OK	009	MH-0111-S	0.5	0.383	0.028	0.0191	
1440 minute winter	MH-0111-S	690	0.521	0.021	0.8	0.0606	0.0000	OK	010	MH-0112-S	0.8	0.385	0.010	0.0367	
1440 minute winter	MH-0112-S	750	0.371	0.021	0.9	0.6598	0.0000	OK	011	MH-0113-S	0.9	0.375	0.010	0.0234	
1440 minute winter	MH-0113-S	750	0.304	0.024	1.2	0.1657	0.0000	OK	013	MH-0106-S	1.2	0.420	0.013	0.0258	
1440 minute winter	MH-0114-S	630	0.392	0.012	0.2	0.0863	0.0000	OK	012	MH-0113-S	0.2	0.237	0.003	0.0381	
1440 minute winter	MH-0115-S	750	0.231	0.071	1.2	0.0800	0.0000	OK	Hydro-Brake®	DUMMY	1.2				
1440 minute winter	DITCH	750	0.096	0.026	1.2	0.0000	0.0000	OK							
1440 minute winter	DUMMY	750	0.177	0.027	1.2	0.0301	0.0000	OK	017	DITCH	1.2	0.405	0.016	0.0502	30.9

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Results for 5 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0101-S	15	1.131	0.031	1.7	0.1022	0.0000	OK	001	IC-0102-S	1.7	0.559	0.093	0.0433	
15 minute summer	IC-0102-S	14	0.989	0.039	2.6	0.1156	0.0000	OK	002	IC-0103-S	2.6	0.636	0.145	0.0601	
15 minute summer	IC-0103-S	14	0.846	0.046	3.6	0.0135	0.0000	OK	016	MH-0111-S	3.6	0.791	0.199	0.0919	
15 minute summer	MH-0106-S	24	0.518	0.298	11.0	0.3372	0.0000	OK	014	MH-0115-S	5.5	0.409	0.074	0.9466	
15 minute summer	IC-0107-S	14	1.246	0.046	3.6	0.3126	0.0000	OK	006	IC-0108-S	3.6	0.710	0.203	0.0763	
15 minute summer	IC-0108-S	14	1.103	0.053	5.3	0.0996	0.0000	OK	007	IC-0109-S	5.3	0.851	0.251	0.0662	
15 minute summer	IC-0109-S	14	0.962	0.062	7.0	0.1389	0.0000	OK	008	IC-0110-S	7.0	0.915	0.357	0.1581	
15 minute summer	IC-0110-S	15	0.723	0.073	8.0	0.3225	0.0000	OK	009	MH-0111-S	8.0	0.859	0.443	0.1353	
15 minute summer	MH-0111-S	15	0.584	0.084	13.3	0.2404	0.0000	OK	010	MH-0112-S	13.3	0.851	0.159	0.2755	
15 minute summer	MH-0112-S	23	0.510	0.160	17.0	5.4887	0.0000	OK	011	MH-0113-S	12.6	0.595	0.134	0.4690	
15 minute summer	MH-0113-S	21	0.515	0.235	19.3	1.5910	0.0000	OK	013	MH-0106-S	11.0	0.664	0.122	0.5831	
15 minute summer	MH-0114-S	23	0.511	0.131	5.4	0.9841	0.0000	OK	012	MH-0113-S	4.9	0.486	0.064	0.9298	
15 minute summer	MH-0115-S	24	0.521	0.361	5.5	0.4081	0.0000	OK	Hydro-Brake®	DUMMY	2.6				
15 minute summer	DITCH	23	0.108	0.038	2.6	0.0000	0.0000	OK							
15 minute summer	DUMMY	20	0.188	0.038	2.6	0.0434	0.0000	OK	017	DITCH	2.6	0.502	0.034	0.0875	14.5

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Results for 5 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	14	1.133	0.033	1.9	0.1080	0.0000	OK	001	IC-0102-S	1.9	0.572	0.103	0.0470	
15 minute winter	IC-0102-S	14	0.991	0.041	2.9	0.1225	0.0000	OK	002	IC-0103-S	2.9	0.655	0.161	0.0650	
15 minute winter	IC-0103-S	14	0.849	0.049	4.0	0.0142	0.0000	OK	016	MH-0111-S	4.0	0.814	0.221	0.0992	
15 minute winter	MH-0106-S	23	0.538	0.318	11.8	0.3600	0.0000	SURCHARGED	014	MH-0115-S	7.2	0.426	0.098	0.9471	
15 minute winter	IC-0107-S	14	1.249	0.049	4.0	0.3309	0.0000	OK	006	IC-0108-S	4.0	0.727	0.225	0.0827	
15 minute winter	IC-0108-S	14	1.106	0.056	5.9	0.1059	0.0000	OK	007	IC-0109-S	5.9	0.872	0.279	0.0719	
15 minute winter	IC-0109-S	14	0.966	0.066	7.8	0.1479	0.0000	OK	008	IC-0110-S	7.8	0.936	0.397	0.1718	
15 minute winter	IC-0110-S	14	0.728	0.078	8.9	0.3442	0.0000	OK	009	MH-0111-S	8.9	0.885	0.491	0.1457	
15 minute winter	MH-0111-S	14	0.589	0.089	14.7	0.2539	0.0000	OK	010	MH-0112-S	14.7	0.876	0.176	0.3241	
15 minute winter	MH-0112-S	25	0.531	0.181	17.0	6.3013	0.0000	OK	011	MH-0113-S	11.8	0.618	0.126	0.5261	
15 minute winter	MH-0113-S	24	0.536	0.256	18.6	1.7347	0.0000	OK	013	MH-0106-S	11.8	0.676	0.130	0.6064	
15 minute winter	MH-0114-S	22	0.532	0.152	7.0	1.1422	0.0000	OK	012	MH-0113-S	4.5	0.479	0.059	1.0614	
15 minute winter	MH-0115-S	23	0.540	0.380	7.2	0.4302	0.0000	OK	Hydro-Brake®	DUMMY	2.7				
15 minute winter	DITCH	22	0.108	0.038	2.7	0.0000	0.0000	OK							
15 minute winter	DUMMY	22	0.189	0.039	2.7	0.0441	0.0000	OK	017	DITCH	2.7	0.506	0.035	0.0894	16.1

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Results for 5 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	IC-0101-S	22	1.131	0.031	1.7	0.1022	0.0000	OK	001	IC-0102-S	1.7	0.558	0.093	0.0433	
30 minute summer	IC-0102-S	21	0.989	0.039	2.6	0.1156	0.0000	OK	002	IC-0103-S	2.6	0.636	0.145	0.0600	
30 minute summer	IC-0103-S	21	0.846	0.046	3.6	0.0134	0.0000	OK	016	MH-0111-S	3.6	0.791	0.198	0.0916	
30 minute summer	MH-0106-S	33	0.552	0.332	10.3	0.3752	0.0000	SURCHARGED	014	MH-0115-S	7.1	0.332	0.096	0.9471	
30 minute summer	IC-0107-S	21	1.246	0.046	3.6	0.3122	0.0000	OK	006	IC-0108-S	3.6	0.709	0.202	0.0761	
30 minute summer	IC-0108-S	21	1.103	0.053	5.3	0.0995	0.0000	OK	007	IC-0109-S	5.3	0.851	0.250	0.0661	
30 minute summer	IC-0109-S	22	0.962	0.062	7.0	0.1388	0.0000	OK	008	IC-0110-S	7.0	0.911	0.356	0.1579	
30 minute summer	IC-0110-S	22	0.723	0.073	8.0	0.3220	0.0000	OK	009	MH-0111-S	8.0	0.858	0.442	0.1351	
30 minute summer	MH-0111-S	22	0.584	0.084	13.2	0.2401	0.0000	OK	010	MH-0112-S	13.2	0.850	0.159	0.3669	
30 minute summer	MH-0112-S	36	0.548	0.198	16.3	6.9362	0.0000	OK	011	MH-0113-S	12.8	0.592	0.136	0.5600	
30 minute summer	MH-0113-S	33	0.551	0.271	16.9	1.8322	0.0000	OK	013	MH-0106-S	10.3	0.602	0.114	0.6191	
30 minute summer	MH-0114-S	35	0.549	0.169	5.5	1.2651	0.0000	OK	012	MH-0113-S	4.3	0.379	0.057	1.1434	
30 minute summer	MH-0115-S	32	0.552	0.392	7.1	0.4438	0.0000	OK	Hydro-Brake®	DUMMY	2.7				
30 minute summer	DITCH	36	0.108	0.038	2.7	0.0000	0.0000	OK							
30 minute summer	DUMMY	37	0.189	0.039	2.7	0.0444	0.0000	OK	017	DITCH	2.7	0.509	0.036	0.0903	18.5

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Results for 5 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	IC-0101-S	21	1.132	0.032	1.8	0.1051	0.0000	OK	001	IC-0102-S	1.8	0.567	0.098	0.0447	
30 minute winter	IC-0102-S	21	0.989	0.039	2.7	0.1178	0.0000	OK	002	IC-0103-S	2.7	0.642	0.150	0.0616	
30 minute winter	IC-0103-S	21	0.847	0.047	3.8	0.0137	0.0000	OK	016	MH-0111-S	3.7	0.799	0.205	0.0941	
30 minute winter	MH-0106-S	34	0.577	0.357	9.8	0.4040	0.0000	SURCHARGED	014	MH-0115-S	5.3	0.328	0.072	0.9471	
30 minute winter	IC-0107-S	21	1.247	0.047	3.8	0.3188	0.0000	OK	006	IC-0108-S	3.7	0.715	0.211	0.0787	
30 minute winter	IC-0108-S	21	1.104	0.054	5.5	0.1022	0.0000	OK	007	IC-0109-S	5.5	0.859	0.262	0.0686	
30 minute winter	IC-0109-S	21	0.964	0.064	7.3	0.1427	0.0000	OK	008	IC-0110-S	7.3	0.921	0.373	0.1632	
30 minute winter	IC-0110-S	22	0.724	0.074	8.3	0.3300	0.0000	OK	009	MH-0111-S	8.3	0.869	0.460	0.1388	
30 minute winter	MH-0111-S	22	0.585	0.085	13.8	0.2448	0.0000	OK	010	MH-0112-S	13.7	0.860	0.165	0.4871	
30 minute winter	MH-0112-S	36	0.572	0.222	16.6	7.9058	0.0000	OK	011	MH-0113-S	12.4	0.588	0.131	0.6125	
30 minute winter	MH-0113-S	34	0.576	0.296	18.5	1.9995	0.0000	OK	013	MH-0106-S	9.8	0.609	0.108	0.6338	
30 minute winter	MH-0114-S	37	0.574	0.194	7.3	1.4500	0.0000	OK	012	MH-0113-S	4.7	0.377	0.062	1.2623	
30 minute winter	MH-0115-S	34	0.579	0.419	5.3	0.4735	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
30 minute winter	DITCH	39	0.109	0.039	2.8	0.0000	0.0000	OK							
30 minute winter	DUMMY	32	0.190	0.040	2.8	0.0450	0.0000	OK	017	DITCH	2.8	0.513	0.037	0.0920	20.5

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Results for 5 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	IC-0101-S	36	1.129	0.029	1.5	0.0960	0.0000	OK	001	IC-0102-S	1.5	0.544	0.082	0.0388	
60 minute summer	IC-0102-S	36	0.985	0.035	2.2	0.1058	0.0000	OK	002	IC-0103-S	2.2	0.605	0.122	0.0533	
60 minute summer	IC-0103-S	36	0.843	0.043	3.1	0.0124	0.0000	OK	016	MH-0111-S	3.1	0.757	0.169	0.0819	
60 minute summer	MH-0106-S	56	0.563	0.343	8.4	0.3882	0.0000	SURCHARGED	014	MH-0115-S	5.3	0.287	0.072	0.9471	
60 minute summer	IC-0107-S	36	1.243	0.043	3.1	0.2881	0.0000	OK	006	IC-0108-S	3.1	0.683	0.174	0.0682	
60 minute summer	IC-0108-S	36	1.099	0.049	4.6	0.0919	0.0000	OK	007	IC-0109-S	4.6	0.821	0.217	0.0594	
60 minute summer	IC-0109-S	36	0.958	0.058	6.1	0.1283	0.0000	OK	008	IC-0110-S	6.1	0.884	0.309	0.1414	
60 minute summer	IC-0110-S	36	0.716	0.066	7.0	0.2949	0.0000	OK	009	MH-0111-S	6.9	0.827	0.383	0.1214	
60 minute summer	MH-0111-S	37	0.577	0.077	11.5	0.2220	0.0000	OK	010	MH-0112-S	11.4	0.817	0.137	0.4278	
60 minute summer	MH-0112-S	58	0.560	0.210	13.9	7.4280	0.0000	OK	011	MH-0113-S	10.2	0.540	0.109	0.5901	
60 minute summer	MH-0113-S	56	0.562	0.282	14.5	1.9106	0.0000	OK	013	MH-0106-S	8.4	0.520	0.093	0.6274	
60 minute summer	MH-0114-S	59	0.561	0.181	6.1	1.3568	0.0000	OK	012	MH-0113-S	5.3	0.296	0.070	1.2077	
60 minute summer	MH-0115-S	56	0.564	0.404	5.3	0.4567	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
60 minute summer	DITCH	54	0.109	0.039	2.8	0.0000	0.0000	OK							
60 minute summer	DUMMY	54	0.190	0.040	2.8	0.0448	0.0000	OK	017	DITCH	2.8	0.511	0.036	0.0913	22.7

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Results for 5 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	IC-0101-S	37	1.127	0.027	1.3	0.0897	0.0000	OK	001	IC-0102-S	1.3	0.517	0.071	0.0359	
60 minute winter	IC-0102-S	37	0.984	0.034	2.0	0.1012	0.0000	OK	002	IC-0103-S	2.0	0.590	0.111	0.0499	
60 minute winter	IC-0103-S	37	0.841	0.041	2.8	0.0118	0.0000	OK	016	MH-0111-S	2.8	0.738	0.155	0.0767	
60 minute winter	MH-0106-S	60	0.594	0.374	7.9	0.4226	0.0000	SURCHARGED	014	MH-0115-S	4.9	0.310	0.066	0.9471	
60 minute winter	IC-0107-S	36	1.241	0.041	2.8	0.2733	0.0000	OK	006	IC-0108-S	2.8	0.668	0.157	0.0629	
60 minute winter	IC-0108-S	36	1.096	0.046	4.1	0.0863	0.0000	OK	007	IC-0109-S	4.1	0.801	0.193	0.0543	
60 minute winter	IC-0109-S	37	0.954	0.054	5.4	0.1200	0.0000	OK	008	IC-0110-S	5.4	0.856	0.275	0.1294	
60 minute winter	IC-0110-S	37	0.712	0.062	6.2	0.2758	0.0000	OK	009	MH-0111-S	6.2	0.817	0.342	0.1124	
60 minute winter	MH-0111-S	59	0.596	0.096	10.3	0.2756	0.0000	OK	010	MH-0112-S	10.4	0.787	0.125	0.5993	
60 minute winter	MH-0112-S	60	0.595	0.245	13.1	8.8208	0.0000	OK	011	MH-0113-S	6.9	0.538	0.073	0.6419	
60 minute winter	MH-0113-S	60	0.594	0.314	10.4	2.1249	0.0000	SURCHARGED	013	MH-0106-S	7.9	0.535	0.088	0.6348	
60 minute winter	MH-0114-S	58	0.595	0.215	4.3	1.6124	0.0000	OK	012	MH-0113-S	3.6	0.298	0.047	1.3341	
60 minute winter	MH-0115-S	60	0.593	0.433	4.9	0.4900	0.0000	OK	Hydro-Brake®	DUMMY	2.9				
60 minute winter	DITCH	61	0.109	0.039	2.9	0.0000	0.0000	OK							
60 minute winter	DUMMY	61	0.190	0.040	2.9	0.0456	0.0000	OK	017	DITCH	2.9	0.517	0.038	0.0937	25.5

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Results for 5 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	IC-0101-S	66	1.126	0.026	1.2	0.0862	0.0000	OK	001	IC-0102-S	1.2	0.504	0.065	0.0335	
120 minute summer	IC-0102-S	66	0.982	0.032	1.8	0.0957	0.0000	OK	002	IC-0103-S	1.8	0.574	0.100	0.0458	
120 minute summer	IC-0103-S	66	0.838	0.038	2.5	0.0111	0.0000	OK	016	MH-0111-S	2.5	0.713	0.137	0.0701	
120 minute summer	MH-0106-S	90	0.580	0.360	5.9	0.4076	0.0000	SURCHARGED	014	MH-0115-S	4.2	0.252	0.056	0.9471	
120 minute summer	IC-0107-S	66	1.237	0.037	2.4	0.2520	0.0000	OK	006	IC-0108-S	2.4	0.638	0.135	0.0565	
120 minute summer	IC-0108-S	66	1.092	0.042	3.6	0.0804	0.0000	OK	007	IC-0109-S	3.6	0.772	0.170	0.0496	
120 minute summer	IC-0109-S	66	0.951	0.051	4.8	0.1126	0.0000	OK	008	IC-0110-S	4.8	0.834	0.244	0.1179	
120 minute summer	IC-0110-S	66	0.708	0.058	5.5	0.2563	0.0000	OK	009	MH-0111-S	5.4	0.784	0.302	0.1027	
120 minute summer	MH-0111-S	92	0.580	0.080	9.1	0.2289	0.0000	OK	010	MH-0112-S	9.1	0.756	0.109	0.5198	
120 minute summer	MH-0112-S	92	0.579	0.229	10.2	8.1757	0.0000	OK	011	MH-0113-S	5.0	0.510	0.053	0.6227	
120 minute summer	MH-0113-S	90	0.580	0.300	8.3	2.0300	0.0000	SURCHARGED	013	MH-0106-S	5.9	0.478	0.065	0.6345	
120 minute summer	MH-0114-S	88	0.579	0.199	4.7	1.4935	0.0000	OK	012	MH-0113-S	2.6	0.253	0.034	1.2865	
120 minute summer	MH-0115-S	90	0.581	0.421	4.2	0.4757	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
120 minute summer	DITCH	88	0.109	0.039	2.8	0.0000	0.0000	OK							
120 minute summer	DUMMY	88	0.190	0.040	2.8	0.0452	0.0000	OK	017	DITCH	2.8	0.514	0.037	0.0926	30.1

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Results for 5 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	IC-0101-S	68	1.123	0.023	0.9	0.0750	0.0000	OK	001	IC-0102-S	0.9	0.465	0.049	0.0278	
120 minute winter	IC-0102-S	68	0.978	0.028	1.4	0.0849	0.0000	OK	002	IC-0103-S	1.4	0.539	0.078	0.0382	
120 minute winter	IC-0103-S	68	0.833	0.033	1.9	0.0097	0.0000	OK	016	MH-0111-S	1.9	0.662	0.105	0.0580	
120 minute winter	MH-0106-S	96	0.612	0.392	7.4	0.4432	0.0000	SURCHARGED	014	MH-0115-S	5.0	0.262	0.067	0.9471	
120 minute winter	IC-0107-S	68	1.233	0.033	1.9	0.2240	0.0000	OK	006	IC-0108-S	1.9	0.604	0.107	0.0474	
120 minute winter	IC-0108-S	68	1.087	0.037	2.8	0.0705	0.0000	OK	007	IC-0109-S	2.8	0.726	0.133	0.0411	
120 minute winter	IC-0109-S	68	0.944	0.044	3.7	0.0982	0.0000	OK	008	IC-0110-S	3.7	0.784	0.189	0.0971	
120 minute winter	IC-0110-S	68	0.700	0.050	4.2	0.2217	0.0000	OK	009	MH-0111-S	4.2	0.735	0.233	0.1190	
120 minute winter	MH-0111-S	96	0.612	0.112	7.0	0.3198	0.0000	OK	010	MH-0112-S	7.0	0.692	0.084	0.6800	
120 minute winter	MH-0112-S	96	0.611	0.261	8.2	9.5054	0.0000	OK	011	MH-0113-S	5.6	0.500	0.059	0.6594	
120 minute winter	MH-0113-S	96	0.612	0.332	9.7	2.2455	0.0000	SURCHARGED	013	MH-0106-S	7.4	0.492	0.082	0.6348	
120 minute winter	MH-0114-S	96	0.612	0.232	2.9	1.7383	0.0000	OK	012	MH-0113-S	3.0	0.259	0.039	1.3810	
120 minute winter	MH-0115-S	96	0.612	0.452	5.0	0.5110	0.0000	OK	Hydro-Brake®	DUMMY	2.9				
120 minute winter	DITCH	98	0.110	0.040	2.9	0.0000	0.0000	OK							
120 minute winter	DUMMY	98	0.191	0.041	2.9	0.0460	0.0000	OK	017	DITCH	2.9	0.519	0.038	0.0949	33.5

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Results for 5 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	IC-0101-S	100	1.123	0.023	0.9	0.0750	0.0000	OK	001	IC-0102-S	0.9	0.467	0.049	0.0277	
180 minute summer	IC-0102-S	96	0.978	0.028	1.4	0.0843	0.0000	OK	002	IC-0103-S	1.4	0.538	0.077	0.0377	
180 minute summer	IC-0103-S	96	0.833	0.033	1.9	0.0096	0.0000	OK	016	MH-0111-S	1.9	0.658	0.103	0.0572	
180 minute summer	MH-0106-S	124	0.575	0.355	5.1	0.4019	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.244	0.052	0.9471	
180 minute summer	IC-0107-S	96	1.233	0.033	1.9	0.2222	0.0000	OK	006	IC-0108-S	1.9	0.601	0.105	0.0468	
180 minute summer	IC-0108-S	96	1.087	0.037	2.8	0.0699	0.0000	OK	007	IC-0109-S	2.8	0.723	0.131	0.0407	
180 minute summer	IC-0109-S	96	0.944	0.044	3.7	0.0976	0.0000	OK	008	IC-0110-S	3.6	0.782	0.186	0.0963	
180 minute summer	IC-0110-S	100	0.700	0.050	4.1	0.2206	0.0000	OK	009	MH-0111-S	4.2	0.733	0.231	0.0840	
180 minute summer	MH-0111-S	124	0.574	0.074	6.9	0.2126	0.0000	OK	010	MH-0112-S	6.9	0.687	0.083	0.4926	
180 minute summer	MH-0112-S	128	0.574	0.224	7.9	7.9736	0.0000	OK	011	MH-0113-S	6.3	0.485	0.067	0.6147	
180 minute summer	MH-0113-S	124	0.575	0.295	9.8	1.9952	0.0000	OK	013	MH-0106-S	5.1	0.474	0.056	0.6335	
180 minute summer	MH-0114-S	128	0.574	0.194	3.2	1.4534	0.0000	OK	012	MH-0113-S	2.4	0.217	0.032	1.2662	
180 minute summer	MH-0115-S	124	0.576	0.416	3.8	0.4702	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
180 minute summer	DITCH	128	0.109	0.039	2.8	0.0000	0.0000	OK							
180 minute summer	DUMMY	132	0.190	0.040	2.8	0.0450	0.0000	OK	017	DITCH	2.8	0.513	0.037	0.0921	34.6

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Results for 5 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	IC-0101-S	100	1.120	0.020	0.7	0.0665	0.0000	OK	001	IC-0102-S	0.7	0.434	0.038	0.0234	
180 minute winter	IC-0102-S	100	0.975	0.025	1.1	0.0755	0.0000	OK	002	IC-0103-S	1.1	0.502	0.061	0.0322	
180 minute winter	IC-0103-S	100	0.830	0.030	1.5	0.0086	0.0000	OK	016	MH-0111-S	1.5	0.619	0.083	0.0490	
180 minute winter	MH-0106-S	136	0.605	0.385	6.0	0.4356	0.0000	SURCHARGED	014	MH-0115-S	4.1	0.249	0.055	0.9471	
180 minute winter	IC-0107-S	100	1.230	0.030	1.5	0.1988	0.0000	OK	006	IC-0108-S	1.5	0.568	0.085	0.0397	
180 minute winter	IC-0108-S	100	1.083	0.033	2.2	0.0621	0.0000	OK	007	IC-0109-S	2.2	0.682	0.104	0.0344	
180 minute winter	IC-0109-S	100	0.939	0.039	2.9	0.0866	0.0000	OK	008	IC-0110-S	2.9	0.735	0.148	0.0811	
180 minute winter	IC-0110-S	100	0.694	0.044	3.3	0.1941	0.0000	OK	009	MH-0111-S	3.3	0.685	0.183	0.1119	
180 minute winter	MH-0111-S	136	0.605	0.105	5.5	0.3009	0.0000	OK	010	MH-0112-S	5.5	0.647	0.066	0.6475	
180 minute winter	MH-0112-S	136	0.605	0.255	6.2	9.2389	0.0000	OK	011	MH-0113-S	5.1	0.500	0.054	0.6529	
180 minute winter	MH-0113-S	136	0.605	0.325	7.4	2.2002	0.0000	SURCHARGED	013	MH-0106-S	6.0	0.474	0.066	0.6348	
180 minute winter	MH-0114-S	136	0.605	0.225	1.7	1.6861	0.0000	OK	012	MH-0113-S	1.8	0.247	0.024	1.3620	
180 minute winter	MH-0115-S	136	0.605	0.445	4.1	0.5034	0.0000	OK	Hydro-Brake®	DUMMY	2.9				
180 minute winter	DITCH	136	0.110	0.040	2.9	0.0000	0.0000	OK							
180 minute winter	DUMMY	136	0.191	0.041	2.9	0.0458	0.0000	OK	017	DITCH	2.9	0.518	0.038	0.0945	38.3

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Results for 5 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	IC-0101-S	128	1.121	0.021	0.8	0.0708	0.0000	OK	001	IC-0102-S	0.8	0.448	0.044	0.0252	
240 minute summer	IC-0102-S	128	0.976	0.026	1.2	0.0787	0.0000	OK	002	IC-0103-S	1.2	0.519	0.067	0.0339	
240 minute summer	IC-0103-S	128	0.831	0.031	1.6	0.0089	0.0000	OK	016	MH-0111-S	1.6	0.630	0.088	0.0513	
240 minute summer	MH-0106-S	164	0.561	0.341	5.5	0.3862	0.0000	SURCHARGED	014	MH-0115-S	4.0	0.242	0.055	0.9471	
240 minute summer	IC-0107-S	128	1.230	0.030	1.6	0.2049	0.0000	OK	006	IC-0108-S	1.6	0.574	0.090	0.0419	
240 minute summer	IC-0108-S	128	1.084	0.034	2.4	0.0649	0.0000	OK	007	IC-0109-S	2.4	0.694	0.113	0.0368	
240 minute summer	IC-0109-S	128	0.941	0.041	3.2	0.0912	0.0000	OK	008	IC-0110-S	3.2	0.759	0.163	0.0866	
240 minute summer	IC-0110-S	128	0.696	0.046	3.6	0.2028	0.0000	OK	009	MH-0111-S	3.6	0.696	0.199	0.0750	
240 minute summer	MH-0111-S	164	0.561	0.061	6.0	0.1735	0.0000	OK	010	MH-0112-S	6.1	0.667	0.073	0.4299	
240 minute summer	MH-0112-S	160	0.561	0.211	6.9	7.4709	0.0000	OK	011	MH-0113-S	5.9	0.495	0.062	0.5903	
240 minute summer	MH-0113-S	164	0.561	0.281	8.8	1.9028	0.0000	OK	013	MH-0106-S	5.5	0.474	0.060	0.6266	
240 minute summer	MH-0114-S	160	0.561	0.181	1.8	1.3587	0.0000	OK	012	MH-0113-S	2.3	0.224	0.030	1.2098	
240 minute summer	MH-0115-S	164	0.562	0.402	4.0	0.4542	0.0000	OK	Hydro-Brake®	DUMMY	2.7				
240 minute summer	DITCH	160	0.109	0.039	2.7	0.0000	0.0000	OK							
240 minute summer	DUMMY	164	0.190	0.040	2.7	0.0447	0.0000	OK	017	DITCH	2.7	0.511	0.036	0.0912	37.2

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Results for 5 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	IC-0101-S	128	1.119	0.019	0.6	0.0617	0.0000	OK	001	IC-0102-S	0.6	0.410	0.033	0.0206	
240 minute winter	IC-0102-S	132	0.973	0.023	0.9	0.0685	0.0000	OK	002	IC-0103-S	0.9	0.477	0.050	0.0277	
240 minute winter	IC-0103-S	132	0.826	0.026	1.2	0.0077	0.0000	OK	016	MH-0111-S	1.2	0.579	0.066	0.0419	
240 minute winter	MH-0106-S	176	0.580	0.360	4.2	0.4069	0.0000	SURCHARGED	014	MH-0115-S	3.3	0.246	0.044	0.9471	
240 minute winter	IC-0107-S	132	1.226	0.026	1.2	0.1781	0.0000	OK	006	IC-0108-S	1.2	0.529	0.068	0.0341	
240 minute winter	IC-0108-S	132	1.080	0.030	1.8	0.0561	0.0000	OK	007	IC-0109-S	1.8	0.642	0.085	0.0299	
240 minute winter	IC-0109-S	132	0.935	0.035	2.4	0.0788	0.0000	OK	008	IC-0110-S	2.4	0.703	0.122	0.0702	
240 minute winter	IC-0110-S	132	0.689	0.039	2.7	0.1743	0.0000	OK	009	MH-0111-S	2.7	0.646	0.150	0.0847	
240 minute winter	MH-0111-S	176	0.580	0.080	4.5	0.2295	0.0000	OK	010	MH-0112-S	4.5	0.617	0.054	0.5238	
240 minute winter	MH-0112-S	172	0.580	0.230	5.1	8.2303	0.0000	OK	011	MH-0113-S	4.4	0.489	0.046	0.6244	
240 minute winter	MH-0113-S	172	0.580	0.300	6.7	2.0289	0.0000	OK	013	MH-0106-S	4.2	0.472	0.046	0.6345	
240 minute winter	MH-0114-S	172	0.580	0.200	2.5	1.5010	0.0000	OK	012	MH-0113-S	2.2	0.223	0.029	1.2896	
240 minute winter	MH-0115-S	176	0.580	0.420	3.3	0.4746	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
240 minute winter	DITCH	172	0.109	0.039	2.8	0.0000	0.0000	OK							
240 minute winter	DUMMY	172	0.190	0.040	2.8	0.0452	0.0000	OK	017	DITCH	2.8	0.515	0.037	0.0927	41.3

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Results for 5 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	IC-0101-S	192	1.119	0.019	0.6	0.0617	0.0000	OK	001	IC-0102-S	0.6	0.410	0.033	0.0206	
360 minute summer	IC-0102-S	192	0.973	0.023	0.9	0.0685	0.0000	OK	002	IC-0103-S	0.9	0.477	0.050	0.0277	
360 minute summer	IC-0103-S	192	0.826	0.026	1.2	0.0077	0.0000	OK	016	MH-0111-S	1.2	0.579	0.066	0.0419	
360 minute summer	MH-0106-S	224	0.534	0.314	5.1	0.3548	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.205	0.052	0.9471	
360 minute summer	IC-0107-S	192	1.226	0.026	1.2	0.1781	0.0000	OK	006	IC-0108-S	1.2	0.529	0.068	0.0341	
360 minute summer	IC-0108-S	192	1.080	0.030	1.8	0.0561	0.0000	OK	007	IC-0109-S	1.8	0.642	0.085	0.0299	
360 minute summer	IC-0109-S	192	0.935	0.035	2.4	0.0788	0.0000	OK	008	IC-0110-S	2.4	0.703	0.122	0.0701	
360 minute summer	IC-0110-S	192	0.689	0.039	2.7	0.1740	0.0000	OK	009	MH-0111-S	2.7	0.644	0.149	0.0610	
360 minute summer	MH-0111-S	192	0.547	0.047	4.5	0.1348	0.0000	OK	010	MH-0112-S	4.5	0.619	0.054	0.3004	
360 minute summer	MH-0112-S	232	0.532	0.182	5.1	6.3552	0.0000	OK	011	MH-0113-S	4.7	0.465	0.050	0.5259	
360 minute summer	MH-0113-S	224	0.533	0.253	6.6	1.7145	0.0000	OK	013	MH-0106-S	5.1	0.463	0.057	0.6035	
360 minute summer	MH-0114-S	232	0.533	0.153	1.3	1.1425	0.0000	OK	012	MH-0113-S	1.2	0.198	0.016	1.0638	
360 minute summer	MH-0115-S	224	0.534	0.374	3.8	0.4228	0.0000	OK	Hydro-Brake®	DUMMY	2.7				
360 minute summer	DITCH	232	0.108	0.038	2.7	0.0000	0.0000	OK							
360 minute summer	DUMMY	224	0.189	0.039	2.7	0.0440	0.0000	OK	017	DITCH	2.7	0.506	0.035	0.0890	42.1

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Results for 5 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	IC-0101-S	184	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.363	0.022	0.0155	
360 minute winter	IC-0102-S	184	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.424	0.033	0.0218	
360 minute winter	IC-0103-S	192	0.823	0.023	0.9	0.0067	0.0000	OK	016	MH-0111-S	0.9	0.533	0.050	0.0341	
360 minute winter	MH-0106-S	248	0.536	0.316	3.4	0.3572	0.0000	SURCHARGED	014	MH-0115-S	3.0	0.188	0.040	0.9471	
360 minute winter	IC-0107-S	192	1.223	0.023	0.9	0.1548	0.0000	OK	006	IC-0108-S	0.9	0.493	0.051	0.0275	
360 minute winter	IC-0108-S	200	1.075	0.025	1.3	0.0478	0.0000	OK	007	IC-0109-S	1.3	0.588	0.062	0.0236	
360 minute winter	IC-0109-S	200	0.930	0.030	1.7	0.0664	0.0000	OK	008	IC-0110-S	1.7	0.637	0.087	0.0558	
360 minute winter	IC-0110-S	192	0.684	0.034	2.0	0.1495	0.0000	OK	009	MH-0111-S	2.0	0.592	0.111	0.0498	
360 minute winter	MH-0111-S	184	0.541	0.041	3.3	0.1178	0.0000	OK	010	MH-0112-S	3.3	0.573	0.040	0.3133	
360 minute winter	MH-0112-S	248	0.535	0.185	4.1	6.4596	0.0000	OK	011	MH-0113-S	4.2	0.469	0.044	0.5332	
360 minute winter	MH-0113-S	248	0.536	0.256	6.1	1.7303	0.0000	OK	013	MH-0106-S	3.4	0.467	0.037	0.6057	
360 minute winter	MH-0114-S	240	0.535	0.155	1.1	1.1624	0.0000	OK	012	MH-0113-S	1.4	0.203	0.019	1.0787	
360 minute winter	MH-0115-S	248	0.536	0.376	3.0	0.4251	0.0000	OK	Hydro-Brake®	DUMMY	2.7				
360 minute winter	DITCH	248	0.108	0.038	2.7	0.0000	0.0000	OK							
360 minute winter	DUMMY	248	0.189	0.039	2.7	0.0440	0.0000	OK	017	DITCH	2.7	0.506	0.035	0.0892	46.0

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Results for 5 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	IC-0101-S	248	1.117	0.017	0.5	0.0560	0.0000	OK	001	IC-0102-S	0.5	0.396	0.027	0.0173	
480 minute summer	IC-0102-S	248	0.970	0.020	0.7	0.0596	0.0000	OK	002	IC-0103-S	0.7	0.426	0.037	0.0232	
480 minute summer	IC-0103-S	248	0.824	0.024	1.0	0.0069	0.0000	OK	016	MH-0111-S	1.0	0.543	0.053	0.0358	
480 minute summer	MH-0106-S	288	0.498	0.278	5.6	0.3149	0.0000	OK	014	MH-0115-S	3.8	0.209	0.051	0.9322	
480 minute summer	IC-0107-S	248	1.224	0.024	1.0	0.1614	0.0000	OK	006	IC-0108-S	1.0	0.499	0.055	0.0296	
480 minute summer	IC-0108-S	248	1.077	0.027	1.5	0.0508	0.0000	OK	007	IC-0109-S	1.5	0.606	0.070	0.0259	
480 minute summer	IC-0109-S	248	0.932	0.032	2.0	0.0710	0.0000	OK	008	IC-0110-S	1.9	0.660	0.099	0.0607	
480 minute summer	IC-0110-S	248	0.685	0.035	2.2	0.1573	0.0000	OK	009	MH-0111-S	2.2	0.601	0.123	0.0538	
480 minute summer	MH-0111-S	248	0.543	0.043	3.7	0.1242	0.0000	OK	010	MH-0112-S	3.6	0.591	0.044	0.2079	
480 minute summer	MH-0112-S	296	0.498	0.148	4.1	5.0733	0.0000	OK	011	MH-0113-S	4.5	0.471	0.048	0.4340	
480 minute summer	MH-0113-S	288	0.498	0.218	6.9	1.4752	0.0000	OK	013	MH-0106-S	5.6	0.463	0.062	0.5545	
480 minute summer	MH-0114-S	296	0.499	0.119	1.4	0.8879	0.0000	OK	012	MH-0113-S	1.9	0.181	0.025	0.8606	
480 minute summer	MH-0115-S	288	0.499	0.339	3.8	0.3829	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
480 minute summer	DITCH	288	0.107	0.037	2.5	0.0000	0.0000	OK							
480 minute summer	DUMMY	288	0.188	0.038	2.5	0.0430	0.0000	OK	017	DITCH	2.5	0.499	0.033	0.0862	41.8

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Results for 5 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	IC-0101-S	224	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0133	
480 minute winter	IC-0102-S	240	0.967	0.017	0.5	0.0517	0.0000	OK	002	IC-0103-S	0.5	0.394	0.028	0.0187	
480 minute winter	IC-0103-S	240	0.820	0.020	0.7	0.0059	0.0000	OK	016	MH-0111-S	0.7	0.495	0.039	0.0286	
480 minute winter	MH-0106-S	320	0.485	0.265	4.2	0.2998	0.0000	OK	014	MH-0115-S	3.1	0.179	0.042	0.9165	
480 minute winter	IC-0107-S	256	1.220	0.020	0.7	0.1371	0.0000	OK	006	IC-0108-S	0.7	0.459	0.039	0.0229	
480 minute winter	IC-0108-S	256	1.072	0.022	1.0	0.0421	0.0000	OK	007	IC-0109-S	1.0	0.545	0.047	0.0196	
480 minute winter	IC-0109-S	256	0.926	0.026	1.3	0.0582	0.0000	OK	008	IC-0110-S	1.3	0.583	0.066	0.0458	
480 minute winter	IC-0110-S	264	0.679	0.029	1.5	0.1296	0.0000	OK	009	MH-0111-S	1.5	0.539	0.083	0.0412	
480 minute winter	MH-0111-S	256	0.536	0.036	2.5	0.1035	0.0000	OK	010	MH-0112-S	2.5	0.529	0.030	0.1800	
480 minute winter	MH-0112-S	312	0.487	0.137	3.3	4.6607	0.0000	OK	011	MH-0113-S	4.7	0.489	0.050	0.4031	
480 minute winter	MH-0113-S	312	0.486	0.206	7.0	1.3915	0.0000	OK	013	MH-0106-S	4.2	0.467	0.047	0.5288	
480 minute winter	MH-0114-S	312	0.488	0.108	1.3	0.8063	0.0000	OK	012	MH-0113-S	1.9	0.197	0.025	0.7949	
480 minute winter	MH-0115-S	320	0.485	0.325	3.1	0.3673	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
480 minute winter	DITCH	208	0.107	0.037	2.5	0.0000	0.0000	OK							
480 minute winter	DUMMY	208	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	48.3

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Results for 5 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	IC-0101-S	315	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.363	0.022	0.0155	
600 minute summer	IC-0102-S	315	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.424	0.033	0.0208	
600 minute summer	IC-0103-S	315	0.822	0.022	0.8	0.0063	0.0000	OK	016	MH-0111-S	0.8	0.515	0.044	0.0314	
600 minute summer	MH-0106-S	345	0.470	0.250	4.6	0.2831	0.0000	OK	014	MH-0115-S	3.7	0.170	0.049	0.8959	
600 minute summer	IC-0107-S	315	1.222	0.022	0.8	0.1462	0.0000	OK	006	IC-0108-S	0.8	0.470	0.045	0.0257	
600 minute summer	IC-0108-S	315	1.074	0.024	1.2	0.0460	0.0000	OK	007	IC-0109-S	1.2	0.570	0.057	0.0225	
600 minute summer	IC-0109-S	315	0.929	0.029	1.6	0.0644	0.0000	OK	008	IC-0110-S	1.6	0.626	0.082	0.0526	
600 minute summer	IC-0110-S	315	0.682	0.032	1.8	0.1418	0.0000	OK	009	MH-0111-S	1.8	0.561	0.100	0.0468	
600 minute summer	MH-0111-S	315	0.539	0.039	3.0	0.1131	0.0000	OK	010	MH-0112-S	3.0	0.559	0.036	0.1395	
600 minute summer	MH-0112-S	360	0.470	0.120	3.4	4.0354	0.0000	OK	011	MH-0113-S	4.5	0.451	0.048	0.3555	
600 minute summer	MH-0113-S	345	0.469	0.189	6.9	1.2818	0.0000	OK	013	MH-0106-S	4.6	0.469	0.050	0.4943	
600 minute summer	MH-0114-S	360	0.470	0.090	0.9	0.6754	0.0000	OK	012	MH-0113-S	1.8	0.252	0.024	0.6921	
600 minute summer	MH-0115-S	345	0.471	0.311	3.7	0.3513	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
600 minute summer	DITCH	285	0.107	0.037	2.5	0.0000	0.0000	OK							
600 minute summer	DUMMY	285	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	41.5

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Results for 5 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	IC-0101-S	315	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0121	
600 minute winter	IC-0102-S	315	0.966	0.016	0.4	0.0465	0.0000	OK	002	IC-0103-S	0.4	0.359	0.022	0.0164	
600 minute winter	IC-0103-S	315	0.819	0.019	0.6	0.0055	0.0000	OK	016	MH-0111-S	0.6	0.472	0.033	0.0257	
600 minute winter	MH-0106-S	390	0.443	0.223	4.1	0.2525	0.0000	OK	014	MH-0115-S	3.4	0.201	0.046	0.8416	
600 minute winter	IC-0107-S	315	1.219	0.019	0.6	0.1274	0.0000	OK	006	IC-0108-S	0.6	0.431	0.034	0.0210	
600 minute winter	IC-0108-S	315	1.071	0.021	0.9	0.0400	0.0000	OK	007	IC-0109-S	0.9	0.524	0.043	0.0184	
600 minute winter	IC-0109-S	315	0.925	0.025	1.2	0.0560	0.0000	OK	008	IC-0110-S	1.2	0.567	0.061	0.0435	
600 minute winter	IC-0110-S	315	0.678	0.028	1.4	0.1253	0.0000	OK	009	MH-0111-S	1.4	0.523	0.078	0.0391	
600 minute winter	MH-0111-S	315	0.535	0.035	2.3	0.0994	0.0000	OK	010	MH-0112-S	2.3	0.517	0.028	0.0841	
600 minute winter	MH-0112-S	375	0.443	0.093	2.7	3.0810	0.0000	OK	011	MH-0113-S	4.5	0.450	0.047	0.2793	
600 minute winter	MH-0113-S	390	0.443	0.163	6.4	1.1024	0.0000	OK	013	MH-0106-S	4.1	0.469	0.045	0.4295	
600 minute winter	MH-0114-S	375	0.444	0.064	1.2	0.4784	0.0000	OK	012	MH-0113-S	1.7	0.188	0.022	0.5308	
600 minute winter	MH-0115-S	390	0.443	0.283	3.4	0.3205	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
600 minute winter	DITCH	480	0.107	0.037	2.5	0.0000	0.0000	OK							
600 minute winter	DUMMY	480	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	50.2

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Results for 5 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	IC-0101-S	375	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.346	0.016	0.0133	
720 minute summer	IC-0102-S	375	0.967	0.017	0.5	0.0517	0.0000	OK	002	IC-0103-S	0.5	0.394	0.028	0.0187	
720 minute summer	IC-0103-S	375	0.820	0.020	0.7	0.0059	0.0000	OK	016	MH-0111-S	0.7	0.495	0.039	0.0286	
720 minute summer	MH-0106-S	435	0.439	0.219	3.4	0.2476	0.0000	OK	014	MH-0115-S	2.8	0.170	0.038	0.8294	
720 minute summer	IC-0107-S	375	1.220	0.020	0.7	0.1371	0.0000	OK	006	IC-0108-S	0.7	0.459	0.039	0.0229	
720 minute summer	IC-0108-S	375	1.072	0.022	1.0	0.0421	0.0000	OK	007	IC-0109-S	1.0	0.545	0.047	0.0196	
720 minute summer	IC-0109-S	375	0.926	0.026	1.3	0.0582	0.0000	OK	008	IC-0110-S	1.3	0.583	0.066	0.0458	
720 minute summer	IC-0110-S	375	0.679	0.029	1.5	0.1296	0.0000	OK	009	MH-0111-S	1.5	0.531	0.083	0.0412	
720 minute summer	MH-0111-S	375	0.536	0.036	2.5	0.1035	0.0000	OK	010	MH-0112-S	2.5	0.529	0.030	0.0835	
720 minute summer	MH-0112-S	420	0.442	0.092	2.9	3.0425	0.0000	OK	011	MH-0113-S	3.1	0.490	0.033	0.2728	
720 minute summer	MH-0113-S	435	0.439	0.159	4.4	1.0788	0.0000	OK	013	MH-0106-S	3.4	0.470	0.038	0.4197	
720 minute summer	MH-0114-S	420	0.443	0.063	1.1	0.4692	0.0000	OK	012	MH-0113-S	1.1	0.252	0.015	0.5186	
720 minute summer	MH-0115-S	435	0.439	0.279	2.8	0.3152	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
720 minute summer	DITCH	345	0.107	0.037	2.5	0.0000	0.0000	OK							
720 minute summer	DUMMY	345	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	42.7

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Results for 5 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	IC-0101-S	315	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.327	0.011	0.0096	
720 minute winter	IC-0102-S	315	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
720 minute winter	IC-0103-S	315	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
720 minute winter	MH-0106-S	435	0.364	0.144	6.8	0.1631	0.0000	OK	014	MH-0115-S	4.7	0.194	0.064	0.5760	
720 minute winter	IC-0107-S	360	1.217	0.017	0.5	0.1169	0.0000	OK	006	IC-0108-S	0.5	0.418	0.028	0.0180	
720 minute winter	IC-0108-S	360	1.069	0.019	0.7	0.0355	0.0000	OK	007	IC-0109-S	0.7	0.492	0.033	0.0152	
720 minute winter	IC-0109-S	360	0.922	0.022	0.9	0.0487	0.0000	OK	008	IC-0110-S	0.9	0.531	0.046	0.0349	
720 minute winter	IC-0110-S	375	0.674	0.024	1.0	0.1064	0.0000	OK	009	MH-0111-S	1.0	0.477	0.055	0.0306	
720 minute winter	MH-0111-S	360	0.529	0.029	1.6	0.0834	0.0000	OK	010	MH-0112-S	1.6	0.464	0.019	0.0609	
720 minute winter	MH-0112-S	345	0.379	0.029	1.8	0.9174	0.0000	OK	011	MH-0113-S	1.8	0.450	0.019	0.0924	
720 minute winter	MH-0113-S	420	0.362	0.082	3.7	0.5566	0.0000	OK	013	MH-0106-S	6.8	0.464	0.075	0.2106	
720 minute winter	MH-0114-S	375	0.399	0.019	0.6	0.1429	0.0000	OK	012	MH-0113-S	0.6	0.224	0.008	0.1852	
720 minute winter	MH-0115-S	435	0.368	0.208	4.7	0.2354	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
720 minute winter	DITCH	360	0.107	0.037	2.5	0.0000	0.0000	OK							
720 minute winter	DUMMY	360	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0850	48.0

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Results for 5 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	IC-0101-S	495	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0121	
960 minute summer	IC-0102-S	495	0.966	0.016	0.4	0.0465	0.0000	OK	002	IC-0103-S	0.4	0.359	0.022	0.0164	
960 minute summer	IC-0103-S	495	0.819	0.019	0.6	0.0055	0.0000	OK	016	MH-0111-S	0.6	0.472	0.033	0.0257	
960 minute summer	MH-0106-S	540	0.392	0.172	4.8	0.1947	0.0000	OK	014	MH-0115-S	4.4	0.169	0.059	0.6774	
960 minute summer	IC-0107-S	495	1.217	0.017	0.5	0.1169	0.0000	OK	006	IC-0108-S	0.5	0.417	0.028	0.0189	
960 minute summer	IC-0108-S	495	1.070	0.020	0.8	0.0378	0.0000	OK	007	IC-0109-S	0.8	0.499	0.038	0.0171	
960 minute summer	IC-0109-S	495	0.924	0.024	1.1	0.0537	0.0000	OK	008	IC-0110-S	1.1	0.551	0.056	0.0411	
960 minute summer	IC-0110-S	495	0.677	0.027	1.3	0.1209	0.0000	OK	009	MH-0111-S	1.3	0.505	0.072	0.0376	
960 minute summer	MH-0111-S	495	0.534	0.034	2.2	0.0974	0.0000	OK	010	MH-0112-S	2.2	0.510	0.026	0.0763	
960 minute summer	MH-0112-S	525	0.389	0.039	2.5	1.2541	0.0000	OK	011	MH-0113-S	3.5	0.487	0.037	0.1390	
960 minute summer	MH-0113-S	525	0.389	0.109	4.2	0.7394	0.0000	OK	013	MH-0106-S	4.8	0.464	0.053	0.2926	
960 minute summer	MH-0114-S	495	0.399	0.019	0.6	0.1429	0.0000	OK	012	MH-0113-S	0.6	0.252	0.008	0.2660	
960 minute summer	MH-0115-S	540	0.394	0.234	4.4	0.2644	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
960 minute summer	DITCH	480	0.107	0.037	2.5	0.0000	0.0000	OK							
960 minute summer	DUMMY	480	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	42.6

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Results for 5 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	IC-0101-S	435	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.327	0.011	0.0096	
960 minute winter	IC-0102-S	435	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
960 minute winter	IC-0103-S	435	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
960 minute winter	MH-0106-S	495	0.283	0.063	2.4	0.0709	0.0000	OK	014	MH-0115-S	2.4	0.194	0.032	0.2531	
960 minute winter	IC-0107-S	480	1.216	0.016	0.4	0.1052	0.0000	OK	006	IC-0108-S	0.4	0.382	0.023	0.0158	
960 minute winter	IC-0108-S	465	1.067	0.017	0.6	0.0330	0.0000	OK	007	IC-0109-S	0.6	0.463	0.028	0.0138	
960 minute winter	IC-0109-S	465	0.921	0.021	0.8	0.0460	0.0000	OK	008	IC-0110-S	0.8	0.509	0.041	0.0323	
960 minute winter	IC-0110-S	480	0.673	0.023	0.9	0.1011	0.0000	OK	009	MH-0111-S	0.9	0.455	0.050	0.0289	
960 minute winter	MH-0111-S	480	0.528	0.028	1.5	0.0809	0.0000	OK	010	MH-0112-S	1.5	0.456	0.018	0.0582	
960 minute winter	MH-0112-S	540	0.378	0.028	1.7	0.8986	0.0000	OK	011	MH-0113-S	1.7	0.455	0.018	0.0369	
960 minute winter	MH-0113-S	495	0.313	0.033	2.4	0.2266	0.0000	OK	013	MH-0106-S	2.4	0.464	0.027	0.0673	
960 minute winter	MH-0114-S	495	0.397	0.017	0.5	0.1309	0.0000	OK	012	MH-0113-S	0.5	0.224	0.007	0.0633	
960 minute winter	MH-0115-S	495	0.282	0.122	2.4	0.1383	0.0000	OK	Hydro-Brake®	DUMMY	2.4				
960 minute winter	DITCH	495	0.106	0.036	2.4	0.0000	0.0000	OK							
960 minute winter	DUMMY	495	0.187	0.037	2.4	0.0418	0.0000	OK	017	DITCH	2.4	0.492	0.031	0.0824	50.7

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Results for 5 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	IC-0101-S	720	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.294	0.011	0.0096	
1440 minute summer	IC-0102-S	720	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
1440 minute summer	IC-0103-S	720	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
1440 minute summer	MH-0106-S	750	0.277	0.057	2.3	0.0642	0.0000	OK	014	MH-0115-S	2.3	0.169	0.031	0.2317	
1440 minute summer	IC-0107-S	750	1.216	0.016	0.4	0.1052	0.0000	OK	006	IC-0108-S	0.4	0.382	0.023	0.0158	
1440 minute summer	IC-0108-S	750	1.067	0.017	0.6	0.0330	0.0000	OK	007	IC-0109-S	0.6	0.463	0.028	0.0138	
1440 minute summer	IC-0109-S	750	0.921	0.021	0.8	0.0460	0.0000	OK	008	IC-0110-S	0.8	0.509	0.041	0.0323	
1440 minute summer	IC-0110-S	750	0.673	0.023	0.9	0.1011	0.0000	OK	009	MH-0111-S	0.9	0.455	0.050	0.0289	
1440 minute summer	MH-0111-S	750	0.528	0.028	1.5	0.0809	0.0000	OK	010	MH-0112-S	1.5	0.456	0.018	0.0582	
1440 minute summer	MH-0112-S	750	0.378	0.028	1.7	0.8986	0.0000	OK	011	MH-0113-S	1.7	0.455	0.018	0.0364	
1440 minute summer	MH-0113-S	750	0.313	0.033	2.3	0.2222	0.0000	OK	013	MH-0106-S	2.3	0.451	0.025	0.0604	
1440 minute summer	MH-0114-S	750	0.396	0.016	0.4	0.1179	0.0000	OK	012	MH-0113-S	0.4	0.237	0.005	0.0594	
1440 minute summer	MH-0115-S	750	0.276	0.116	2.3	0.1315	0.0000	OK	Hydro-Brake®	DUMMY	2.3				
1440 minute summer	DITCH	750	0.105	0.035	2.3	0.0000	0.0000	OK							
1440 minute summer	DUMMY	750	0.186	0.036	2.3	0.0410	0.0000	OK	017	DITCH	2.3	0.487	0.030	0.0800	41.7

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Results for 5 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	IC-0101-S	930	1.108	0.008	0.1	0.0267	0.0000	OK	001	IC-0102-S	0.1	0.275	0.005	0.0067	
1440 minute winter	IC-0102-S	630	0.961	0.011	0.2	0.0336	0.0000	OK	002	IC-0103-S	0.2	0.291	0.011	0.0101	
1440 minute winter	IC-0103-S	630	0.814	0.014	0.3	0.0040	0.0000	OK	016	MH-0111-S	0.3	0.384	0.017	0.0158	
1440 minute winter	MH-0106-S	750	0.250	0.030	1.6	0.0343	0.0000	OK	014	MH-0115-S	1.6	0.168	0.022	0.1369	
1440 minute winter	IC-0107-S	720	1.214	0.014	0.3	0.0919	0.0000	OK	006	IC-0108-S	0.3	0.365	0.017	0.0124	
1440 minute winter	IC-0108-S	720	1.064	0.014	0.4	0.0272	0.0000	OK	007	IC-0109-S	0.4	0.419	0.019	0.0102	
1440 minute winter	IC-0109-S	720	0.917	0.017	0.5	0.0369	0.0000	OK	008	IC-0110-S	0.5	0.431	0.026	0.0238	
1440 minute winter	IC-0110-S	720	0.669	0.019	0.6	0.0833	0.0000	OK	009	MH-0111-S	0.6	0.401	0.033	0.0219	
1440 minute winter	MH-0111-S	720	0.523	0.023	1.0	0.0668	0.0000	OK	010	MH-0112-S	1.0	0.404	0.012	0.0437	
1440 minute winter	MH-0112-S	750	0.373	0.023	1.1	0.7230	0.0000	OK	011	MH-0113-S	1.1	0.389	0.012	0.0279	
1440 minute winter	MH-0113-S	750	0.308	0.028	1.6	0.1905	0.0000	OK	013	MH-0106-S	1.6	0.456	0.018	0.0316	
1440 minute winter	MH-0114-S	690	0.394	0.014	0.3	0.1036	0.0000	OK	012	MH-0113-S	0.3	0.237	0.004	0.0477	
1440 minute winter	MH-0115-S	750	0.246	0.086	1.6	0.0972	0.0000	OK	Hydro-Brake®	DUMMY	1.6				
1440 minute winter	DITCH	750	0.099	0.029	1.6	0.0000	0.0000	OK							
1440 minute winter	DUMMY	750	0.181	0.031	1.6	0.0345	0.0000	OK	017	DITCH	1.6	0.441	0.021	0.0615	51.4

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Results for 10 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0101-S	13	1.136	0.036	2.3	0.1187	0.0000	OK	001	IC-0102-S	2.3	0.608	0.125	0.0531	
15 minute summer	IC-0102-S	13	0.994	0.044	3.4	0.1329	0.0000	OK	002	IC-0103-S	3.4	0.681	0.188	0.0730	
15 minute summer	IC-0103-S	14	0.853	0.053	4.7	0.0155	0.0000	OK	016	MH-0111-S	4.7	0.850	0.259	0.1113	
15 minute summer	MH-0106-S	27	0.570	0.350	12.1	0.3961	0.0000	SURCHARGED	014	MH-0115-S	8.8	0.418	0.119	0.9471	
15 minute summer	IC-0107-S	13	1.254	0.054	4.7	0.3606	0.0000	OK	006	IC-0108-S	4.7	0.753	0.264	0.0937	
15 minute summer	IC-0108-S	13	1.112	0.062	7.0	0.1168	0.0000	OK	007	IC-0109-S	7.0	0.902	0.329	0.0820	
15 minute summer	IC-0109-S	13	0.974	0.074	9.3	0.1638	0.0000	OK	008	IC-0110-S	9.2	0.967	0.470	0.1963	
15 minute summer	IC-0110-S	14	0.737	0.087	10.5	0.3853	0.0000	OK	009	MH-0111-S	10.5	0.928	0.582	0.1646	
15 minute summer	MH-0111-S	14	0.597	0.097	17.4	0.2779	0.0000	OK	010	MH-0112-S	17.4	0.915	0.208	0.4747	
15 minute summer	MH-0112-S	24	0.570	0.220	19.6	7.8169	0.0000	OK	011	MH-0113-S	11.6	0.603	0.123	0.6052	
15 minute summer	MH-0113-S	26	0.569	0.289	19.5	1.9553	0.0000	OK	013	MH-0106-S	12.1	0.724	0.133	0.6311	
15 minute summer	MH-0114-S	23	0.574	0.194	6.7	1.4505	0.0000	OK	012	MH-0113-S	5.2	0.506	0.068	1.2539	
15 minute summer	MH-0115-S	20	0.575	0.415	8.8	0.4695	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
15 minute summer	DITCH	24	0.109	0.039	2.8	0.0000	0.0000	OK							
15 minute summer	DUMMY	25	0.190	0.040	2.8	0.0450	0.0000	OK	017	DITCH	2.8	0.513	0.037	0.0921	18.9

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Results for 10 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	14	1.137	0.037	2.5	0.1239	0.0000	OK	001	IC-0102-S	2.5	0.617	0.136	0.0573	
15 minute winter	IC-0102-S	14	0.997	0.047	3.8	0.1417	0.0000	OK	002	IC-0103-S	3.8	0.699	0.212	0.0799	
15 minute winter	IC-0103-S	14	0.857	0.057	5.3	0.0166	0.0000	OK	016	MH-0111-S	5.3	0.879	0.293	0.1219	
15 minute winter	MH-0106-S	26	0.593	0.373	14.5	0.4221	0.0000	SURCHARGED	014	MH-0115-S	8.5	0.417	0.114	0.9471	
15 minute winter	IC-0107-S	13	1.257	0.057	5.3	0.3858	0.0000	OK	006	IC-0108-S	5.3	0.774	0.297	0.1024	
15 minute winter	IC-0108-S	14	1.116	0.066	7.8	0.1247	0.0000	OK	007	IC-0109-S	7.8	0.926	0.368	0.0893	
15 minute winter	IC-0109-S	14	0.979	0.079	10.3	0.1749	0.0000	OK	008	IC-0110-S	10.3	0.984	0.524	0.2150	
15 minute winter	IC-0110-S	14	0.744	0.094	11.8	0.4162	0.0000	OK	009	MH-0111-S	11.7	0.955	0.650	0.1784	
15 minute winter	MH-0111-S	14	0.603	0.103	19.5	0.2956	0.0000	OK	010	MH-0112-S	19.4	0.942	0.233	0.6140	
15 minute winter	MH-0112-S	23	0.600	0.250	25.6	9.0192	0.0000	OK	011	MH-0113-S	13.2	0.612	0.140	0.6473	
15 minute winter	MH-0113-S	24	0.595	0.315	22.2	2.1316	0.0000	SURCHARGED	013	MH-0106-S	14.5	0.676	0.161	0.6348	
15 minute winter	MH-0114-S	22	0.602	0.222	8.8	1.6600	0.0000	OK	012	MH-0113-S	5.7	0.509	0.076	1.3523	
15 minute winter	MH-0115-S	26	0.593	0.433	8.5	0.4901	0.0000	OK	Hydro-Brake®	DUMMY	2.9				
15 minute winter	DITCH	24	0.110	0.040	2.9	0.0000	0.0000	OK							
15 minute winter	DUMMY	25	0.190	0.040	2.9	0.0457	0.0000	OK	017	DITCH	2.9	0.518	0.038	0.0943	21.1

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Results for 10 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	IC-0101-S	21	1.136	0.036	2.3	0.1188	0.0000	OK	001	IC-0102-S	2.3	0.609	0.125	0.0532	
30 minute summer	IC-0102-S	21	0.994	0.044	3.4	0.1333	0.0000	OK	002	IC-0103-S	3.4	0.682	0.189	0.0731	
30 minute summer	IC-0103-S	22	0.853	0.053	4.7	0.0155	0.0000	OK	016	MH-0111-S	4.7	0.851	0.259	0.1115	
30 minute summer	MH-0106-S	35	0.624	0.404	13.3	0.4573	0.0000	SURCHARGED	014	MH-0115-S	8.3	0.349	0.112	0.9471	
30 minute summer	IC-0107-S	21	1.254	0.054	4.8	0.3630	0.0000	OK	006	IC-0108-S	4.7	0.754	0.267	0.0945	
30 minute summer	IC-0108-S	21	1.112	0.062	7.0	0.1175	0.0000	OK	007	IC-0109-S	7.0	0.906	0.333	0.0827	
30 minute summer	IC-0109-S	21	0.974	0.074	9.3	0.1647	0.0000	OK	008	IC-0110-S	9.3	0.968	0.475	0.1977	
30 minute summer	IC-0110-S	22	0.737	0.087	10.6	0.3872	0.0000	OK	009	MH-0111-S	10.6	0.939	0.587	0.1659	
30 minute summer	MH-0111-S	36	0.623	0.123	17.5	0.3518	0.0000	OK	010	MH-0112-S	17.7	0.914	0.212	0.7297	
30 minute summer	MH-0112-S	36	0.620	0.270	20.5	9.8725	0.0000	OK	011	MH-0113-S	12.2	0.589	0.129	0.6676	
30 minute summer	MH-0113-S	35	0.623	0.343	22.0	2.3212	0.0000	SURCHARGED	013	MH-0106-S	13.3	0.608	0.147	0.6348	
30 minute summer	MH-0114-S	35	0.621	0.241	9.3	1.8059	0.0000	OK	012	MH-0113-S	7.1	0.392	0.095	1.4045	
30 minute summer	MH-0115-S	35	0.625	0.465	8.3	0.5264	0.0000	OK	Hydro-Brake®	DUMMY	2.9				
30 minute summer	DITCH	37	0.110	0.040	2.9	0.0000	0.0000	OK							
30 minute summer	DUMMY	37	0.191	0.041	2.9	0.0462	0.0000	OK	017	DITCH	2.9	0.520	0.039	0.0955	24.3

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Results for 10 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	IC-0101-S	21	1.137	0.037	2.4	0.1214	0.0000	OK	001	IC-0102-S	2.4	0.613	0.131	0.0553	
30 minute winter	IC-0102-S	21	0.996	0.046	3.6	0.1375	0.0000	OK	002	IC-0103-S	3.6	0.690	0.200	0.0765	
30 minute winter	IC-0103-S	21	0.855	0.055	5.0	0.0161	0.0000	OK	016	MH-0111-S	5.0	0.864	0.275	0.1165	
30 minute winter	MH-0106-S	34	0.661	0.441	12.9	0.4990	0.0000	SURCHARGED	014	MH-0115-S	9.1	0.355	0.122	0.9471	
30 minute winter	IC-0107-S	21	1.255	0.055	5.0	0.3715	0.0000	OK	006	IC-0108-S	4.9	0.761	0.278	0.0977	
30 minute winter	IC-0108-S	21	1.114	0.064	7.3	0.1205	0.0000	OK	007	IC-0109-S	7.3	0.914	0.347	0.0855	
30 minute winter	IC-0109-S	21	0.976	0.076	9.7	0.1690	0.0000	OK	008	IC-0110-S	9.7	0.974	0.496	0.2050	
30 minute winter	IC-0110-S	22	0.740	0.090	11.1	0.3985	0.0000	OK	009	MH-0111-S	11.0	0.961	0.612	0.1710	
30 minute winter	MH-0111-S	37	0.661	0.161	18.4	0.4599	0.0000	OK	010	MH-0112-S	18.8	0.916	0.225	0.9113	
30 minute winter	MH-0112-S	36	0.660	0.310	22.7	11.5486	0.0000	SURCHARGED	011	MH-0113-S	12.1	0.598	0.128	0.6850	
30 minute winter	MH-0113-S	36	0.661	0.381	21.6	2.5754	0.0000	SURCHARGED	013	MH-0106-S	12.9	0.609	0.142	0.6348	
30 minute winter	MH-0114-S	36	0.660	0.280	9.1	2.0965	0.0000	OK	012	MH-0113-S	6.5	0.393	0.086	1.4874	
30 minute winter	MH-0115-S	34	0.662	0.502	9.1	0.5677	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
30 minute winter	DITCH	36	0.111	0.041	3.1	0.0000	0.0000	OK							
30 minute winter	DUMMY	36	0.192	0.042	3.1	0.0471	0.0000	OK	017	DITCH	3.1	0.527	0.040	0.0984	27.2

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Results for 10 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	IC-0101-S	35	1.133	0.033	2.0	0.1095	0.0000	OK	001	IC-0102-S	1.9	0.579	0.106	0.0476	
60 minute summer	IC-0102-S	36	0.991	0.041	2.9	0.1237	0.0000	OK	002	IC-0103-S	3.0	0.660	0.164	0.0657	
60 minute summer	IC-0103-S	36	0.849	0.049	4.1	0.0143	0.0000	OK	016	MH-0111-S	4.0	0.816	0.223	0.0999	
60 minute summer	MH-0106-S	60	0.649	0.429	8.3	0.4849	0.0000	SURCHARGED	014	MH-0115-S	5.0	0.302	0.067	0.9471	
60 minute summer	IC-0107-S	36	1.249	0.049	4.1	0.3326	0.0000	OK	006	IC-0108-S	4.0	0.729	0.228	0.0834	
60 minute summer	IC-0108-S	36	1.106	0.056	6.0	0.1066	0.0000	OK	007	IC-0109-S	6.0	0.874	0.283	0.0727	
60 minute summer	IC-0109-S	36	0.967	0.067	7.9	0.1494	0.0000	OK	008	IC-0110-S	7.9	0.937	0.404	0.1738	
60 minute summer	IC-0110-S	36	0.728	0.078	9.0	0.3471	0.0000	OK	009	MH-0111-S	9.0	0.913	0.497	0.1489	
60 minute summer	MH-0111-S	61	0.649	0.149	14.9	0.4273	0.0000	OK	010	MH-0112-S	15.4	0.854	0.185	0.8595	
60 minute summer	MH-0112-S	61	0.648	0.298	17.3	11.0467	0.0000	OK	011	MH-0113-S	9.5	0.535	0.101	0.6846	
60 minute summer	MH-0113-S	60	0.649	0.369	12.1	2.4939	0.0000	SURCHARGED	013	MH-0106-S	8.3	0.532	0.092	0.6348	
60 minute summer	MH-0114-S	60	0.649	0.269	6.2	2.0148	0.0000	OK	012	MH-0113-S	3.5	0.300	0.046	1.4680	
60 minute summer	MH-0115-S	60	0.649	0.489	5.0	0.5527	0.0000	OK	Hydro-Brake®	DUMMY	3.0				
60 minute summer	DITCH	60	0.110	0.040	3.0	0.0000	0.0000	OK							
60 minute summer	DUMMY	60	0.191	0.041	3.0	0.0468	0.0000	OK	017	DITCH	3.0	0.525	0.040	0.0975	30.0

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Results for 10 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	IC-0101-S	35	1.131	0.031	1.8	0.1037	0.0000	OK	001	IC-0102-S	1.7	0.561	0.095	0.0440	
60 minute winter	IC-0102-S	36	0.989	0.039	2.6	0.1169	0.0000	OK	002	IC-0103-S	2.7	0.641	0.148	0.0608	
60 minute winter	IC-0103-S	36	0.847	0.047	3.7	0.0136	0.0000	OK	016	MH-0111-S	3.6	0.794	0.201	0.1434	
60 minute winter	MH-0106-S	61	0.692	0.472	8.0	0.5342	0.0000	SURCHARGED	014	MH-0115-S	5.8	0.318	0.079	0.9471	
60 minute winter	IC-0107-S	36	1.247	0.047	3.7	0.3145	0.0000	OK	006	IC-0108-S	3.6	0.712	0.205	0.0770	
60 minute winter	IC-0108-S	35	1.103	0.053	5.4	0.1005	0.0000	OK	007	IC-0109-S	5.4	0.854	0.255	0.0671	
60 minute winter	IC-0109-S	36	0.963	0.063	7.2	0.1405	0.0000	OK	008	IC-0110-S	7.1	0.915	0.364	0.1604	
60 minute winter	IC-0110-S	36	0.723	0.073	8.1	0.3258	0.0000	OK	009	MH-0111-S	8.1	0.889	0.449	0.1705	
60 minute winter	MH-0111-S	62	0.693	0.193	13.4	0.5518	0.0000	OK	010	MH-0112-S	13.6	0.817	0.163	1.0404	
60 minute winter	MH-0112-S	62	0.692	0.342	16.8	12.9821	0.0000	SURCHARGED	011	MH-0113-S	7.7	0.545	0.082	0.6850	
60 minute winter	MH-0113-S	61	0.692	0.412	11.6	2.7908	0.0000	SURCHARGED	013	MH-0106-S	8.0	0.548	0.088	0.6348	
60 minute winter	MH-0114-S	61	0.693	0.313	6.5	2.3440	0.0000	SURCHARGED	012	MH-0113-S	5.0	0.315	0.066	1.5089	
60 minute winter	MH-0115-S	61	0.692	0.532	5.8	0.6019	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
60 minute winter	DITCH	61	0.111	0.041	3.1	0.0000	0.0000	OK							
60 minute winter	DUMMY	61	0.192	0.042	3.1	0.0478	0.0000	OK	017	DITCH	3.1	0.531	0.041	0.1005	33.4

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Results for 10 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	IC-0101-S	66	1.129	0.029	1.5	0.0961	0.0000	OK	001	IC-0102-S	1.5	0.543	0.082	0.0389	
120 minute summer	IC-0102-S	66	0.985	0.035	2.2	0.1060	0.0000	OK	002	IC-0103-S	2.2	0.604	0.122	0.0534	
120 minute summer	IC-0103-S	66	0.843	0.043	3.1	0.0124	0.0000	OK	016	MH-0111-S	3.1	0.758	0.170	0.1073	
120 minute summer	MH-0106-S	94	0.668	0.448	5.8	0.5071	0.0000	SURCHARGED	014	MH-0115-S	3.9	0.279	0.052	0.9471	
120 minute summer	IC-0107-S	66	1.243	0.043	3.1	0.2882	0.0000	OK	006	IC-0108-S	3.1	0.682	0.174	0.0682	
120 minute summer	IC-0108-S	66	1.099	0.049	4.6	0.0920	0.0000	OK	007	IC-0109-S	4.6	0.822	0.217	0.0594	
120 minute summer	IC-0109-S	66	0.958	0.058	6.1	0.1283	0.0000	OK	008	IC-0110-S	6.1	0.880	0.310	0.1419	
120 minute summer	IC-0110-S	66	0.717	0.067	7.0	0.2961	0.0000	OK	009	MH-0111-S	6.9	0.850	0.384	0.1578	
120 minute summer	MH-0111-S	92	0.668	0.168	11.5	0.4824	0.0000	OK	010	MH-0112-S	11.5	0.778	0.138	0.9467	
120 minute summer	MH-0112-S	94	0.668	0.318	13.4	11.9228	0.0000	SURCHARGED	011	MH-0113-S	6.2	0.489	0.066	0.6850	
120 minute summer	MH-0113-S	94	0.668	0.388	9.2	2.6277	0.0000	SURCHARGED	013	MH-0106-S	5.8	0.484	0.064	0.6348	
120 minute summer	MH-0114-S	94	0.668	0.288	4.6	2.1580	0.0000	OK	012	MH-0113-S	3.3	0.266	0.044	1.4991	
120 minute summer	MH-0115-S	94	0.668	0.508	3.9	0.5748	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
120 minute summer	DITCH	94	0.111	0.041	3.1	0.0000	0.0000	OK							
120 minute summer	DUMMY	94	0.192	0.042	3.1	0.0473	0.0000	OK	017	DITCH	3.1	0.528	0.040	0.0989	38.8

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Results for 10 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	IC-0101-S	68	1.126	0.026	1.2	0.0862	0.0000	OK	001	IC-0102-S	1.2	0.504	0.065	0.0336	
120 minute winter	IC-0102-S	68	0.982	0.032	1.8	0.0960	0.0000	OK	002	IC-0103-S	1.8	0.574	0.100	0.0461	
120 minute winter	IC-0103-S	68	0.838	0.038	2.5	0.0111	0.0000	OK	016	MH-0111-S	2.5	0.715	0.138	0.1722	
120 minute winter	MH-0106-S	100	0.715	0.495	5.3	0.5601	0.0000	SURCHARGED	014	MH-0115-S	4.0	0.288	0.054	0.9471	
120 minute winter	IC-0107-S	66	1.238	0.038	2.5	0.2577	0.0000	OK	006	IC-0108-S	2.5	0.647	0.141	0.0580	
120 minute winter	IC-0108-S	66	1.093	0.043	3.7	0.0816	0.0000	OK	007	IC-0109-S	3.7	0.779	0.175	0.0505	
120 minute winter	IC-0109-S	66	0.951	0.051	4.9	0.1139	0.0000	OK	008	IC-0110-S	4.9	0.837	0.249	0.1200	
120 minute winter	IC-0110-S	98	0.716	0.066	5.6	0.2922	0.0000	OK	009	MH-0111-S	5.6	0.798	0.310	0.1823	
120 minute winter	MH-0111-S	100	0.715	0.215	9.3	0.6169	0.0000	OK	010	MH-0112-S	9.3	0.714	0.111	1.1006	
120 minute winter	MH-0112-S	100	0.715	0.365	10.6	14.0119	0.0000	SURCHARGED	011	MH-0113-S	6.5	0.496	0.069	0.6850	
120 minute winter	MH-0113-S	100	0.715	0.435	9.6	2.9458	0.0000	SURCHARGED	013	MH-0106-S	5.3	0.486	0.059	0.6348	
120 minute winter	MH-0114-S	100	0.715	0.335	3.7	2.5121	0.0000	SURCHARGED	012	MH-0113-S	2.5	0.273	0.033	1.5089	
120 minute winter	MH-0115-S	100	0.715	0.555	4.0	0.6278	0.0000	OK	Hydro-Brake®	DUMMY	3.2				
120 minute winter	DITCH	100	0.112	0.042	3.2	0.0000	0.0000	OK							
120 minute winter	DUMMY	100	0.193	0.043	3.2	0.0482	0.0000	OK	017	DITCH	3.2	0.535	0.042	0.1019	42.9

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Results for 10 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	IC-0101-S	96	1.126	0.026	1.2	0.0856	0.0000	OK	001	IC-0102-S	1.2	0.504	0.064	0.0330	
180 minute summer	IC-0102-S	96	0.982	0.032	1.8	0.0946	0.0000	OK	002	IC-0103-S	1.7	0.570	0.097	0.0450	
180 minute summer	IC-0103-S	96	0.838	0.038	2.4	0.0109	0.0000	OK	016	MH-0111-S	2.4	0.706	0.133	0.0962	
180 minute summer	MH-0106-S	132	0.662	0.442	5.7	0.4994	0.0000	SURCHARGED	014	MH-0115-S	4.1	0.261	0.055	0.9471	
180 minute summer	IC-0107-S	96	1.237	0.037	2.4	0.2511	0.0000	OK	006	IC-0108-S	2.4	0.636	0.134	0.0562	
180 minute summer	IC-0108-S	96	1.092	0.042	3.6	0.0800	0.0000	OK	007	IC-0109-S	3.6	0.770	0.168	0.0492	
180 minute summer	IC-0109-S	96	0.950	0.050	4.8	0.1120	0.0000	OK	008	IC-0110-S	4.7	0.831	0.241	0.1168	
180 minute summer	IC-0110-S	96	0.707	0.057	5.4	0.2544	0.0000	OK	009	MH-0111-S	5.3	0.788	0.296	0.1526	
180 minute summer	MH-0111-S	132	0.662	0.162	8.9	0.4639	0.0000	OK	010	MH-0112-S	8.9	0.688	0.106	0.9190	
180 minute summer	MH-0112-S	132	0.662	0.312	10.1	11.6351	0.0000	SURCHARGED	011	MH-0113-S	5.1	0.492	0.055	0.6850	
180 minute summer	MH-0113-S	132	0.662	0.382	9.6	2.5822	0.0000	SURCHARGED	013	MH-0106-S	5.7	0.474	0.064	0.6348	
180 minute summer	MH-0114-S	132	0.661	0.281	4.0	2.1087	0.0000	OK	012	MH-0113-S	2.9	0.265	0.039	1.4900	
180 minute summer	MH-0115-S	132	0.661	0.501	4.1	0.5671	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
180 minute summer	DITCH	132	0.111	0.041	3.1	0.0000	0.0000	OK							
180 minute summer	DUMMY	132	0.192	0.042	3.1	0.0471	0.0000	OK	017	DITCH	3.1	0.527	0.040	0.0984	43.7

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Results for 10 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	IC-0101-S	100	1.123	0.023	0.9	0.0750	0.0000	OK	001	IC-0102-S	0.9	0.467	0.049	0.0277	
180 minute winter	IC-0102-S	96	0.978	0.028	1.4	0.0843	0.0000	OK	002	IC-0103-S	1.4	0.538	0.077	0.0377	
180 minute winter	IC-0103-S	96	0.833	0.033	1.9	0.0096	0.0000	OK	016	MH-0111-S	1.9	0.658	0.103	0.1582	
180 minute winter	MH-0106-S	140	0.704	0.484	6.3	0.5474	0.0000	SURCHARGED	014	MH-0115-S	3.9	0.253	0.053	0.9471	
180 minute winter	IC-0107-S	100	1.233	0.033	1.9	0.2240	0.0000	OK	006	IC-0108-S	1.9	0.604	0.107	0.0474	
180 minute winter	IC-0108-S	100	1.087	0.037	2.8	0.0705	0.0000	OK	007	IC-0109-S	2.8	0.726	0.133	0.0411	
180 minute winter	IC-0109-S	100	0.944	0.044	3.7	0.0983	0.0000	OK	008	IC-0110-S	3.7	0.786	0.189	0.0971	
180 minute winter	IC-0110-S	140	0.705	0.055	4.2	0.2418	0.0000	OK	009	MH-0111-S	4.3	0.736	0.236	0.1702	
180 minute winter	MH-0111-S	140	0.704	0.204	7.0	0.5851	0.0000	OK	010	MH-0112-S	6.9	0.651	0.083	1.0737	
180 minute winter	MH-0112-S	140	0.704	0.354	7.9	13.5100	0.0000	SURCHARGED	011	MH-0113-S	5.6	0.475	0.060	0.6850	
180 minute winter	MH-0113-S	140	0.704	0.424	9.5	2.8697	0.0000	SURCHARGED	013	MH-0106-S	6.3	0.482	0.069	0.6348	
180 minute winter	MH-0114-S	140	0.704	0.324	2.6	2.4279	0.0000	SURCHARGED	012	MH-0113-S	2.8	0.232	0.037	1.5089	
180 minute winter	MH-0115-S	140	0.704	0.544	3.9	0.6151	0.0000	OK	Hydro-Brake®	DUMMY	3.2				
180 minute winter	DITCH	140	0.111	0.041	3.2	0.0000	0.0000	OK							
180 minute winter	DUMMY	140	0.192	0.042	3.2	0.0480	0.0000	OK	017	DITCH	3.2	0.533	0.042	0.1012	48.8

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Results for 10 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	IC-0101-S	128	1.124	0.024	1.0	0.0789	0.0000	OK	001	IC-0102-S	1.0	0.478	0.054	0.0295	
240 minute summer	IC-0102-S	128	0.979	0.029	1.5	0.0878	0.0000	OK	002	IC-0103-S	1.5	0.543	0.084	0.0406	
240 minute summer	IC-0103-S	128	0.835	0.035	2.1	0.0102	0.0000	OK	016	MH-0111-S	2.1	0.681	0.116	0.0794	
240 minute summer	MH-0106-S	164	0.651	0.431	5.7	0.4871	0.0000	SURCHARGED	014	MH-0115-S	4.2	0.244	0.057	0.9471	
240 minute summer	IC-0107-S	128	1.234	0.034	2.0	0.2296	0.0000	OK	006	IC-0108-S	2.0	0.609	0.113	0.0495	
240 minute summer	IC-0108-S	128	1.089	0.039	3.0	0.0730	0.0000	OK	007	IC-0109-S	3.0	0.738	0.142	0.0433	
240 minute summer	IC-0109-S	128	0.946	0.046	4.0	0.1022	0.0000	OK	008	IC-0110-S	4.0	0.795	0.204	0.1034	
240 minute summer	IC-0110-S	128	0.703	0.053	4.6	0.2330	0.0000	OK	009	MH-0111-S	4.6	0.753	0.255	0.1468	
240 minute summer	MH-0111-S	164	0.651	0.151	7.7	0.4327	0.0000	OK	010	MH-0112-S	7.7	0.663	0.092	0.8701	
240 minute summer	MH-0112-S	164	0.651	0.301	8.7	11.1679	0.0000	SURCHARGED	011	MH-0113-S	6.7	0.494	0.072	0.6848	
240 minute summer	MH-0113-S	164	0.651	0.371	11.0	2.5088	0.0000	SURCHARGED	013	MH-0106-S	5.7	0.475	0.063	0.6348	
240 minute summer	MH-0114-S	164	0.651	0.271	2.2	2.0286	0.0000	OK	012	MH-0113-S	3.1	0.212	0.041	1.4716	
240 minute summer	MH-0115-S	164	0.650	0.490	4.2	0.5547	0.0000	OK	Hydro-Brake®	DUMMY	3.0				
240 minute summer	DITCH	164	0.111	0.041	3.0	0.0000	0.0000	OK							
240 minute summer	DUMMY	164	0.191	0.041	3.0	0.0469	0.0000	OK	017	DITCH	3.0	0.525	0.040	0.0977	47.4

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Results for 10 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	IC-0101-S	128	1.120	0.020	0.7	0.0665	0.0000	OK	001	IC-0102-S	0.7	0.437	0.038	0.0234	
240 minute winter	IC-0102-S	128	0.975	0.025	1.1	0.0755	0.0000	OK	002	IC-0103-S	1.1	0.502	0.061	0.0322	
240 minute winter	IC-0103-S	132	0.830	0.030	1.5	0.0086	0.0000	OK	016	MH-0111-S	1.5	0.619	0.083	0.1326	
240 minute winter	MH-0106-S	180	0.685	0.465	3.8	0.5264	0.0000	SURCHARGED	014	MH-0115-S	3.2	0.250	0.044	0.9471	
240 minute winter	IC-0107-S	132	1.230	0.030	1.5	0.1988	0.0000	OK	006	IC-0108-S	1.5	0.568	0.085	0.0397	
240 minute winter	IC-0108-S	128	1.083	0.033	2.2	0.0621	0.0000	OK	007	IC-0109-S	2.2	0.682	0.104	0.0344	
240 minute winter	IC-0109-S	132	0.939	0.039	2.9	0.0867	0.0000	OK	008	IC-0110-S	2.9	0.739	0.148	0.0811	
240 minute winter	IC-0110-S	128	0.694	0.044	3.3	0.1941	0.0000	OK	009	MH-0111-S	3.3	0.685	0.183	0.1535	
240 minute winter	MH-0111-S	180	0.686	0.186	5.5	0.5317	0.0000	OK	010	MH-0112-S	5.5	0.633	0.066	1.0160	
240 minute winter	MH-0112-S	180	0.686	0.336	7.0	12.6795	0.0000	SURCHARGED	011	MH-0113-S	5.0	0.489	0.054	0.6850	
240 minute winter	MH-0113-S	180	0.686	0.406	7.6	2.7439	0.0000	SURCHARGED	013	MH-0106-S	3.8	0.475	0.042	0.6348	
240 minute winter	MH-0114-S	180	0.686	0.306	1.9	2.2888	0.0000	SURCHARGED	012	MH-0113-S	1.7	0.240	0.022	1.5089	
240 minute winter	MH-0115-S	180	0.685	0.525	3.2	0.5941	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
240 minute winter	DITCH	180	0.111	0.041	3.1	0.0000	0.0000	OK							
240 minute winter	DUMMY	180	0.192	0.042	3.1	0.0476	0.0000	OK	017	DITCH	3.1	0.530	0.041	0.1000	52.6

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Results for 10 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	IC-0101-S	192	1.120	0.020	0.7	0.0665	0.0000	OK	001	IC-0102-S	0.7	0.422	0.038	0.0234	
360 minute summer	IC-0102-S	192	0.975	0.025	1.1	0.0755	0.0000	OK	002	IC-0103-S	1.1	0.502	0.061	0.0322	
360 minute summer	IC-0103-S	192	0.830	0.030	1.5	0.0086	0.0000	OK	016	MH-0111-S	1.5	0.619	0.083	0.0490	
360 minute summer	MH-0106-S	232	0.608	0.388	5.0	0.4390	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.212	0.051	0.9471	
360 minute summer	IC-0107-S	192	1.230	0.030	1.5	0.1988	0.0000	OK	006	IC-0108-S	1.5	0.568	0.085	0.0397	
360 minute summer	IC-0108-S	192	1.083	0.033	2.2	0.0621	0.0000	OK	007	IC-0109-S	2.2	0.682	0.104	0.0344	
360 minute summer	IC-0109-S	192	0.939	0.039	2.9	0.0866	0.0000	OK	008	IC-0110-S	2.9	0.735	0.148	0.0811	
360 minute summer	IC-0110-S	192	0.694	0.044	3.3	0.1941	0.0000	OK	009	MH-0111-S	3.3	0.685	0.183	0.1136	
360 minute summer	MH-0111-S	232	0.608	0.108	5.5	0.3095	0.0000	OK	010	MH-0112-S	5.5	0.619	0.066	0.6628	
360 minute summer	MH-0112-S	232	0.608	0.258	6.2	9.3693	0.0000	OK	011	MH-0113-S	4.3	0.465	0.046	0.6562	
360 minute summer	MH-0113-S	232	0.608	0.328	6.2	2.2207	0.0000	SURCHARGED	013	MH-0106-S	5.0	0.467	0.055	0.6348	
360 minute summer	MH-0114-S	232	0.608	0.228	1.6	1.7092	0.0000	OK	012	MH-0113-S	1.3	0.203	0.017	1.3705	
360 minute summer	MH-0115-S	232	0.608	0.448	3.8	0.5067	0.0000	OK	Hydro-Brake®	DUMMY	2.9				
360 minute summer	DITCH	232	0.110	0.040	2.9	0.0000	0.0000	OK							
360 minute summer	DUMMY	232	0.191	0.041	2.9	0.0459	0.0000	OK	017	DITCH	2.9	0.519	0.038	0.0947	51.5

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Results for 10 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	IC-0101-S	184	1.117	0.017	0.5	0.0567	0.0000	OK	001	IC-0102-S	0.5	0.396	0.027	0.0186	
360 minute winter	IC-0102-S	192	0.972	0.022	0.8	0.0647	0.0000	OK	002	IC-0103-S	0.8	0.456	0.045	0.0258	
360 minute winter	IC-0103-S	192	0.825	0.025	1.1	0.0074	0.0000	OK	016	MH-0111-S	1.1	0.565	0.061	0.0461	
360 minute winter	MH-0106-S	256	0.627	0.407	4.9	0.4603	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.181	0.051	0.9471	
360 minute winter	IC-0107-S	192	1.225	0.025	1.1	0.1706	0.0000	OK	006	IC-0108-S	1.1	0.522	0.062	0.0317	
360 minute winter	IC-0108-S	200	1.078	0.028	1.6	0.0529	0.0000	OK	007	IC-0109-S	1.6	0.624	0.076	0.0273	
360 minute winter	IC-0109-S	192	0.933	0.033	2.1	0.0737	0.0000	OK	008	IC-0110-S	2.1	0.673	0.107	0.0641	
360 minute winter	IC-0110-S	200	0.687	0.037	2.4	0.1638	0.0000	OK	009	MH-0111-S	2.4	0.624	0.133	0.1314	
360 minute winter	MH-0111-S	256	0.627	0.127	4.0	0.3643	0.0000	OK	010	MH-0112-S	4.0	0.591	0.048	0.7569	
360 minute winter	MH-0112-S	256	0.627	0.277	5.0	10.1601	0.0000	OK	011	MH-0113-S	4.3	0.478	0.046	0.6733	
360 minute winter	MH-0113-S	256	0.627	0.347	6.9	2.3487	0.0000	SURCHARGED	013	MH-0106-S	4.9	0.464	0.054	0.6348	
360 minute winter	MH-0114-S	256	0.627	0.247	1.9	1.8514	0.0000	OK	012	MH-0113-S	1.8	0.246	0.024	1.4197	
360 minute winter	MH-0115-S	256	0.627	0.467	3.8	0.5280	0.0000	OK	Hydro-Brake®	DUMMY	3.0				
360 minute winter	DITCH	256	0.110	0.040	3.0	0.0000	0.0000	OK							
360 minute winter	DUMMY	256	0.191	0.041	3.0	0.0463	0.0000	OK	017	DITCH	3.0	0.522	0.039	0.0961	57.1

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Results for 10 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	IC-0101-S	248	1.118	0.018	0.6	0.0612	0.0000	OK	001	IC-0102-S	0.6	0.408	0.032	0.0203	
480 minute summer	IC-0102-S	248	0.973	0.023	0.9	0.0676	0.0000	OK	002	IC-0103-S	0.9	0.474	0.049	0.0272	
480 minute summer	IC-0103-S	248	0.826	0.026	1.2	0.0076	0.0000	OK	016	MH-0111-S	1.2	0.574	0.064	0.0411	
480 minute summer	MH-0106-S	296	0.569	0.349	5.5	0.3948	0.0000	SURCHARGED	014	MH-0115-S	4.2	0.205	0.057	0.9471	
480 minute summer	IC-0107-S	248	1.226	0.026	1.2	0.1769	0.0000	OK	006	IC-0108-S	1.2	0.527	0.067	0.0338	
480 minute summer	IC-0108-S	248	1.079	0.029	1.8	0.0556	0.0000	OK	007	IC-0109-S	1.8	0.640	0.084	0.0295	
480 minute summer	IC-0109-S	248	0.935	0.035	2.4	0.0780	0.0000	OK	008	IC-0110-S	2.4	0.701	0.120	0.0690	
480 minute summer	IC-0110-S	248	0.689	0.039	2.7	0.1716	0.0000	OK	009	MH-0111-S	2.6	0.640	0.145	0.0720	
480 minute summer	MH-0111-S	296	0.569	0.069	4.4	0.1980	0.0000	OK	010	MH-0112-S	4.4	0.604	0.052	0.4695	
480 minute summer	MH-0112-S	296	0.569	0.219	5.0	7.7824	0.0000	OK	011	MH-0113-S	3.9	0.462	0.041	0.6067	
480 minute summer	MH-0113-S	296	0.569	0.289	5.7	1.9563	0.0000	OK	013	MH-0106-S	5.5	0.467	0.060	0.6312	
480 minute summer	MH-0114-S	296	0.569	0.189	1.4	1.4169	0.0000	OK	012	MH-0113-S	1.2	0.198	0.016	1.2473	
480 minute summer	MH-0115-S	296	0.569	0.409	4.2	0.4625	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
480 minute summer	DITCH	296	0.109	0.039	2.8	0.0000	0.0000	OK							
480 minute summer	DUMMY	296	0.190	0.040	2.8	0.0449	0.0000	OK	017	DITCH	2.8	0.512	0.036	0.0918	55.0

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Results for 10 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	IC-0101-S	240	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.363	0.022	0.0155	
480 minute winter	IC-0102-S	240	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.424	0.033	0.0217	
480 minute winter	IC-0103-S	248	0.823	0.023	0.9	0.0067	0.0000	OK	016	MH-0111-S	0.9	0.531	0.049	0.0339	
480 minute winter	MH-0106-S	320	0.581	0.361	5.1	0.4079	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.179	0.051	0.9471	
480 minute winter	IC-0107-S	256	1.223	0.023	0.9	0.1548	0.0000	OK	006	IC-0108-S	0.9	0.493	0.051	0.0275	
480 minute winter	IC-0108-S	256	1.075	0.025	1.3	0.0478	0.0000	OK	007	IC-0109-S	1.3	0.588	0.062	0.0236	
480 minute winter	IC-0109-S	256	0.930	0.030	1.7	0.0664	0.0000	OK	008	IC-0110-S	1.7	0.638	0.087	0.0557	
480 minute winter	IC-0110-S	248	0.684	0.034	2.0	0.1491	0.0000	OK	009	MH-0111-S	2.0	0.592	0.110	0.0845	
480 minute winter	MH-0111-S	320	0.581	0.081	3.3	0.2312	0.0000	OK	010	MH-0112-S	3.3	0.559	0.039	0.5266	
480 minute winter	MH-0112-S	320	0.581	0.231	4.3	8.2524	0.0000	OK	011	MH-0113-S	3.5	0.471	0.038	0.6252	
480 minute winter	MH-0113-S	320	0.581	0.301	5.4	2.0348	0.0000	SURCHARGED	013	MH-0106-S	5.1	0.467	0.056	0.6346	
480 minute winter	MH-0114-S	320	0.581	0.201	2.0	1.5041	0.0000	OK	012	MH-0113-S	1.4	0.197	0.018	1.2909	
480 minute winter	MH-0115-S	320	0.580	0.420	3.8	0.4756	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
480 minute winter	DITCH	320	0.109	0.039	2.8	0.0000	0.0000	OK							
480 minute winter	DUMMY	320	0.190	0.040	2.8	0.0452	0.0000	OK	017	DITCH	2.8	0.515	0.037	0.0927	61.2

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Results for 10 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	IC-0101-S	315	1.117	0.017	0.5	0.0567	0.0000	OK	001	IC-0102-S	0.5	0.398	0.027	0.0177	
600 minute summer	IC-0102-S	315	0.970	0.020	0.7	0.0607	0.0000	OK	002	IC-0103-S	0.7	0.432	0.039	0.0238	
600 minute summer	IC-0103-S	315	0.824	0.024	1.0	0.0070	0.0000	OK	016	MH-0111-S	1.0	0.550	0.055	0.0368	
600 minute summer	MH-0106-S	360	0.548	0.328	4.5	0.3711	0.0000	SURCHARGED	014	MH-0115-S	3.6	0.170	0.049	0.9471	
600 minute summer	IC-0107-S	315	1.224	0.024	1.0	0.1629	0.0000	OK	006	IC-0108-S	1.0	0.502	0.056	0.0300	
600 minute summer	IC-0108-S	315	1.077	0.027	1.5	0.0513	0.0000	OK	007	IC-0109-S	1.5	0.609	0.071	0.0263	
600 minute summer	IC-0109-S	315	0.932	0.032	2.0	0.0719	0.0000	OK	008	IC-0110-S	2.0	0.662	0.102	0.0621	
600 minute summer	IC-0110-S	315	0.686	0.036	2.3	0.1603	0.0000	OK	009	MH-0111-S	2.3	0.618	0.128	0.0543	
600 minute summer	MH-0111-S	360	0.549	0.049	3.8	0.1391	0.0000	OK	010	MH-0112-S	3.8	0.592	0.046	0.3730	
600 minute summer	MH-0112-S	360	0.549	0.199	4.6	6.9834	0.0000	OK	011	MH-0113-S	3.0	0.481	0.032	0.5642	
600 minute summer	MH-0113-S	360	0.548	0.268	4.4	1.8152	0.0000	OK	013	MH-0106-S	4.5	0.469	0.049	0.6170	
600 minute summer	MH-0114-S	360	0.549	0.169	1.9	1.2631	0.0000	OK	012	MH-0113-S	0.9	0.190	0.012	1.1489	
600 minute summer	MH-0115-S	360	0.548	0.388	3.6	0.4387	0.0000	OK	Hydro-Brake®	DUMMY	2.7				
600 minute summer	DITCH	360	0.108	0.038	2.7	0.0000	0.0000	OK							
600 minute summer	DUMMY	360	0.189	0.039	2.7	0.0444	0.0000	OK	017	DITCH	2.7	0.509	0.036	0.0903	54.5

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Results for 10 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	IC-0101-S	315	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.363	0.022	0.0155	
600 minute winter	IC-0102-S	315	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.424	0.033	0.0208	
600 minute winter	IC-0103-S	315	0.822	0.022	0.8	0.0063	0.0000	OK	016	MH-0111-S	0.8	0.515	0.044	0.0314	
600 minute winter	MH-0106-S	390	0.529	0.309	5.1	0.3496	0.0000	SURCHARGED	014	MH-0115-S	3.6	0.202	0.049	0.9471	
600 minute winter	IC-0107-S	315	1.220	0.020	0.7	0.1371	0.0000	OK	006	IC-0108-S	0.7	0.459	0.039	0.0238	
600 minute winter	IC-0108-S	315	1.073	0.023	1.1	0.0441	0.0000	OK	007	IC-0109-S	1.1	0.551	0.052	0.0213	
600 minute winter	IC-0109-S	315	0.928	0.028	1.5	0.0624	0.0000	OK	008	IC-0110-S	1.5	0.613	0.077	0.0504	
600 minute winter	IC-0110-S	315	0.681	0.031	1.7	0.1379	0.0000	OK	009	MH-0111-S	1.7	0.556	0.094	0.0448	
600 minute winter	MH-0111-S	300	0.538	0.038	2.9	0.1100	0.0000	OK	010	MH-0112-S	2.9	0.549	0.035	0.2874	
600 minute winter	MH-0112-S	375	0.529	0.179	3.3	6.2171	0.0000	OK	011	MH-0113-S	3.4	0.451	0.036	0.5169	
600 minute winter	MH-0113-S	390	0.529	0.249	4.5	1.6851	0.0000	OK	013	MH-0106-S	5.1	0.469	0.056	0.5992	
600 minute winter	MH-0114-S	375	0.529	0.149	1.2	1.1153	0.0000	OK	012	MH-0113-S	0.8	0.190	0.010	1.0430	
600 minute winter	MH-0115-S	390	0.529	0.369	3.6	0.4174	0.0000	OK	Hydro-Brake®	DUMMY	2.6				
600 minute winter	DITCH	375	0.108	0.038	2.6	0.0000	0.0000	OK							
600 minute winter	DUMMY	390	0.189	0.039	2.6	0.0439	0.0000	OK	017	DITCH	2.6	0.505	0.035	0.0887	62.6

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Results for 10 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	IC-0101-S	375	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.363	0.022	0.0155	
720 minute summer	IC-0102-S	375	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.424	0.033	0.0208	
720 minute summer	IC-0103-S	375	0.822	0.022	0.8	0.0063	0.0000	OK	016	MH-0111-S	0.8	0.515	0.044	0.0314	
720 minute summer	MH-0106-S	420	0.507	0.287	4.7	0.3251	0.0000	OK	014	MH-0115-S	3.8	0.169	0.052	0.9405	
720 minute summer	IC-0107-S	375	1.222	0.022	0.8	0.1462	0.0000	OK	006	IC-0108-S	0.8	0.470	0.045	0.0257	
720 minute summer	IC-0108-S	375	1.074	0.024	1.2	0.0460	0.0000	OK	007	IC-0109-S	1.2	0.570	0.057	0.0225	
720 minute summer	IC-0109-S	375	0.929	0.029	1.6	0.0644	0.0000	OK	008	IC-0110-S	1.6	0.626	0.082	0.0526	
720 minute summer	IC-0110-S	375	0.682	0.032	1.8	0.1418	0.0000	OK	009	MH-0111-S	1.8	0.570	0.100	0.0460	
720 minute summer	MH-0111-S	360	0.539	0.039	3.0	0.1113	0.0000	OK	010	MH-0112-S	3.0	0.553	0.036	0.2273	
720 minute summer	MH-0112-S	420	0.506	0.156	3.7	5.3373	0.0000	OK	011	MH-0113-S	3.5	0.479	0.037	0.4577	
720 minute summer	MH-0113-S	420	0.507	0.227	5.3	1.5365	0.0000	OK	013	MH-0106-S	4.7	0.470	0.052	0.5708	
720 minute summer	MH-0114-S	435	0.505	0.125	1.6	0.9381	0.0000	OK	012	MH-0113-S	1.3	0.252	0.018	0.9111	
720 minute summer	MH-0115-S	420	0.508	0.348	3.8	0.3931	0.0000	OK	Hydro-Brake®	DUMMY	2.6				
720 minute summer	DITCH	435	0.107	0.037	2.6	0.0000	0.0000	OK							
720 minute summer	DUMMY	420	0.188	0.038	2.6	0.0432	0.0000	OK	017	DITCH	2.6	0.500	0.034	0.0868	54.3

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Results for 10 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	IC-0101-S	345	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0133	
720 minute winter	IC-0102-S	375	0.967	0.017	0.5	0.0517	0.0000	OK	002	IC-0103-S	0.5	0.394	0.028	0.0187	
720 minute winter	IC-0103-S	375	0.820	0.020	0.7	0.0059	0.0000	OK	016	MH-0111-S	0.7	0.495	0.039	0.0286	
720 minute winter	MH-0106-S	450	0.490	0.270	3.9	0.3048	0.0000	OK	014	MH-0115-S	3.1	0.201	0.043	0.9221	
720 minute winter	IC-0107-S	360	1.219	0.019	0.6	0.1274	0.0000	OK	006	IC-0108-S	0.6	0.431	0.034	0.0210	
720 minute winter	IC-0108-S	360	1.071	0.021	0.9	0.0400	0.0000	OK	007	IC-0109-S	0.9	0.524	0.043	0.0184	
720 minute winter	IC-0109-S	360	0.925	0.025	1.2	0.0560	0.0000	OK	008	IC-0110-S	1.2	0.568	0.061	0.0435	
720 minute winter	IC-0110-S	360	0.678	0.028	1.4	0.1253	0.0000	OK	009	MH-0111-S	1.4	0.530	0.078	0.0398	
720 minute winter	MH-0111-S	375	0.535	0.035	2.4	0.1015	0.0000	OK	010	MH-0112-S	2.4	0.523	0.029	0.1838	
720 minute winter	MH-0112-S	450	0.489	0.139	3.4	4.7260	0.0000	OK	011	MH-0113-S	4.5	0.476	0.048	0.4107	
720 minute winter	MH-0113-S	450	0.489	0.209	6.6	1.4166	0.0000	OK	013	MH-0106-S	3.9	0.469	0.044	0.5373	
720 minute winter	MH-0114-S	450	0.489	0.109	1.4	0.8160	0.0000	OK	012	MH-0113-S	1.7	0.180	0.022	0.8099	
720 minute winter	MH-0115-S	450	0.490	0.330	3.1	0.3727	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
720 minute winter	DITCH	435	0.107	0.037	2.5	0.0000	0.0000	OK							
720 minute winter	DUMMY	435	0.188	0.038	2.5	0.0427	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0852	65.3

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Results for 10 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	IC-0101-S	495	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.346	0.016	0.0133	
960 minute summer	IC-0102-S	495	0.967	0.017	0.5	0.0517	0.0000	OK	002	IC-0103-S	0.5	0.394	0.028	0.0187	
960 minute summer	IC-0103-S	495	0.820	0.020	0.7	0.0059	0.0000	OK	016	MH-0111-S	0.7	0.495	0.039	0.0286	
960 minute summer	MH-0106-S	570	0.453	0.233	5.2	0.2630	0.0000	OK	014	MH-0115-S	4.0	0.170	0.053	0.8646	
960 minute summer	IC-0107-S	495	1.220	0.020	0.7	0.1371	0.0000	OK	006	IC-0108-S	0.7	0.459	0.039	0.0229	
960 minute summer	IC-0108-S	495	1.072	0.022	1.0	0.0421	0.0000	OK	007	IC-0109-S	1.0	0.545	0.047	0.0196	
960 minute summer	IC-0109-S	495	0.926	0.026	1.3	0.0582	0.0000	OK	008	IC-0110-S	1.3	0.583	0.066	0.0458	
960 minute summer	IC-0110-S	495	0.679	0.029	1.5	0.1296	0.0000	OK	009	MH-0111-S	1.5	0.531	0.083	0.0412	
960 minute summer	MH-0111-S	495	0.536	0.036	2.5	0.1035	0.0000	OK	010	MH-0112-S	2.5	0.529	0.030	0.1006	
960 minute summer	MH-0112-S	555	0.452	0.102	2.8	3.3922	0.0000	OK	011	MH-0113-S	3.5	0.447	0.037	0.3026	
960 minute summer	MH-0113-S	570	0.452	0.172	5.2	1.1633	0.0000	OK	013	MH-0106-S	5.2	0.469	0.058	0.4523	
960 minute summer	MH-0114-S	555	0.452	0.072	1.2	0.5418	0.0000	OK	012	MH-0113-S	1.4	0.252	0.018	0.5802	
960 minute summer	MH-0115-S	570	0.453	0.293	4.0	0.3311	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
960 minute summer	DITCH	465	0.107	0.037	2.5	0.0000	0.0000	OK							
960 minute summer	DUMMY	465	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0850	54.0

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Results for 10 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	IC-0101-S	405	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.327	0.011	0.0096	
960 minute winter	IC-0102-S	405	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
960 minute winter	IC-0103-S	405	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
960 minute winter	MH-0106-S	540	0.354	0.134	6.7	0.1510	0.0000	OK	014	MH-0115-S	4.5	0.194	0.060	0.5318	
960 minute winter	IC-0107-S	480	1.217	0.017	0.5	0.1169	0.0000	OK	006	IC-0108-S	0.5	0.418	0.028	0.0180	
960 minute winter	IC-0108-S	480	1.069	0.019	0.7	0.0355	0.0000	OK	007	IC-0109-S	0.7	0.492	0.033	0.0152	
960 minute winter	IC-0109-S	480	0.922	0.022	0.9	0.0487	0.0000	OK	008	IC-0110-S	0.9	0.531	0.046	0.0349	
960 minute winter	IC-0110-S	495	0.674	0.024	1.0	0.1064	0.0000	OK	009	MH-0111-S	1.0	0.477	0.055	0.0306	
960 minute winter	MH-0111-S	480	0.529	0.029	1.6	0.0834	0.0000	OK	010	MH-0112-S	1.6	0.464	0.019	0.0609	
960 minute winter	MH-0112-S	465	0.379	0.029	1.8	0.9194	0.0000	OK	011	MH-0113-S	1.8	0.454	0.019	0.0778	
960 minute winter	MH-0113-S	555	0.351	0.071	4.6	0.4804	0.0000	OK	013	MH-0106-S	6.7	0.464	0.074	0.1920	
960 minute winter	MH-0114-S	495	0.399	0.019	0.6	0.1429	0.0000	OK	012	MH-0113-S	0.6	0.224	0.008	0.1537	
960 minute winter	MH-0115-S	540	0.356	0.196	4.5	0.2217	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
960 minute winter	DITCH	615	0.107	0.037	2.5	0.0000	0.0000	OK							
960 minute winter	DUMMY	615	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	61.8

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Results for 10 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	IC-0101-S	690	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.294	0.011	0.0096	
1440 minute summer	IC-0102-S	690	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
1440 minute summer	IC-0103-S	690	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
1440 minute summer	MH-0106-S	750	0.314	0.094	2.6	0.1063	0.0000	OK	014	MH-0115-S	2.5	0.169	0.034	0.3712	
1440 minute summer	IC-0107-S	750	1.217	0.017	0.5	0.1169	0.0000	OK	006	IC-0108-S	0.5	0.418	0.028	0.0180	
1440 minute summer	IC-0108-S	750	1.069	0.019	0.7	0.0355	0.0000	OK	007	IC-0109-S	0.7	0.492	0.033	0.0152	
1440 minute summer	IC-0109-S	750	0.922	0.022	0.9	0.0487	0.0000	OK	008	IC-0110-S	0.9	0.531	0.046	0.0349	
1440 minute summer	IC-0110-S	750	0.674	0.024	1.0	0.1064	0.0000	OK	009	MH-0111-S	1.0	0.477	0.055	0.0306	
1440 minute summer	MH-0111-S	750	0.529	0.029	1.6	0.0834	0.0000	OK	010	MH-0112-S	1.6	0.464	0.019	0.0609	
1440 minute summer	MH-0112-S	750	0.379	0.029	1.8	0.9209	0.0000	OK	011	MH-0113-S	1.8	0.453	0.019	0.0388	
1440 minute summer	MH-0113-S	750	0.315	0.035	2.6	0.2351	0.0000	OK	013	MH-0106-S	2.6	0.451	0.029	0.1053	
1440 minute summer	MH-0114-S	750	0.397	0.017	0.5	0.1309	0.0000	OK	012	MH-0113-S	0.5	0.237	0.007	0.0659	
1440 minute summer	MH-0115-S	750	0.314	0.154	2.5	0.1739	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
1440 minute summer	DITCH	750	0.107	0.037	2.5	0.0000	0.0000	OK							
1440 minute summer	DUMMY	750	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	53.9

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Results for 10 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	IC-0101-S	690	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.294	0.011	0.0096	
1440 minute winter	IC-0102-S	690	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
1440 minute winter	IC-0103-S	690	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
1440 minute winter	MH-0106-S	750	0.277	0.057	2.3	0.0642	0.0000	OK	014	MH-0115-S	2.3	0.168	0.031	0.2318	
1440 minute winter	IC-0107-S	750	1.216	0.016	0.4	0.1052	0.0000	OK	006	IC-0108-S	0.4	0.382	0.023	0.0158	
1440 minute winter	IC-0108-S	750	1.067	0.017	0.6	0.0330	0.0000	OK	007	IC-0109-S	0.6	0.463	0.028	0.0138	
1440 minute winter	IC-0109-S	750	0.921	0.021	0.8	0.0460	0.0000	OK	008	IC-0110-S	0.8	0.509	0.041	0.0323	
1440 minute winter	IC-0110-S	750	0.673	0.023	0.9	0.1011	0.0000	OK	009	MH-0111-S	0.9	0.455	0.050	0.0289	
1440 minute winter	MH-0111-S	750	0.528	0.028	1.5	0.0809	0.0000	OK	010	MH-0112-S	1.5	0.456	0.018	0.0582	
1440 minute winter	MH-0112-S	750	0.378	0.028	1.7	0.8986	0.0000	OK	011	MH-0113-S	1.7	0.455	0.018	0.0364	
1440 minute winter	MH-0113-S	750	0.313	0.033	2.3	0.2222	0.0000	OK	013	MH-0106-S	2.3	0.456	0.025	0.0604	
1440 minute winter	MH-0114-S	720	0.396	0.016	0.4	0.1179	0.0000	OK	012	MH-0113-S	0.4	0.237	0.005	0.0594	
1440 minute winter	MH-0115-S	750	0.276	0.116	2.3	0.1315	0.0000	OK	Hydro-Brake®	DUMMY	2.3				
1440 minute winter	DITCH	750	0.105	0.035	2.3	0.0000	0.0000	OK							
1440 minute winter	DUMMY	750	0.186	0.036	2.3	0.0410	0.0000	OK	017	DITCH	2.3	0.487	0.030	0.0800	66.5

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Results for 30 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0101-S	12	1.142	0.042	3.1	0.1383	0.0000	OK	001	IC-0102-S	3.1	0.655	0.169	0.0672	
15 minute summer	IC-0102-S	13	1.003	0.053	4.7	0.1594	0.0000	OK	002	IC-0103-S	4.7	0.738	0.262	0.0934	
15 minute summer	IC-0103-S	13	0.864	0.064	6.5	0.0186	0.0000	OK	016	MH-0111-S	6.5	0.926	0.358	0.1415	
15 minute summer	MH-0106-S	23	0.670	0.450	13.2	0.5085	0.0000	SURCHARGED	014	MH-0115-S	6.7	0.428	0.091	0.9471	
15 minute summer	IC-0107-S	13	1.265	0.065	6.5	0.4348	0.0000	OK	006	IC-0108-S	6.5	0.807	0.365	0.1208	
15 minute summer	IC-0108-S	14	1.125	0.075	9.6	0.1422	0.0000	OK	007	IC-0109-S	9.6	0.961	0.453	0.1060	
15 minute summer	IC-0109-S	14	0.990	0.090	12.7	0.2012	0.0000	OK	008	IC-0110-S	12.7	1.026	0.646	0.2560	
15 minute summer	IC-0110-S	14	0.760	0.110	14.5	0.4874	0.0000	OK	009	MH-0111-S	14.4	1.028	0.800	0.2070	
15 minute summer	MH-0111-S	23	0.666	0.166	24.0	0.4759	0.0000	OK	010	MH-0112-S	24.1	0.991	0.289	0.9332	
15 minute summer	MH-0112-S	24	0.664	0.314	32.9	11.7472	0.0000	SURCHARGED	011	MH-0113-S	13.1	0.613	0.139	0.6850	
15 minute summer	MH-0113-S	23	0.667	0.387	23.6	2.6206	0.0000	SURCHARGED	013	MH-0106-S	13.2	0.726	0.146	0.6348	
15 minute summer	MH-0114-S	23	0.664	0.284	11.9	2.1247	0.0000	OK	012	MH-0113-S	6.9	0.540	0.092	1.4933	
15 minute summer	MH-0115-S	23	0.672	0.512	6.7	0.5786	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
15 minute summer	DITCH	24	0.111	0.041	3.1	0.0000	0.0000	OK							
15 minute summer	DUMMY	24	0.192	0.042	3.1	0.0472	0.0000	OK	017	DITCH	3.1	0.527	0.040	0.0986	26.1

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Results for 30 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	13	1.145	0.045	3.5	0.1477	0.0000	OK	001	IC-0102-S	3.5	0.676	0.191	0.0731	
15 minute winter	IC-0102-S	14	1.006	0.056	5.2	0.1688	0.0000	OK	002	IC-0103-S	5.2	0.756	0.290	0.1011	
15 minute winter	IC-0103-S	14	0.868	0.068	7.2	0.0198	0.0000	OK	016	MH-0111-S	7.2	0.951	0.398	0.1668	
15 minute winter	MH-0106-S	24	0.703	0.483	15.0	0.5465	0.0000	SURCHARGED	014	MH-0115-S	8.7	0.435	0.118	0.9471	
15 minute winter	IC-0107-S	13	1.269	0.069	7.3	0.4661	0.0000	OK	006	IC-0108-S	7.3	0.823	0.410	0.1329	
15 minute winter	IC-0108-S	14	1.131	0.081	10.8	0.1539	0.0000	OK	007	IC-0109-S	10.8	0.977	0.510	0.1172	
15 minute winter	IC-0109-S	14	0.999	0.099	14.3	0.2196	0.0000	OK	008	IC-0110-S	14.3	1.044	0.728	0.2837	
15 minute winter	IC-0110-S	14	0.772	0.122	16.3	0.5406	0.0000	OK	009	MH-0111-S	16.2	1.053	0.896	0.2257	
15 minute winter	MH-0111-S	23	0.706	0.206	26.8	0.5911	0.0000	OK	010	MH-0112-S	27.1	1.019	0.326	1.0789	
15 minute winter	MH-0112-S	23	0.706	0.356	35.5	13.5878	0.0000	SURCHARGED	011	MH-0113-S	15.2	0.602	0.162	0.6850	
15 minute winter	MH-0113-S	24	0.704	0.424	26.4	2.8721	0.0000	SURCHARGED	013	MH-0106-S	15.0	0.746	0.166	0.6348	
15 minute winter	MH-0114-S	22	0.708	0.328	10.5	2.4560	0.0000	SURCHARGED	012	MH-0113-S	7.6	0.526	0.101	1.5089	
15 minute winter	MH-0115-S	26	0.702	0.542	8.7	0.6134	0.0000	OK	Hydro-Brake®	DUMMY	3.2				
15 minute winter	DITCH	24	0.111	0.041	3.2	0.0000	0.0000	OK							
15 minute winter	DUMMY	24	0.192	0.042	3.2	0.0480	0.0000	OK	017	DITCH	3.2	0.533	0.042	0.1011	29.2

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Results for 30 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	IC-0101-S	21	1.142	0.042	3.2	0.1406	0.0000	OK	001	IC-0102-S	3.2	0.659	0.174	0.0685	
30 minute summer	IC-0102-S	21	1.004	0.054	4.8	0.1612	0.0000	OK	002	IC-0103-S	4.8	0.742	0.267	0.0949	
30 minute summer	IC-0103-S	21	0.865	0.065	6.6	0.0188	0.0000	OK	016	MH-0111-S	6.6	0.931	0.366	0.1997	
30 minute summer	MH-0106-S	37	0.742	0.522	9.6	0.5901	0.0000	SURCHARGED	014	MH-0115-S	6.2	0.360	0.084	0.9471	
30 minute summer	IC-0107-S	21	1.265	0.065	6.6	0.4391	0.0000	OK	006	IC-0108-S	6.6	0.808	0.372	0.1228	
30 minute summer	IC-0108-S	21	1.126	0.076	9.8	0.1443	0.0000	OK	007	IC-0109-S	9.8	0.963	0.463	0.1080	
30 minute summer	IC-0109-S	21	0.992	0.092	13.0	0.2045	0.0000	OK	008	IC-0110-S	13.0	1.024	0.661	0.2603	
30 minute summer	IC-0110-S	22	0.761	0.111	14.8	0.4945	0.0000	OK	009	MH-0111-S	14.7	1.034	0.816	0.2215	
30 minute summer	MH-0111-S	36	0.742	0.242	24.5	0.6941	0.0000	OK	010	MH-0112-S	24.8	0.969	0.298	1.1610	
30 minute summer	MH-0112-S	36	0.743	0.393	32.6	15.2279	0.0000	SURCHARGED	011	MH-0113-S	12.7	0.582	0.135	0.6850	
30 minute summer	MH-0113-S	37	0.742	0.462	19.9	3.1262	0.0000	SURCHARGED	013	MH-0106-S	9.6	0.619	0.106	0.6348	
30 minute summer	MH-0114-S	37	0.743	0.363	11.2	2.7158	0.0000	SURCHARGED	012	MH-0113-S	5.8	0.396	0.077	1.5089	
30 minute summer	MH-0115-S	37	0.741	0.581	6.2	0.6575	0.0000	OK	Hydro-Brake®	DUMMY	3.3				
30 minute summer	DITCH	36	0.112	0.042	3.3	0.0000	0.0000	OK							
30 minute summer	DUMMY	37	0.193	0.043	3.3	0.0488	0.0000	OK	017	DITCH	3.3	0.538	0.043	0.1035	33.9

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Results for 30 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.91%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	IC-0101-S	20	1.144	0.044	3.4	0.1443	0.0000	OK	001	IC-0102-S	3.3	0.665	0.182	0.0710	
30 minute winter	IC-0102-S	21	1.005	0.055	5.0	0.1661	0.0000	OK	002	IC-0103-S	5.1	0.752	0.282	0.0988	
30 minute winter	IC-0103-S	21	0.867	0.067	7.0	0.0194	0.0000	OK	016	MH-0111-S	7.0	0.943	0.385	0.2268	
30 minute winter	MH-0106-S	36	0.795	0.575	10.3	0.6507	0.0000	SURCHARGED	014	MH-0115-S	6.1	0.371	0.082	0.9471	
30 minute winter	IC-0107-S	21	1.267	0.067	7.0	0.4526	0.0000	OK	006	IC-0108-S	6.9	0.817	0.391	0.1278	
30 minute winter	IC-0108-S	21	1.129	0.079	10.3	0.1489	0.0000	OK	007	IC-0109-S	10.3	0.971	0.486	0.1124	
30 minute winter	IC-0109-S	21	0.995	0.095	13.6	0.2117	0.0000	OK	008	IC-0110-S	13.6	1.031	0.694	0.2715	
30 minute winter	IC-0110-S	36	0.797	0.147	15.5	0.6536	0.0000	OK	009	MH-0111-S	15.4	1.038	0.853	0.2557	
30 minute winter	MH-0111-S	36	0.797	0.297	25.7	0.8511	0.0000	OK	010	MH-0112-S	25.9	0.955	0.311	1.2437	
30 minute winter	MH-0112-S	36	0.797	0.447	34.2	17.6464	0.0000	SURCHARGED	011	MH-0113-S	13.8	0.583	0.147	0.6850	
30 minute winter	MH-0113-S	36	0.796	0.516	22.6	3.4903	0.0000	SURCHARGED	013	MH-0106-S	10.3	0.641	0.113	0.6348	
30 minute winter	MH-0114-S	36	0.797	0.417	12.5	3.1234	0.0000	SURCHARGED	012	MH-0113-S	5.4	0.407	0.072	1.5089	
30 minute winter	MH-0115-S	37	0.795	0.635	6.1	0.7180	0.0000	OK	Hydro-Brake®	DUMMY	3.4				
30 minute winter	DITCH	37	0.113	0.043	3.4	0.0000	0.0000	OK							
30 minute winter	DUMMY	36	0.194	0.044	3.4	0.0498	0.0000	OK	017	DITCH	3.4	0.545	0.045	0.1067	37.9

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Results for 30 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	IC-0101-S	36	1.139	0.039	2.7	0.1288	0.0000	OK	001	IC-0102-S	2.7	0.628	0.147	0.0606	
60 minute summer	IC-0102-S	36	0.999	0.049	4.1	0.1477	0.0000	OK	002	IC-0103-S	4.1	0.712	0.228	0.0844	
60 minute summer	IC-0103-S	36	0.859	0.059	5.7	0.0173	0.0000	OK	016	MH-0111-S	5.7	0.895	0.314	0.2149	
60 minute summer	MH-0106-S	63	0.794	0.574	7.2	0.6491	0.0000	SURCHARGED	014	MH-0115-S	4.7	0.319	0.063	0.9471	
60 minute summer	IC-0107-S	36	1.260	0.060	5.7	0.4032	0.0000	OK	006	IC-0108-S	5.7	0.787	0.321	0.1089	
60 minute summer	IC-0108-S	36	1.119	0.069	8.4	0.1308	0.0000	OK	007	IC-0109-S	8.4	0.939	0.397	0.0950	
60 minute summer	IC-0109-S	36	0.983	0.083	11.1	0.1836	0.0000	OK	008	IC-0110-S	11.1	1.008	0.565	0.2281	
60 minute summer	IC-0110-S	62	0.795	0.145	12.7	0.6451	0.0000	OK	009	MH-0111-S	12.8	1.007	0.709	0.2551	
60 minute summer	MH-0111-S	62	0.794	0.294	21.0	0.8426	0.0000	OK	010	MH-0112-S	20.9	0.887	0.251	1.2416	
60 minute summer	MH-0112-S	63	0.794	0.444	25.1	17.5383	0.0000	SURCHARGED	011	MH-0113-S	9.5	0.538	0.101	0.6850	
60 minute summer	MH-0113-S	63	0.794	0.514	14.5	3.4782	0.0000	SURCHARGED	013	MH-0106-S	7.2	0.552	0.079	0.6348	
60 minute summer	MH-0114-S	63	0.794	0.414	7.6	3.1014	0.0000	SURCHARGED	012	MH-0113-S	6.3	0.322	0.084	1.5089	
60 minute summer	MH-0115-S	63	0.794	0.634	4.7	0.7168	0.0000	OK	Hydro-Brake®	DUMMY	3.4				
60 minute summer	DITCH	63	0.113	0.043	3.4	0.0000	0.0000	OK							
60 minute summer	DUMMY	63	0.194	0.044	3.4	0.0498	0.0000	OK	017	DITCH	3.4	0.545	0.045	0.1066	42.0

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Results for 30 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.90%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	IC-0101-S	36	1.137	0.037	2.5	0.1239	0.0000	OK	001	IC-0102-S	2.5	0.622	0.136	0.0567	
60 minute winter	IC-0102-S	36	0.997	0.047	3.7	0.1396	0.0000	OK	002	IC-0103-S	3.7	0.702	0.206	0.0779	
60 minute winter	IC-0103-S	62	0.862	0.062	5.1	0.0180	0.0000	OK	016	MH-0111-S	5.1	0.869	0.284	0.2470	
60 minute winter	MH-0106-S	63	0.862	0.642	7.7	0.7257	0.0000	SURCHARGED	014	MH-0115-S	6.0	0.343	0.081	0.9471	
60 minute winter	IC-0107-S	36	1.256	0.056	5.2	0.3801	0.0000	OK	006	IC-0108-S	5.1	0.768	0.290	0.1008	
60 minute winter	IC-0108-S	36	1.115	0.065	7.6	0.1235	0.0000	OK	007	IC-0109-S	7.6	0.921	0.362	0.0884	
60 minute winter	IC-0109-S	36	0.978	0.078	10.1	0.1736	0.0000	OK	008	IC-0110-S	10.1	1.006	0.517	0.2486	
60 minute winter	IC-0110-S	61	0.863	0.213	11.5	0.9453	0.0000	SURCHARGED	009	MH-0111-S	11.8	0.967	0.655	0.2562	
60 minute winter	MH-0111-S	63	0.862	0.362	19.4	1.0364	0.0000	SURCHARGED	010	MH-0112-S	18.2	0.836	0.218	1.2446	
60 minute winter	MH-0112-S	63	0.862	0.512	20.7	20.5702	0.0000	SURCHARGED	011	MH-0113-S	9.1	0.551	0.097	0.6850	
60 minute winter	MH-0113-S	63	0.862	0.582	13.2	3.9364	0.0000	SURCHARGED	013	MH-0106-S	7.7	0.558	0.085	0.6348	
60 minute winter	MH-0114-S	63	0.862	0.482	5.8	3.6110	0.0000	SURCHARGED	012	MH-0113-S	6.0	0.349	0.079	1.5089	
60 minute winter	MH-0115-S	63	0.861	0.701	6.0	0.7933	0.0000	OK	Hydro-Brake®	DUMMY	3.6				
60 minute winter	DITCH	63	0.114	0.044	3.6	0.0000	0.0000	OK							
60 minute winter	DUMMY	63	0.195	0.045	3.6	0.0510	0.0000	OK	017	DITCH	3.6	0.552	0.047	0.1103	46.9

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Results for 30 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.95%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	IC-0101-S	66	1.134	0.034	2.1	0.1135	0.0000	OK	001	IC-0102-S	2.1	0.594	0.114	0.0498	
120 minute summer	IC-0102-S	66	0.992	0.042	3.1	0.1269	0.0000	OK	002	IC-0103-S	3.1	0.676	0.172	0.0685	
120 minute summer	IC-0103-S	66	0.851	0.051	4.3	0.0148	0.0000	OK	016	MH-0111-S	4.3	0.830	0.237	0.2176	
120 minute summer	MH-0106-S	102	0.838	0.618	6.5	0.6986	0.0000	SURCHARGED	014	MH-0115-S	4.6	0.287	0.063	0.9471	
120 minute summer	IC-0107-S	66	1.251	0.051	4.3	0.3441	0.0000	OK	006	IC-0108-S	4.3	0.737	0.242	0.0877	
120 minute summer	IC-0108-S	66	1.109	0.059	6.4	0.1110	0.0000	OK	007	IC-0109-S	6.4	0.886	0.303	0.0768	
120 minute summer	IC-0109-S	66	0.970	0.070	8.5	0.1559	0.0000	OK	008	IC-0110-S	8.5	0.972	0.431	0.2279	
120 minute summer	IC-0110-S	102	0.839	0.189	9.7	0.8396	0.0000	SURCHARGED	009	MH-0111-S	10.0	0.923	0.554	0.2562	
120 minute summer	MH-0111-S	102	0.838	0.338	16.4	0.9686	0.0000	SURCHARGED	010	MH-0112-S	15.6	0.748	0.187	1.2446	
120 minute summer	MH-0112-S	102	0.838	0.488	18.5	19.5023	0.0000	SURCHARGED	011	MH-0113-S	5.4	0.499	0.057	0.6850	
120 minute summer	MH-0113-S	102	0.838	0.558	10.2	3.7746	0.0000	SURCHARGED	013	MH-0106-S	6.5	0.499	0.072	0.6348	
120 minute summer	MH-0114-S	102	0.838	0.458	5.7	3.4301	0.0000	SURCHARGED	012	MH-0113-S	2.6	0.282	0.034	1.5089	
120 minute summer	MH-0115-S	102	0.838	0.678	4.6	0.7663	0.0000	OK	Hydro-Brake®	DUMMY	3.5				
120 minute summer	DITCH	104	0.114	0.044	3.5	0.0000	0.0000	OK							
120 minute summer	DUMMY	102	0.195	0.045	3.5	0.0506	0.0000	OK	017	DITCH	3.5	0.550	0.046	0.1090	53.9

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Results for 30 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.87%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	IC-0101-S	66	1.131	0.031	1.7	0.1022	0.0000	OK	001	IC-0102-S	1.7	0.561	0.093	0.0427	
120 minute winter	IC-0102-S	66	0.988	0.038	2.5	0.1134	0.0000	OK	002	IC-0103-S	2.5	0.636	0.139	0.1138	
120 minute winter	IC-0103-S	114	0.914	0.114	3.5	0.0333	0.0000	OK	016	MH-0111-S	3.5	0.776	0.193	0.3237	
120 minute winter	MH-0106-S	114	0.914	0.694	7.3	0.7846	0.0000	SURCHARGED	014	MH-0115-S	4.4	0.289	0.059	0.9471	
120 minute winter	IC-0107-S	66	1.246	0.046	3.5	0.3078	0.0000	OK	006	IC-0108-S	3.5	0.703	0.197	0.0749	
120 minute winter	IC-0108-S	66	1.102	0.052	5.2	0.0985	0.0000	OK	007	IC-0109-S	5.2	0.843	0.246	0.0656	
120 minute winter	IC-0109-S	66	0.962	0.062	6.9	0.1385	0.0000	OK	008	IC-0110-S	6.9	0.929	0.351	0.2399	
120 minute winter	IC-0110-S	114	0.915	0.265	7.9	1.1768	0.0000	SURCHARGED	009	MH-0111-S	7.9	0.849	0.437	0.2562	
120 minute winter	MH-0111-S	114	0.914	0.414	13.1	1.1865	0.0000	SURCHARGED	010	MH-0112-S	11.5	0.728	0.138	1.2446	
120 minute winter	MH-0112-S	114	0.914	0.564	13.1	22.9111	0.0000	SURCHARGED	011	MH-0113-S	6.8	0.501	0.073	0.6850	
120 minute winter	MH-0113-S	114	0.914	0.634	10.7	4.2892	0.0000	SURCHARGED	013	MH-0106-S	7.3	0.520	0.081	0.6348	
120 minute winter	MH-0114-S	114	0.914	0.534	3.9	3.9999	0.0000	SURCHARGED	012	MH-0113-S	3.3	0.302	0.043	1.5089	
120 minute winter	MH-0115-S	114	0.914	0.754	4.4	0.8523	0.0000	OK	Hydro-Brake®	DUMMY	3.7				
120 minute winter	DITCH	114	0.115	0.045	3.7	0.0000	0.0000	OK							
120 minute winter	DUMMY	114	0.196	0.046	3.7	0.0519	0.0000	OK	017	DITCH	3.7	0.558	0.049	0.1130	60.1

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Results for 30 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	IC-0101-S	96	1.130	0.030	1.6	0.0988	0.0000	OK	001	IC-0102-S	1.6	0.547	0.086	0.0408	
180 minute summer	IC-0102-S	96	0.987	0.037	2.4	0.1102	0.0000	OK	002	IC-0103-S	2.4	0.625	0.132	0.0566	
180 minute summer	IC-0103-S	96	0.845	0.045	3.4	0.0130	0.0000	OK	016	MH-0111-S	3.3	0.775	0.185	0.2113	
180 minute summer	MH-0106-S	136	0.835	0.615	4.6	0.6952	0.0000	SURCHARGED	014	MH-0115-S	3.6	0.245	0.049	0.9471	
180 minute summer	IC-0107-S	96	1.245	0.045	3.4	0.3014	0.0000	OK	006	IC-0108-S	3.4	0.698	0.189	0.0724	
180 minute summer	IC-0108-S	96	1.101	0.051	5.0	0.0958	0.0000	OK	007	IC-0109-S	4.9	0.836	0.233	0.0628	
180 minute summer	IC-0109-S	96	0.960	0.060	6.5	0.1337	0.0000	OK	008	IC-0110-S	6.5	0.910	0.330	0.2193	
180 minute summer	IC-0110-S	136	0.836	0.186	7.5	0.8260	0.0000	SURCHARGED	009	MH-0111-S	7.5	0.839	0.415	0.2562	
180 minute summer	MH-0111-S	136	0.835	0.335	12.4	0.9599	0.0000	SURCHARGED	010	MH-0112-S	11.6	0.700	0.139	1.2446	
180 minute summer	MH-0112-S	136	0.835	0.485	13.2	19.3684	0.0000	SURCHARGED	011	MH-0113-S	6.6	0.492	0.070	0.6850	
180 minute summer	MH-0113-S	136	0.835	0.555	11.3	3.7542	0.0000	SURCHARGED	013	MH-0106-S	4.6	0.480	0.051	0.6348	
180 minute summer	MH-0114-S	136	0.835	0.455	3.8	3.4073	0.0000	SURCHARGED	012	MH-0113-S	3.4	0.259	0.045	1.5089	
180 minute summer	MH-0115-S	136	0.834	0.674	3.6	0.7629	0.0000	OK	Hydro-Brake®	DUMMY	3.5				
180 minute summer	DITCH	136	0.114	0.044	3.5	0.0000	0.0000	OK							
180 minute summer	DUMMY	136	0.195	0.045	3.5	0.0505	0.0000	OK	017	DITCH	3.5	0.549	0.046	0.1088	61.6

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Results for 30 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.94%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	IC-0101-S	96	1.127	0.027	1.3	0.0897	0.0000	OK	001	IC-0102-S	1.3	0.521	0.071	0.0351	
180 minute winter	IC-0102-S	100	0.983	0.033	1.9	0.0987	0.0000	OK	002	IC-0103-S	1.9	0.595	0.106	0.1122	
180 minute winter	IC-0103-S	144	0.913	0.113	2.6	0.0328	0.0000	OK	016	MH-0111-S	2.6	0.719	0.144	0.3215	
180 minute winter	MH-0106-S	144	0.912	0.692	5.5	0.7827	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.268	0.051	0.9471	
180 minute winter	IC-0107-S	96	1.240	0.040	2.7	0.2672	0.0000	OK	006	IC-0108-S	2.7	0.658	0.151	0.0612	
180 minute winter	IC-0108-S	96	1.095	0.045	4.0	0.0849	0.0000	OK	007	IC-0109-S	4.0	0.790	0.188	0.0535	
180 minute winter	IC-0109-S	96	0.954	0.054	5.3	0.1191	0.0000	OK	008	IC-0110-S	5.3	0.870	0.268	0.2295	
180 minute winter	IC-0110-S	144	0.914	0.264	6.0	1.1696	0.0000	SURCHARGED	009	MH-0111-S	5.9	0.768	0.329	0.2562	
180 minute winter	MH-0111-S	144	0.912	0.412	9.8	1.1816	0.0000	SURCHARGED	010	MH-0112-S	8.8	0.671	0.105	1.2446	
180 minute winter	MH-0112-S	144	0.912	0.562	10.1	22.8356	0.0000	SURCHARGED	011	MH-0113-S	5.9	0.478	0.063	0.6850	
180 minute winter	MH-0113-S	144	0.912	0.632	9.4	4.2778	0.0000	SURCHARGED	013	MH-0106-S	5.5	0.484	0.061	0.6348	
180 minute winter	MH-0114-S	144	0.912	0.532	3.2	3.9872	0.0000	SURCHARGED	012	MH-0113-S	2.3	0.253	0.031	1.5089	
180 minute winter	MH-0115-S	144	0.912	0.752	3.8	0.8503	0.0000	OK	Hydro-Brake®	DUMMY	3.7				
180 minute winter	DITCH	144	0.115	0.045	3.7	0.0000	0.0000	OK							
180 minute winter	DUMMY	144	0.196	0.046	3.7	0.0519	0.0000	OK	017	DITCH	3.7	0.558	0.049	0.1129	68.1

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Results for 30 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	IC-0101-S	128	1.128	0.028	1.4	0.0929	0.0000	OK	001	IC-0102-S	1.4	0.527	0.076	0.0374	
240 minute summer	IC-0102-S	128	0.985	0.035	2.1	0.1037	0.0000	OK	002	IC-0103-S	2.1	0.600	0.117	0.0514	
240 minute summer	IC-0103-S	128	0.841	0.041	2.9	0.0120	0.0000	OK	016	MH-0111-S	2.9	0.741	0.160	0.2078	
240 minute summer	MH-0106-S	172	0.828	0.608	5.0	0.6874	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.231	0.051	0.9471	
240 minute summer	IC-0107-S	128	1.241	0.041	2.8	0.2734	0.0000	OK	006	IC-0108-S	2.8	0.664	0.158	0.0635	
240 minute summer	IC-0108-S	128	1.096	0.046	4.2	0.0875	0.0000	OK	007	IC-0109-S	4.2	0.800	0.199	0.0559	
240 minute summer	IC-0109-S	128	0.955	0.055	5.6	0.1232	0.0000	OK	008	IC-0110-S	5.6	0.882	0.286	0.2153	
240 minute summer	IC-0110-S	172	0.829	0.179	6.4	0.7950	0.0000	SURCHARGED	009	MH-0111-S	6.4	0.789	0.355	0.2562	
240 minute summer	MH-0111-S	172	0.828	0.328	10.7	0.9401	0.0000	SURCHARGED	010	MH-0112-S	9.6	0.671	0.115	1.2446	
240 minute summer	MH-0112-S	172	0.828	0.478	11.0	19.0569	0.0000	SURCHARGED	011	MH-0113-S	6.1	0.477	0.065	0.6850	
240 minute summer	MH-0113-S	172	0.828	0.548	10.0	3.7073	0.0000	SURCHARGED	013	MH-0106-S	5.0	0.475	0.055	0.6348	
240 minute summer	MH-0114-S	172	0.828	0.448	3.2	3.3556	0.0000	SURCHARGED	012	MH-0113-S	2.6	0.237	0.034	1.5089	
240 minute summer	MH-0115-S	172	0.828	0.668	3.8	0.7550	0.0000	OK	Hydro-Brake®	DUMMY	3.5				
240 minute summer	DITCH	172	0.113	0.043	3.5	0.0000	0.0000	OK							
240 minute summer	DUMMY	172	0.195	0.045	3.5	0.0504	0.0000	OK	017	DITCH	3.5	0.549	0.046	0.1085	66.6

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Results for 30 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	IC-0101-S	128	1.124	0.024	1.0	0.0789	0.0000	OK	001	IC-0102-S	1.0	0.478	0.054	0.0295	
240 minute winter	IC-0102-S	128	0.979	0.029	1.5	0.0878	0.0000	OK	002	IC-0103-S	1.5	0.550	0.084	0.0929	
240 minute winter	IC-0103-S	184	0.894	0.094	2.1	0.0273	0.0000	OK	016	MH-0111-S	2.1	0.681	0.116	0.2951	
240 minute winter	MH-0106-S	184	0.893	0.673	5.8	0.7614	0.0000	SURCHARGED	014	MH-0115-S	4.3	0.256	0.058	0.9471	
240 minute winter	IC-0107-S	128	1.236	0.036	2.2	0.2417	0.0000	OK	006	IC-0108-S	2.2	0.630	0.124	0.0525	
240 minute winter	IC-0108-S	128	1.090	0.040	3.2	0.0756	0.0000	OK	007	IC-0109-S	3.2	0.752	0.151	0.0453	
240 minute winter	IC-0109-S	128	0.947	0.047	4.2	0.1053	0.0000	OK	008	IC-0110-S	4.2	0.817	0.214	0.2223	
240 minute winter	IC-0110-S	184	0.895	0.245	4.8	1.0859	0.0000	SURCHARGED	009	MH-0111-S	4.8	0.731	0.266	0.2562	
240 minute winter	MH-0111-S	184	0.894	0.394	7.9	1.1276	0.0000	SURCHARGED	010	MH-0112-S	6.9	0.641	0.083	1.2446	
240 minute winter	MH-0112-S	184	0.893	0.543	8.5	21.9903	0.0000	SURCHARGED	011	MH-0113-S	4.0	0.487	0.043	0.6850	
240 minute winter	MH-0113-S	184	0.893	0.613	7.1	4.1502	0.0000	SURCHARGED	013	MH-0106-S	5.8	0.473	0.064	0.6348	
240 minute winter	MH-0114-S	184	0.893	0.513	3.3	3.8460	0.0000	SURCHARGED	012	MH-0113-S	2.1	0.262	0.028	1.5089	
240 minute winter	MH-0115-S	184	0.893	0.733	4.3	0.8290	0.0000	OK	Hydro-Brake®	DUMMY	3.7				
240 minute winter	DITCH	184	0.114	0.044	3.7	0.0000	0.0000	OK							
240 minute winter	DUMMY	184	0.196	0.046	3.7	0.0515	0.0000	OK	017	DITCH	3.7	0.556	0.048	0.1119	74.3

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Results for 30 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	IC-0101-S	192	1.124	0.024	1.0	0.0789	0.0000	OK	001	IC-0102-S	1.0	0.478	0.054	0.0295	
360 minute summer	IC-0102-S	192	0.979	0.029	1.5	0.0878	0.0000	OK	002	IC-0103-S	1.5	0.543	0.084	0.0406	
360 minute summer	IC-0103-S	192	0.835	0.035	2.1	0.0102	0.0000	OK	016	MH-0111-S	2.1	0.673	0.116	0.1992	
360 minute summer	MH-0106-S	240	0.791	0.571	5.2	0.6461	0.0000	SURCHARGED	014	MH-0115-S	3.5	0.176	0.047	0.9471	
360 minute summer	IC-0107-S	192	1.235	0.035	2.1	0.2358	0.0000	OK	006	IC-0108-S	2.1	0.620	0.118	0.0510	
360 minute summer	IC-0108-S	192	1.089	0.039	3.1	0.0743	0.0000	OK	007	IC-0109-S	3.1	0.745	0.147	0.0444	
360 minute summer	IC-0109-S	192	0.947	0.047	4.1	0.1040	0.0000	OK	008	IC-0110-S	4.1	0.811	0.209	0.1983	
360 minute summer	IC-0110-S	240	0.793	0.143	4.7	0.6326	0.0000	OK	009	MH-0111-S	4.7	0.751	0.261	0.2539	
360 minute summer	MH-0111-S	240	0.792	0.292	7.8	0.8352	0.0000	OK	010	MH-0112-S	7.4	0.628	0.088	1.2398	
360 minute summer	MH-0112-S	240	0.791	0.441	8.4	17.4184	0.0000	SURCHARGED	011	MH-0113-S	5.6	0.465	0.060	0.6850	
360 minute summer	MH-0113-S	240	0.791	0.511	9.0	3.4600	0.0000	SURCHARGED	013	MH-0106-S	5.2	0.468	0.057	0.6348	
360 minute summer	MH-0114-S	240	0.791	0.411	2.3	3.0817	0.0000	SURCHARGED	012	MH-0113-S	2.2	0.208	0.029	1.5089	
360 minute summer	MH-0115-S	240	0.791	0.631	3.5	0.7137	0.0000	OK	Hydro-Brake®	DUMMY	3.4				
360 minute summer	DITCH	240	0.113	0.043	3.4	0.0000	0.0000	OK							
360 minute summer	DUMMY	240	0.194	0.044	3.4	0.0497	0.0000	OK	017	DITCH	3.4	0.544	0.045	0.1064	73.4

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Results for 30 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	IC-0101-S	192	1.121	0.021	0.8	0.0708	0.0000	OK	001	IC-0102-S	0.8	0.447	0.044	0.0252	
360 minute winter	IC-0102-S	192	0.976	0.026	1.2	0.0788	0.0000	OK	002	IC-0103-S	1.2	0.524	0.067	0.0391	
360 minute winter	IC-0103-S	264	0.844	0.044	1.6	0.0127	0.0000	OK	016	MH-0111-S	1.6	0.627	0.088	0.2212	
360 minute winter	MH-0106-S	264	0.843	0.623	4.9	0.7049	0.0000	SURCHARGED	014	MH-0115-S	3.7	0.216	0.050	0.9471	
360 minute winter	IC-0107-S	192	1.230	0.030	1.6	0.2051	0.0000	OK	006	IC-0108-S	1.6	0.574	0.090	0.0420	
360 minute winter	IC-0108-S	192	1.084	0.034	2.4	0.0649	0.0000	OK	007	IC-0109-S	2.4	0.694	0.114	0.0369	
360 minute winter	IC-0109-S	192	0.941	0.041	3.2	0.0913	0.0000	OK	008	IC-0110-S	3.2	0.763	0.163	0.2104	
360 minute winter	IC-0110-S	264	0.845	0.195	3.6	0.8633	0.0000	SURCHARGED	009	MH-0111-S	3.6	0.676	0.200	0.2562	
360 minute winter	MH-0111-S	264	0.844	0.344	6.0	0.9844	0.0000	SURCHARGED	010	MH-0112-S	5.3	0.591	0.064	1.2446	
360 minute winter	MH-0112-S	264	0.843	0.493	6.1	19.7500	0.0000	SURCHARGED	011	MH-0113-S	4.9	0.478	0.052	0.6850	
360 minute winter	MH-0113-S	264	0.843	0.563	7.8	3.8119	0.0000	SURCHARGED	013	MH-0106-S	4.9	0.468	0.054	0.6348	
360 minute winter	MH-0114-S	264	0.843	0.463	2.2	3.4713	0.0000	SURCHARGED	012	MH-0113-S	2.0	0.189	0.027	1.5089	
360 minute winter	MH-0115-S	264	0.843	0.683	3.7	0.7725	0.0000	OK	Hydro-Brake®	DUMMY	3.5				
360 minute winter	DITCH	264	0.114	0.044	3.5	0.0000	0.0000	OK							
360 minute winter	DUMMY	264	0.195	0.045	3.5	0.0507	0.0000	OK	017	DITCH	3.5	0.550	0.047	0.1093	81.7

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Results for 30 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	IC-0101-S	248	1.121	0.021	0.8	0.0708	0.0000	OK	001	IC-0102-S	0.8	0.447	0.044	0.0252	
480 minute summer	IC-0102-S	248	0.976	0.026	1.2	0.0788	0.0000	OK	002	IC-0103-S	1.2	0.507	0.067	0.0348	
480 minute summer	IC-0103-S	248	0.831	0.031	1.7	0.0092	0.0000	OK	016	MH-0111-S	1.7	0.641	0.094	0.1936	
480 minute summer	MH-0106-S	312	0.748	0.528	5.1	0.5977	0.0000	SURCHARGED	014	MH-0115-S	3.7	0.198	0.050	0.9471	
480 minute summer	IC-0107-S	248	1.231	0.031	1.7	0.2108	0.0000	OK	006	IC-0108-S	1.7	0.586	0.095	0.0433	
480 minute summer	IC-0108-S	248	1.085	0.035	2.5	0.0661	0.0000	OK	007	IC-0109-S	2.5	0.703	0.117	0.0376	
480 minute summer	IC-0109-S	248	0.941	0.041	3.3	0.0922	0.0000	OK	008	IC-0110-S	3.3	0.762	0.167	0.1478	
480 minute summer	IC-0110-S	304	0.749	0.099	3.8	0.4407	0.0000	OK	009	MH-0111-S	3.8	0.700	0.209	0.2182	
480 minute summer	MH-0111-S	312	0.749	0.249	6.3	0.7125	0.0000	OK	010	MH-0112-S	6.0	0.619	0.072	1.1741	
480 minute summer	MH-0112-S	312	0.749	0.399	6.8	15.5022	0.0000	SURCHARGED	011	MH-0113-S	3.8	0.463	0.041	0.6850	
480 minute summer	MH-0113-S	312	0.749	0.469	6.2	3.1706	0.0000	SURCHARGED	013	MH-0106-S	5.1	0.468	0.056	0.6348	
480 minute summer	MH-0114-S	312	0.749	0.369	2.5	2.7613	0.0000	SURCHARGED	012	MH-0113-S	1.7	0.225	0.023	1.5089	
480 minute summer	MH-0115-S	312	0.748	0.588	3.7	0.6654	0.0000	OK	Hydro-Brake®	DUMMY	3.3				
480 minute summer	DITCH	312	0.112	0.042	3.3	0.0000	0.0000	OK							
480 minute summer	DUMMY	312	0.193	0.043	3.3	0.0489	0.0000	OK	017	DITCH	3.3	0.539	0.043	0.1039	77.7

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Results for 30 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	IC-0101-S	240	1.119	0.019	0.6	0.0617	0.0000	OK	001	IC-0102-S	0.6	0.410	0.033	0.0206	
480 minute winter	IC-0102-S	240	0.973	0.023	0.9	0.0685	0.0000	OK	002	IC-0103-S	0.9	0.482	0.050	0.0286	
480 minute winter	IC-0103-S	248	0.828	0.028	1.3	0.0080	0.0000	OK	016	MH-0111-S	1.3	0.593	0.072	0.1954	
480 minute winter	MH-0106-S	336	0.785	0.565	5.0	0.6393	0.0000	SURCHARGED	014	MH-0115-S	3.5	0.188	0.047	0.9471	
480 minute winter	IC-0107-S	256	1.228	0.027	1.3	0.1852	0.0000	OK	006	IC-0108-S	1.3	0.547	0.073	0.0358	
480 minute winter	IC-0108-S	256	1.080	0.030	1.9	0.0576	0.0000	OK	007	IC-0109-S	1.9	0.655	0.090	0.0309	
480 minute winter	IC-0109-S	256	0.936	0.036	2.5	0.0804	0.0000	OK	008	IC-0110-S	2.5	0.705	0.128	0.1921	
480 minute winter	IC-0110-S	336	0.786	0.136	2.9	0.6055	0.0000	OK	009	MH-0111-S	2.9	0.646	0.161	0.2506	
480 minute winter	MH-0111-S	336	0.786	0.286	4.8	0.8182	0.0000	OK	010	MH-0112-S	4.5	0.570	0.054	1.2338	
480 minute winter	MH-0112-S	336	0.785	0.435	5.1	17.1510	0.0000	SURCHARGED	011	MH-0113-S	4.2	0.471	0.045	0.6850	
480 minute winter	MH-0113-S	336	0.785	0.505	6.3	3.4195	0.0000	SURCHARGED	013	MH-0106-S	5.0	0.467	0.055	0.6348	
480 minute winter	MH-0114-S	336	0.785	0.405	1.7	3.0368	0.0000	SURCHARGED	012	MH-0113-S	1.4	0.203	0.019	1.5089	
480 minute winter	MH-0115-S	336	0.785	0.625	3.5	0.7069	0.0000	OK	Hydro-Brake®	DUMMY	3.4				
480 minute winter	DITCH	336	0.113	0.043	3.4	0.0000	0.0000	OK							
480 minute winter	DUMMY	336	0.194	0.044	3.4	0.0496	0.0000	OK	017	DITCH	3.4	0.543	0.045	0.1061	87.4

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Results for 30 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	IC-0101-S	315	1.120	0.020	0.7	0.0665	0.0000	OK	001	IC-0102-S	0.7	0.437	0.038	0.0225	
600 minute summer	IC-0102-S	315	0.974	0.024	1.0	0.0720	0.0000	OK	002	IC-0103-S	1.0	0.484	0.056	0.0304	
600 minute summer	IC-0103-S	315	0.829	0.029	1.4	0.0083	0.0000	OK	016	MH-0111-S	1.4	0.606	0.077	0.1573	
600 minute summer	MH-0106-S	375	0.704	0.484	3.2	0.5476	0.0000	SURCHARGED	014	MH-0115-S	3.2	0.170	0.043	0.9471	
600 minute summer	IC-0107-S	315	1.228	0.028	1.4	0.1919	0.0000	OK	006	IC-0108-S	1.4	0.554	0.079	0.0381	
600 minute summer	IC-0108-S	315	1.082	0.032	2.1	0.0606	0.0000	OK	007	IC-0109-S	2.1	0.671	0.099	0.0334	
600 minute summer	IC-0109-S	315	0.938	0.038	2.8	0.0851	0.0000	OK	008	IC-0110-S	2.8	0.731	0.143	0.0792	
600 minute summer	IC-0110-S	375	0.705	0.055	3.2	0.2436	0.0000	OK	009	MH-0111-S	3.2	0.673	0.178	0.1706	
600 minute summer	MH-0111-S	375	0.704	0.204	5.3	0.5857	0.0000	OK	010	MH-0112-S	5.1	0.557	0.061	1.0742	
600 minute summer	MH-0112-S	375	0.704	0.354	5.8	13.5169	0.0000	SURCHARGED	011	MH-0113-S	4.0	0.471	0.042	0.6850	
600 minute summer	MH-0113-S	375	0.704	0.424	5.4	2.8709	0.0000	SURCHARGED	013	MH-0106-S	3.2	0.469	0.035	0.6348	
600 minute summer	MH-0114-S	375	0.704	0.324	1.6	2.4294	0.0000	SURCHARGED	012	MH-0113-S	0.9	0.182	0.012	1.5089	
600 minute summer	MH-0115-S	375	0.704	0.544	3.2	0.6153	0.0000	OK	Hydro-Brake®	DUMMY	3.2				
600 minute summer	DITCH	375	0.111	0.041	3.2	0.0000	0.0000	OK							
600 minute summer	DUMMY	375	0.192	0.042	3.2	0.0480	0.0000	OK	017	DITCH	3.2	0.533	0.042	0.1012	81.2

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Results for 30 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	IC-0101-S	300	1.117	0.017	0.5	0.0567	0.0000	OK	001	IC-0102-S	0.5	0.397	0.027	0.0186	
600 minute winter	IC-0102-S	315	0.972	0.022	0.8	0.0647	0.0000	OK	002	IC-0103-S	0.8	0.456	0.045	0.0258	
600 minute winter	IC-0103-S	315	0.825	0.025	1.1	0.0074	0.0000	OK	016	MH-0111-S	1.1	0.565	0.061	0.1655	
600 minute winter	MH-0106-S	405	0.710	0.490	5.6	0.5546	0.0000	SURCHARGED	014	MH-0115-S	4.1	0.222	0.056	0.9471	
600 minute winter	IC-0107-S	315	1.225	0.025	1.1	0.1706	0.0000	OK	006	IC-0108-S	1.1	0.522	0.062	0.0317	
600 minute winter	IC-0108-S	315	1.078	0.028	1.6	0.0529	0.0000	OK	007	IC-0109-S	1.6	0.624	0.076	0.0273	
600 minute winter	IC-0109-S	315	0.933	0.033	2.1	0.0737	0.0000	OK	008	IC-0110-S	2.1	0.673	0.107	0.0885	
600 minute winter	IC-0110-S	405	0.711	0.061	2.4	0.2704	0.0000	OK	009	MH-0111-S	2.4	0.622	0.133	0.1770	
600 minute winter	MH-0111-S	405	0.711	0.211	4.0	0.6033	0.0000	OK	010	MH-0112-S	4.0	0.553	0.047	1.0893	
600 minute winter	MH-0112-S	405	0.711	0.361	4.5	13.7938	0.0000	SURCHARGED	011	MH-0113-S	3.5	0.444	0.037	0.6850	
600 minute winter	MH-0113-S	405	0.710	0.430	5.0	2.9127	0.0000	SURCHARGED	013	MH-0106-S	5.6	0.469	0.062	0.6348	
600 minute winter	MH-0114-S	405	0.711	0.331	1.6	2.4758	0.0000	SURCHARGED	012	MH-0113-S	1.0	0.190	0.014	1.5089	
600 minute winter	MH-0115-S	405	0.710	0.550	4.1	0.6223	0.0000	OK	Hydro-Brake®	DUMMY	3.2				
600 minute winter	DITCH	405	0.112	0.042	3.2	0.0000	0.0000	OK							
600 minute winter	DUMMY	405	0.193	0.043	3.2	0.0481	0.0000	OK	017	DITCH	3.2	0.534	0.042	0.1016	89.9

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Results for 30 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	IC-0101-S	375	1.119	0.019	0.6	0.0617	0.0000	OK	001	IC-0102-S	0.6	0.410	0.033	0.0206	
720 minute summer	IC-0102-S	375	0.973	0.023	0.9	0.0685	0.0000	OK	002	IC-0103-S	0.9	0.477	0.050	0.0277	
720 minute summer	IC-0103-S	375	0.826	0.026	1.2	0.0077	0.0000	OK	016	MH-0111-S	1.2	0.579	0.066	0.1108	
720 minute summer	MH-0106-S	450	0.671	0.451	4.7	0.5100	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.170	0.052	0.9471	
720 minute summer	IC-0107-S	375	1.226	0.026	1.2	0.1781	0.0000	OK	006	IC-0108-S	1.2	0.529	0.068	0.0341	
720 minute summer	IC-0108-S	375	1.080	0.030	1.8	0.0561	0.0000	OK	007	IC-0109-S	1.8	0.642	0.085	0.0299	
720 minute summer	IC-0109-S	375	0.935	0.035	2.4	0.0788	0.0000	OK	008	IC-0110-S	2.4	0.704	0.122	0.0701	
720 minute summer	IC-0110-S	375	0.689	0.039	2.7	0.1738	0.0000	OK	009	MH-0111-S	2.7	0.641	0.150	0.1466	
720 minute summer	MH-0111-S	450	0.671	0.171	4.5	0.4903	0.0000	OK	010	MH-0112-S	4.4	0.553	0.053	0.9589	
720 minute summer	MH-0112-S	450	0.671	0.321	5.0	12.0429	0.0000	SURCHARGED	011	MH-0113-S	3.6	0.485	0.038	0.6850	
720 minute summer	MH-0113-S	450	0.671	0.391	5.3	2.6460	0.0000	SURCHARGED	013	MH-0106-S	4.7	0.469	0.052	0.6348	
720 minute summer	MH-0114-S	450	0.671	0.291	1.4	2.1804	0.0000	OK	012	MH-0113-S	1.2	0.178	0.015	1.5027	
720 minute summer	MH-0115-S	450	0.671	0.511	3.8	0.5777	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
720 minute summer	DITCH	450	0.111	0.041	3.1	0.0000	0.0000	OK							
720 minute summer	DUMMY	450	0.192	0.042	3.1	0.0473	0.0000	OK	017	DITCH	3.1	0.528	0.041	0.0990	84.3

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Results for 30 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	IC-0101-S	345	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.363	0.022	0.0155	
720 minute winter	IC-0102-S	345	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.427	0.033	0.0218	
720 minute winter	IC-0103-S	375	0.823	0.023	0.9	0.0067	0.0000	OK	016	MH-0111-S	0.9	0.533	0.050	0.1135	
720 minute winter	MH-0106-S	465	0.673	0.453	4.6	0.5118	0.0000	SURCHARGED	014	MH-0115-S	3.3	0.170	0.045	0.9471	
720 minute winter	IC-0107-S	375	1.223	0.023	0.9	0.1548	0.0000	OK	006	IC-0108-S	0.9	0.493	0.051	0.0275	
720 minute winter	IC-0108-S	375	1.075	0.025	1.3	0.0478	0.0000	OK	007	IC-0109-S	1.3	0.588	0.062	0.0236	
720 minute winter	IC-0109-S	375	0.930	0.030	1.7	0.0664	0.0000	OK	008	IC-0110-S	1.7	0.638	0.087	0.0558	
720 minute winter	IC-0110-S	375	0.684	0.034	2.0	0.1495	0.0000	OK	009	MH-0111-S	2.0	0.592	0.111	0.1461	
720 minute winter	MH-0111-S	465	0.673	0.173	3.3	0.4950	0.0000	OK	010	MH-0112-S	3.3	0.553	0.039	0.9655	
720 minute winter	MH-0112-S	465	0.673	0.323	3.7	12.1128	0.0000	SURCHARGED	011	MH-0113-S	3.3	0.487	0.035	0.6850	
720 minute winter	MH-0113-S	465	0.673	0.393	4.9	2.6567	0.0000	SURCHARGED	013	MH-0106-S	4.6	0.469	0.050	0.6348	
720 minute winter	MH-0114-S	465	0.673	0.293	1.0	2.1923	0.0000	OK	012	MH-0113-S	1.1	0.177	0.014	1.5041	
720 minute winter	MH-0115-S	465	0.672	0.512	3.3	0.5795	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
720 minute winter	DITCH	465	0.111	0.041	3.1	0.0000	0.0000	OK							
720 minute winter	DUMMY	465	0.192	0.042	3.1	0.0473	0.0000	OK	017	DITCH	3.1	0.529	0.041	0.0991	92.5

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Results for 30 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	IC-0101-S	495	1.117	0.017	0.5	0.0567	0.0000	OK	001	IC-0102-S	0.5	0.398	0.027	0.0177	
960 minute summer	IC-0102-S	495	0.970	0.020	0.7	0.0607	0.0000	OK	002	IC-0103-S	0.7	0.432	0.039	0.0238	
960 minute summer	IC-0103-S	495	0.824	0.024	1.0	0.0070	0.0000	OK	016	MH-0111-S	1.0	0.550	0.055	0.0368	
960 minute summer	MH-0106-S	570	0.613	0.393	3.7	0.4441	0.0000	SURCHARGED	014	MH-0115-S	3.2	0.220	0.043	0.9471	
960 minute summer	IC-0107-S	495	1.224	0.024	1.0	0.1629	0.0000	OK	006	IC-0108-S	1.0	0.502	0.056	0.0300	
960 minute summer	IC-0108-S	495	1.077	0.027	1.5	0.0513	0.0000	OK	007	IC-0109-S	1.5	0.609	0.071	0.0263	
960 minute summer	IC-0109-S	495	0.932	0.032	2.0	0.0719	0.0000	OK	008	IC-0110-S	2.0	0.662	0.102	0.0621	
960 minute summer	IC-0110-S	495	0.686	0.036	2.3	0.1603	0.0000	OK	009	MH-0111-S	2.3	0.618	0.128	0.1175	
960 minute summer	MH-0111-S	570	0.613	0.113	3.8	0.3233	0.0000	OK	010	MH-0112-S	3.8	0.557	0.046	0.6863	
960 minute summer	MH-0112-S	570	0.613	0.263	4.6	9.5617	0.0000	OK	011	MH-0113-S	2.7	0.490	0.028	0.6607	
960 minute summer	MH-0113-S	570	0.613	0.333	3.7	2.2517	0.0000	SURCHARGED	013	MH-0106-S	3.7	0.469	0.041	0.6348	
960 minute summer	MH-0114-S	570	0.613	0.233	1.9	1.7439	0.0000	OK	012	MH-0113-S	-1.0	0.179	-0.013	1.3830	
960 minute summer	MH-0115-S	570	0.613	0.453	3.2	0.5118	0.0000	OK	Hydro-Brake®	DUMMY	2.9				
960 minute summer	DITCH	570	0.110	0.040	2.9	0.0000	0.0000	OK							
960 minute summer	DUMMY	570	0.191	0.041	2.9	0.0460	0.0000	OK	017	DITCH	2.9	0.520	0.038	0.0950	84.3

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Results for 30 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	IC-0101-S	435	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0133	
960 minute winter	IC-0102-S	450	0.967	0.017	0.5	0.0517	0.0000	OK	002	IC-0103-S	0.5	0.394	0.028	0.0187	
960 minute winter	IC-0103-S	450	0.820	0.020	0.7	0.0059	0.0000	OK	016	MH-0111-S	0.7	0.495	0.039	0.0286	
960 minute winter	MH-0106-S	585	0.574	0.354	2.8	0.3999	0.0000	SURCHARGED	014	MH-0115-S	2.8	0.194	0.038	0.9471	
960 minute winter	IC-0107-S	480	1.220	0.020	0.7	0.1371	0.0000	OK	006	IC-0108-S	0.7	0.459	0.039	0.0229	
960 minute winter	IC-0108-S	480	1.072	0.022	1.0	0.0421	0.0000	OK	007	IC-0109-S	1.0	0.545	0.047	0.0196	
960 minute winter	IC-0109-S	480	0.926	0.026	1.3	0.0582	0.0000	OK	008	IC-0110-S	1.3	0.583	0.066	0.0458	
960 minute winter	IC-0110-S	480	0.679	0.029	1.5	0.1296	0.0000	OK	009	MH-0111-S	1.5	0.539	0.083	0.0765	
960 minute winter	MH-0111-S	585	0.574	0.074	2.5	0.2112	0.0000	OK	010	MH-0112-S	2.5	0.527	0.030	0.4922	
960 minute winter	MH-0112-S	585	0.574	0.224	2.8	7.9705	0.0000	OK	011	MH-0113-S	4.6	0.450	0.049	0.6148	
960 minute winter	MH-0113-S	585	0.574	0.294	6.6	1.9873	0.0000	OK	013	MH-0106-S	2.8	0.464	0.031	0.6331	
960 minute winter	MH-0114-S	585	0.574	0.194	0.8	1.4513	0.0000	OK	012	MH-0113-S	1.6	0.224	0.021	1.2660	
960 minute winter	MH-0115-S	585	0.573	0.413	2.8	0.4677	0.0000	OK	Hydro-Brake®	DUMMY	2.8				
960 minute winter	DITCH	585	0.109	0.039	2.8	0.0000	0.0000	OK							
960 minute winter	DUMMY	585	0.190	0.040	2.8	0.0450	0.0000	OK	017	DITCH	2.8	0.513	0.037	0.0922	96.1

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Results for 30 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	IC-0101-S	720	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0133	
1440 minute summer	IC-0102-S	750	0.967	0.017	0.5	0.0517	0.0000	OK	002	IC-0103-S	0.5	0.394	0.028	0.0187	
1440 minute summer	IC-0103-S	750	0.820	0.020	0.7	0.0059	0.0000	OK	016	MH-0111-S	0.7	0.495	0.039	0.0286	
1440 minute summer	MH-0106-S	810	0.499	0.279	4.0	0.3161	0.0000	OK	014	MH-0115-S	3.3	0.168	0.044	0.9332	
1440 minute summer	IC-0107-S	750	1.220	0.020	0.7	0.1371	0.0000	OK	006	IC-0108-S	0.7	0.459	0.039	0.0229	
1440 minute summer	IC-0108-S	750	1.072	0.022	1.0	0.0421	0.0000	OK	007	IC-0109-S	1.0	0.545	0.047	0.0196	
1440 minute summer	IC-0109-S	750	0.926	0.026	1.3	0.0582	0.0000	OK	008	IC-0110-S	1.3	0.583	0.066	0.0458	
1440 minute summer	IC-0110-S	750	0.679	0.029	1.5	0.1296	0.0000	OK	009	MH-0111-S	1.5	0.539	0.083	0.0407	
1440 minute summer	MH-0111-S	720	0.536	0.036	2.5	0.1026	0.0000	OK	010	MH-0112-S	2.5	0.527	0.030	0.2088	
1440 minute summer	MH-0112-S	810	0.499	0.149	3.2	5.0781	0.0000	OK	011	MH-0113-S	4.1	0.451	0.043	0.4376	
1440 minute summer	MH-0113-S	810	0.499	0.219	5.4	1.4839	0.0000	OK	013	MH-0106-S	4.0	0.452	0.044	0.5568	
1440 minute summer	MH-0114-S	810	0.499	0.119	1.3	0.8879	0.0000	OK	012	MH-0113-S	0.9	0.203	0.012	0.8685	
1440 minute summer	MH-0115-S	810	0.499	0.339	3.3	0.3839	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
1440 minute summer	DITCH	810	0.107	0.037	2.5	0.0000	0.0000	OK							
1440 minute summer	DUMMY	810	0.188	0.038	2.5	0.0430	0.0000	OK	017	DITCH	2.5	0.499	0.033	0.0861	82.3

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Results for 30 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	IC-0101-S	600	1.111	0.011	0.2	0.0369	0.0000	OK	001	IC-0102-S	0.2	0.294	0.011	0.0096	
1440 minute winter	IC-0102-S	600	0.964	0.014	0.3	0.0406	0.0000	OK	002	IC-0103-S	0.3	0.344	0.017	0.0128	
1440 minute winter	IC-0103-S	600	0.816	0.016	0.4	0.0045	0.0000	OK	016	MH-0111-S	0.4	0.418	0.022	0.0194	
1440 minute winter	MH-0106-S	840	0.380	0.160	6.0	0.1814	0.0000	OK	014	MH-0115-S	4.1	0.169	0.056	0.6365	
1440 minute winter	IC-0107-S	720	1.217	0.017	0.5	0.1169	0.0000	OK	006	IC-0108-S	0.5	0.418	0.028	0.0180	
1440 minute winter	IC-0108-S	720	1.069	0.019	0.7	0.0355	0.0000	OK	007	IC-0109-S	0.7	0.492	0.033	0.0152	
1440 minute winter	IC-0109-S	720	0.922	0.022	0.9	0.0487	0.0000	OK	008	IC-0110-S	0.9	0.531	0.046	0.0349	
1440 minute winter	IC-0110-S	750	0.674	0.024	1.0	0.1064	0.0000	OK	009	MH-0111-S	1.0	0.477	0.055	0.0306	
1440 minute winter	MH-0111-S	720	0.529	0.029	1.6	0.0834	0.0000	OK	010	MH-0112-S	1.6	0.464	0.019	0.0609	
1440 minute winter	MH-0112-S	840	0.380	0.030	1.8	0.9478	0.0000	OK	011	MH-0113-S	1.8	0.451	0.019	0.1156	
1440 minute winter	MH-0113-S	870	0.380	0.100	3.2	0.6734	0.0000	OK	013	MH-0106-S	6.0	0.456	0.067	0.2623	
1440 minute winter	MH-0114-S	750	0.399	0.019	0.6	0.1429	0.0000	OK	012	MH-0113-S	0.6	0.237	0.008	0.2338	
1440 minute winter	MH-0115-S	840	0.384	0.224	4.1	0.2529	0.0000	OK	Hydro-Brake®	DUMMY	2.5				
1440 minute winter	DITCH	930	0.107	0.037	2.5	0.0000	0.0000	OK							
1440 minute winter	DUMMY	930	0.188	0.038	2.5	0.0426	0.0000	OK	017	DITCH	2.5	0.497	0.033	0.0851	92.5

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Results for 100 year 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.84%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0101-S	13	1.149	0.049	4.2	0.1631	0.0000	OK	001	IC-0102-S	4.2	0.700	0.229	0.0844	
15 minute summer	IC-0102-S	13	1.013	0.063	6.3	0.1885	0.0000	OK	002	IC-0103-S	6.3	0.789	0.350	0.1169	
15 minute summer	IC-0103-S	14	0.876	0.076	8.7	0.0221	0.0000	OK	016	MH-0111-S	8.7	0.996	0.480	0.2401	
15 minute summer	MH-0106-S	24	0.777	0.557	15.2	0.6299	0.0000	SURCHARGED	014	MH-0115-S	5.3	0.428	0.072	0.9471	
15 minute summer	IC-0107-S	13	1.277	0.077	8.7	0.5209	0.0000	OK	006	IC-0108-S	8.7	0.847	0.489	0.1543	
15 minute summer	IC-0108-S	13	1.142	0.092	12.9	0.1747	0.0000	OK	007	IC-0109-S	12.9	1.021	0.609	0.1347	
15 minute summer	IC-0109-S	12	1.011	0.111	17.1	0.2472	0.0000	OK	008	IC-0110-S	17.2	1.075	0.875	0.3241	
15 minute summer	IC-0110-S	17	0.851	0.201	19.6	0.8914	0.0000	SURCHARGED	009	MH-0111-S	18.5	1.059	1.024	0.2562	
15 minute summer	MH-0111-S	24	0.780	0.280	31.2	0.8017	0.0000	OK	010	MH-0112-S	31.4	1.054	0.377	1.2268	
15 minute summer	MH-0112-S	24	0.780	0.430	43.8	16.9061	0.0000	SURCHARGED	011	MH-0113-S	13.9	0.623	0.148	0.6850	
15 minute summer	MH-0113-S	24	0.778	0.498	25.5	3.3701	0.0000	SURCHARGED	013	MH-0106-S	15.2	0.731	0.168	0.6348	
15 minute summer	MH-0114-S	23	0.781	0.401	13.8	3.0047	0.0000	SURCHARGED	012	MH-0113-S	8.6	0.559	0.114	1.5089	
15 minute summer	MH-0115-S	24	0.776	0.616	5.3	0.6966	0.0000	OK	Hydro-Brake®	DUMMY	3.4				
15 minute summer	DITCH	23	0.113	0.043	3.4	0.0000	0.0000	OK							
15 minute summer	DUMMY	23	0.194	0.044	3.4	0.0495	0.0000	OK	017	DITCH	3.4	0.543	0.045	0.1058	34.9

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Results for 100 year 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.66%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	13	1.152	0.052	4.7	0.1738	0.0000	OK	001	IC-0102-S	4.7	0.720	0.256	0.0918	
15 minute winter	IC-0102-S	13	1.017	0.067	7.0	0.2009	0.0000	OK	002	IC-0103-S	7.0	0.809	0.389	0.1271	
15 minute winter	IC-0103-S	14	0.881	0.081	9.7	0.0236	0.0000	OK	016	MH-0111-S	9.7	1.022	0.535	0.2568	
15 minute winter	MH-0106-S	24	0.841	0.621	14.9	0.7020	0.0000	SURCHARGED	014	MH-0115-S	9.7	0.452	0.131	0.9471	
15 minute winter	IC-0107-S	13	1.284	0.084	9.8	0.5628	0.0000	OK	006	IC-0108-S	9.9	0.875	0.556	0.1839	
15 minute winter	IC-0108-S	16	1.170	0.120	14.5	0.2275	0.0000	OK	007	IC-0109-S	14.9	1.008	0.703	0.1741	
15 minute winter	IC-0109-S	16	1.114	0.214	19.5	0.4752	0.0000	SURCHARGED	008	IC-0110-S	18.1	1.084	0.923	0.3617	
15 minute winter	IC-0110-S	18	0.920	0.270	20.8	1.1986	0.0000	SURCHARGED	009	MH-0111-S	19.4	1.100	1.075	0.2562	
15 minute winter	MH-0111-S	24	0.838	0.338	33.7	0.9693	0.0000	SURCHARGED	010	MH-0112-S	33.0	1.073	0.396	1.2446	
15 minute winter	MH-0112-S	23	0.839	0.489	41.1	19.5446	0.0000	SURCHARGED	011	MH-0113-S	16.7	0.582	0.177	0.6850	
15 minute winter	MH-0113-S	24	0.840	0.560	30.7	3.7899	0.0000	SURCHARGED	013	MH-0106-S	14.9	0.737	0.165	0.6348	
15 minute winter	MH-0114-S	24	0.839	0.459	10.9	3.4378	0.0000	SURCHARGED	012	MH-0113-S	12.0	0.552	0.159	1.5089	
15 minute winter	MH-0115-S	23	0.841	0.681	9.7	0.7704	0.0000	OK	Hydro-Brake®	DUMMY	3.5				
15 minute winter	DITCH	25	0.114	0.044	3.5	0.0000	0.0000	OK							
15 minute winter	DUMMY	24	0.195	0.045	3.5	0.0506	0.0000	OK	017	DITCH	3.5	0.550	0.046	0.1090	39.1

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Results for 100 year 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.57%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	IC-0101-S	20	1.150	0.050	4.3	0.1653	0.0000	OK	001	IC-0102-S	4.3	0.704	0.234	0.0859	
30 minute summer	IC-0102-S	21	1.014	0.064	6.5	0.1912	0.0000	OK	002	IC-0103-S	6.4	0.804	0.359	0.1194	
30 minute summer	IC-0103-S	36	0.901	0.101	8.9	0.0294	0.0000	OK	016	MH-0111-S	9.0	1.003	0.497	0.3056	
30 minute summer	MH-0106-S	37	0.900	0.680	13.3	0.7694	0.0000	SURCHARGED	014	MH-0115-S	9.0	0.374	0.121	0.9471	
30 minute summer	IC-0107-S	21	1.279	0.079	9.0	0.5307	0.0000	OK	006	IC-0108-S	8.9	0.863	0.504	0.1582	
30 minute summer	IC-0108-S	21	1.144	0.094	13.2	0.1785	0.0000	OK	007	IC-0109-S	13.2	1.012	0.626	0.1431	
30 minute summer	IC-0109-S	24	1.043	0.143	17.5	0.3186	0.0000	OK	008	IC-0110-S	17.4	1.067	0.889	0.3588	
30 minute summer	IC-0110-S	26	0.922	0.272	19.9	1.2062	0.0000	SURCHARGED	009	MH-0111-S	18.2	1.049	1.011	0.2562	
30 minute summer	MH-0111-S	37	0.901	0.401	31.4	1.1482	0.0000	SURCHARGED	010	MH-0112-S	31.1	1.018	0.373	1.2446	
30 minute summer	MH-0112-S	37	0.901	0.551	35.4	22.3214	0.0000	SURCHARGED	011	MH-0113-S	11.1	0.593	0.118	0.6850	
30 minute summer	MH-0113-S	37	0.901	0.621	20.0	4.1988	0.0000	SURCHARGED	013	MH-0106-S	13.3	0.612	0.147	0.6348	
30 minute summer	MH-0114-S	37	0.901	0.521	14.5	3.9028	0.0000	SURCHARGED	012	MH-0113-S	7.8	0.400	0.103	1.5089	
30 minute summer	MH-0115-S	37	0.900	0.740	9.0	0.8369	0.0000	OK	Hydro-Brake®	DUMMY	3.7				
30 minute summer	DITCH	37	0.115	0.045	3.7	0.0000	0.0000	OK							
30 minute summer	DUMMY	37	0.196	0.046	3.7	0.0517	0.0000	OK	017	DITCH	3.7	0.557	0.048	0.1123	45.4

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Results for 100 year 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.44%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	IC-0101-S	20	1.151	0.051	4.5	0.1696	0.0000	OK	001	IC-0102-S	4.5	0.713	0.245	0.0890	
30 minute winter	IC-0102-S	21	1.016	0.066	6.8	0.1965	0.0000	OK	002	IC-0103-S	6.7	0.818	0.375	0.1518	
30 minute winter	IC-0103-S	37	0.972	0.172	9.3	0.0500	0.0000	SURCHARGED	016	MH-0111-S	9.5	1.008	0.523	0.3560	
30 minute winter	MH-0106-S	37	0.972	0.752	10.8	0.8504	0.0000	SURCHARGED	014	MH-0115-S	7.7	0.386	0.105	0.9471	
30 minute winter	IC-0107-S	21	1.281	0.081	9.4	0.5463	0.0000	OK	006	IC-0108-S	9.3	0.873	0.526	0.1638	
30 minute winter	IC-0108-S	24	1.152	0.102	13.8	0.1928	0.0000	OK	007	IC-0109-S	14.0	1.010	0.663	0.1614	
30 minute winter	IC-0109-S	25	1.113	0.213	18.5	0.4737	0.0000	SURCHARGED	008	IC-0110-S	17.7	1.067	0.904	0.3617	
30 minute winter	IC-0110-S	27	0.983	0.333	20.3	1.4752	0.0000	SURCHARGED	009	MH-0111-S	18.1	1.046	1.003	0.2562	
30 minute winter	MH-0111-S	36	0.972	0.472	31.8	1.3526	0.0000	SURCHARGED	010	MH-0112-S	30.9	1.000	0.371	1.2446	
30 minute winter	MH-0112-S	36	0.972	0.622	35.4	25.5177	0.0000	SURCHARGED	011	MH-0113-S	11.8	0.598	0.125	0.6850	
30 minute winter	MH-0113-S	37	0.972	0.692	24.1	4.6827	0.0000	SURCHARGED	013	MH-0106-S	10.8	0.656	0.119	0.6348	
30 minute winter	MH-0114-S	37	0.972	0.592	12.6	4.4364	0.0000	SURCHARGED	012	MH-0113-S	8.0	0.421	0.106	1.5089	
30 minute winter	MH-0115-S	37	0.972	0.812	7.7	0.9180	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	3.9				
30 minute winter	DITCH	37	0.116	0.046	3.9	0.0000	0.0000	OK							
30 minute winter	DUMMY	37	0.197	0.047	3.9	0.0528	0.0000	OK	017	DITCH	3.9	0.564	0.051	0.1159	47.5

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Results for 100 year 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.63%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	IC-0101-S	35	1.146	0.046	3.7	0.1521	0.0000	OK	001	IC-0102-S	3.7	0.682	0.202	0.0765	
60 minute summer	IC-0102-S	35	1.008	0.058	5.6	0.1751	0.0000	OK	002	IC-0103-S	5.5	0.782	0.308	0.1535	
60 minute summer	IC-0103-S	64	0.986	0.186	7.7	0.0543	0.0000	SURCHARGED	016	MH-0111-S	7.8	0.956	0.432	0.3560	
60 minute summer	MH-0106-S	64	0.986	0.766	8.7	0.8661	0.0000	SURCHARGED	014	MH-0115-S	5.3	0.331	0.072	0.9471	
60 minute summer	IC-0107-S	36	1.272	0.072	7.8	0.4840	0.0000	OK	006	IC-0108-S	7.7	0.833	0.436	0.1398	
60 minute summer	IC-0108-S	36	1.135	0.085	11.4	0.1604	0.0000	OK	007	IC-0109-S	11.4	1.009	0.542	0.1223	
60 minute summer	IC-0109-S	40	1.005	0.105	15.1	0.2344	0.0000	OK	008	IC-0110-S	15.5	1.041	0.788	0.3167	
60 minute summer	IC-0110-S	63	0.988	0.338	17.7	1.4984	0.0000	SURCHARGED	009	MH-0111-S	16.0	1.029	0.889	0.2562	
60 minute summer	MH-0111-S	64	0.986	0.486	27.4	1.3928	0.0000	SURCHARGED	010	MH-0112-S	24.8	0.847	0.298	1.2446	
60 minute summer	MH-0112-S	64	0.986	0.636	28.8	26.1382	0.0000	SURCHARGED	011	MH-0113-S	9.0	0.548	0.095	0.6850	
60 minute summer	MH-0113-S	64	0.986	0.706	15.1	4.7764	0.0000	SURCHARGED	013	MH-0106-S	8.7	0.560	0.096	0.6348	
60 minute summer	MH-0114-S	64	0.986	0.606	8.7	4.5396	0.0000	SURCHARGED	012	MH-0113-S	6.1	0.347	0.081	1.5089	
60 minute summer	MH-0115-S	64	0.985	0.825	5.3	0.9336	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	3.9				
60 minute summer	DITCH	64	0.116	0.046	3.9	0.0000	0.0000	OK							
60 minute summer	DUMMY	64	0.197	0.047	3.9	0.0530	0.0000	OK	017	DITCH	3.9	0.565	0.051	0.1165	53.1

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Results for 100 year 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.65%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	IC-0101-S	35	1.144	0.044	3.4	0.1444	0.0000	OK	001	IC-0102-S	3.4	0.664	0.183	0.1119	
60 minute winter	IC-0102-S	63	1.069	0.119	5.1	0.3571	0.0000	OK	002	IC-0103-S	5.1	0.769	0.282	0.2392	
60 minute winter	IC-0103-S	63	1.069	0.269	7.0	0.0783	0.0000	SURCHARGED	016	MH-0111-S	7.0	0.925	0.386	0.3560	
60 minute winter	MH-0106-S	63	1.068	0.848	10.0	0.9592	0.0000	SURCHARGED	014	MH-0115-S	6.1	0.355	0.082	0.9471	
60 minute winter	IC-0107-S	36	1.268	0.068	7.0	0.4551	0.0000	OK	006	IC-0108-S	7.0	0.820	0.395	0.1285	
60 minute winter	IC-0108-S	35	1.129	0.079	10.4	0.1495	0.0000	OK	007	IC-0109-S	10.3	0.997	0.489	0.1284	
60 minute winter	IC-0109-S	61	1.073	0.173	13.7	0.3839	0.0000	SURCHARGED	008	IC-0110-S	13.9	1.034	0.708	0.3617	
60 minute winter	IC-0110-S	62	1.070	0.420	15.9	1.8637	0.0000	SURCHARGED	009	MH-0111-S	14.6	1.004	0.809	0.2562	
60 minute winter	MH-0111-S	64	1.069	0.569	24.4	1.6290	0.0000	SURCHARGED	010	MH-0112-S	20.8	0.834	0.250	1.2446	
60 minute winter	MH-0112-S	64	1.069	0.719	24.1	29.8338	0.0000	SURCHARGED	011	MH-0113-S	9.5	0.564	0.101	0.6850	
60 minute winter	MH-0113-S	63	1.068	0.788	16.1	5.3338	0.0000	SURCHARGED	013	MH-0106-S	10.0	0.573	0.110	0.6348	
60 minute winter	MH-0114-S	63	1.068	0.688	7.8	5.1563	0.0000	SURCHARGED	012	MH-0113-S	7.2	0.369	0.095	1.5089	
60 minute winter	MH-0115-S	63	1.068	0.908	6.1	1.0268	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.1				
60 minute winter	DITCH	64	0.117	0.047	4.1	0.0000	0.0000	OK							
60 minute winter	DUMMY	64	0.198	0.048	4.1	0.0542	0.0000	OK	017	DITCH	4.1	0.572	0.053	0.1204	56.1

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Results for 100 year 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.76%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	IC-0101-S	66	1.140	0.040	2.9	0.1335	0.0000	OK	001	IC-0102-S	2.9	0.644	0.158	0.1069	
120 minute summer	IC-0102-S	108	1.064	0.114	4.3	0.3415	0.0000	OK	002	IC-0103-S	4.3	0.735	0.239	0.2344	
120 minute summer	IC-0103-S	108	1.064	0.264	6.0	0.0768	0.0000	SURCHARGED	016	MH-0111-S	6.0	0.844	0.331	0.3560	
120 minute summer	MH-0106-S	108	1.063	0.843	5.0	0.9534	0.0000	SURCHARGED	014	MH-0115-S	4.2	0.323	0.057	0.9471	
120 minute summer	IC-0107-S	66	1.261	0.061	5.9	0.4113	0.0000	OK	006	IC-0108-S	5.9	0.788	0.333	0.1125	
120 minute summer	IC-0108-S	66	1.121	0.071	8.8	0.1348	0.0000	OK	007	IC-0109-S	8.8	0.963	0.416	0.1090	
120 minute summer	IC-0109-S	104	1.066	0.166	11.7	0.3702	0.0000	SURCHARGED	008	IC-0110-S	11.7	1.026	0.596	0.3617	
120 minute summer	IC-0110-S	108	1.065	0.415	13.4	1.8400	0.0000	SURCHARGED	009	MH-0111-S	11.7	0.901	0.646	0.2562	
120 minute summer	MH-0111-S	108	1.063	0.563	19.8	1.6142	0.0000	SURCHARGED	010	MH-0112-S	17.8	0.698	0.214	1.2446	
120 minute summer	MH-0112-S	108	1.063	0.713	20.5	29.5991	0.0000	SURCHARGED	011	MH-0113-S	6.9	0.503	0.074	0.6850	
120 minute summer	MH-0113-S	108	1.063	0.783	12.2	5.2990	0.0000	SURCHARGED	013	MH-0106-S	5.0	0.513	0.055	0.6348	
120 minute summer	MH-0114-S	108	1.063	0.683	6.7	5.1178	0.0000	SURCHARGED	012	MH-0113-S	4.6	0.307	0.061	1.5089	
120 minute summer	MH-0115-S	108	1.063	0.903	4.2	1.0209	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.1				
120 minute summer	DITCH	108	0.117	0.047	4.1	0.0000	0.0000	OK							
120 minute summer	DUMMY	108	0.198	0.048	4.1	0.0542	0.0000	OK	017	DITCH	4.1	0.572	0.053	0.1202	66.9

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Results for 100 year 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.80%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	IC-0101-S	118	1.165	0.065	2.3	0.2164	0.0000	OK	001	IC-0102-S	2.3	0.607	0.125	0.1752	
120 minute winter	IC-0102-S	118	1.165	0.215	3.5	0.6455	0.0000	SURCHARGED	002	IC-0103-S	3.5	0.701	0.195	0.2583	
120 minute winter	IC-0103-S	118	1.165	0.365	4.8	0.1063	0.0000	SURCHARGED	016	MH-0111-S	4.8	0.803	0.265	0.3560	
120 minute winter	MH-0106-S	118	1.164	0.944	7.4	1.0681	0.0000	SURCHARGED	014	MH-0115-S	4.5	0.324	0.061	0.9471	
120 minute winter	IC-0107-S	66	1.254	0.054	4.8	0.3659	0.0000	OK	006	IC-0108-S	4.8	0.757	0.271	0.1244	
120 minute winter	IC-0108-S	116	1.169	0.119	7.1	0.2246	0.0000	OK	007	IC-0109-S	7.1	0.920	0.336	0.1731	
120 minute winter	IC-0109-S	116	1.168	0.268	9.4	0.5964	0.0000	SURCHARGED	008	IC-0110-S	9.4	0.981	0.479	0.3617	
120 minute winter	IC-0110-S	118	1.166	0.516	10.7	2.2900	0.0000	SURCHARGED	009	MH-0111-S	9.5	0.855	0.528	0.2562	
120 minute winter	MH-0111-S	118	1.165	0.665	16.2	1.9046	0.0000	SURCHARGED	010	MH-0112-S	14.7	0.690	0.177	1.2446	
120 minute winter	MH-0112-S	118	1.165	0.815	17.0	34.1444	0.0000	SURCHARGED	011	MH-0113-S	6.0	0.522	0.064	0.6850	
120 minute winter	MH-0113-S	118	1.165	0.885	9.8	5.9852	0.0000	SURCHARGED	013	MH-0106-S	7.4	0.524	0.082	0.6348	
120 minute winter	MH-0114-S	118	1.165	0.785	5.4	5.8776	0.0000	SURCHARGED	012	MH-0113-S	2.9	0.325	0.038	1.5089	
120 minute winter	MH-0115-S	118	1.164	1.004	4.5	1.1356	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.3				
120 minute winter	DITCH	118	0.118	0.048	4.3	0.0000	0.0000	OK							
120 minute winter	DUMMY	118	0.199	0.049	4.3	0.0555	0.0000	OK	017	DITCH	4.3	0.580	0.056	0.1246	70.8

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Results for 100 year 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.82%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	IC-0101-S	96	1.136	0.036	2.3	0.1182	0.0000	OK	001	IC-0102-S	2.3	0.605	0.124	0.1210	
180 minute summer	IC-0102-S	144	1.081	0.131	3.4	0.3936	0.0000	OK	002	IC-0103-S	3.3	0.691	0.186	0.2491	
180 minute summer	IC-0103-S	144	1.081	0.281	4.6	0.0818	0.0000	SURCHARGED	016	MH-0111-S	4.6	0.784	0.255	0.3560	
180 minute summer	MH-0106-S	144	1.080	0.860	6.1	0.9731	0.0000	SURCHARGED	014	MH-0115-S	4.1	0.299	0.055	0.9471	
180 minute summer	IC-0107-S	96	1.253	0.053	4.7	0.3601	0.0000	OK	006	IC-0108-S	4.7	0.750	0.263	0.0936	
180 minute summer	IC-0108-S	96	1.112	0.062	7.0	0.1166	0.0000	OK	007	IC-0109-S	6.9	0.914	0.328	0.1121	
180 minute summer	IC-0109-S	140	1.084	0.184	9.2	0.4081	0.0000	SURCHARGED	008	IC-0110-S	9.2	0.978	0.468	0.3617	
180 minute summer	IC-0110-S	144	1.082	0.432	10.5	1.9167	0.0000	SURCHARGED	009	MH-0111-S	9.3	0.827	0.515	0.2562	
180 minute summer	MH-0111-S	144	1.081	0.581	15.6	1.6639	0.0000	SURCHARGED	010	MH-0112-S	13.9	0.642	0.167	1.2446	
180 minute summer	MH-0112-S	144	1.081	0.731	16.0	30.3779	0.0000	SURCHARGED	011	MH-0113-S	5.7	0.494	0.060	0.6850	
180 minute summer	MH-0113-S	144	1.081	0.801	9.5	5.4166	0.0000	SURCHARGED	013	MH-0106-S	6.1	0.486	0.068	0.6348	
180 minute summer	MH-0114-S	144	1.081	0.701	5.3	5.2480	0.0000	SURCHARGED	012	MH-0113-S	2.9	0.265	0.039	1.5089	
180 minute summer	MH-0115-S	144	1.080	0.920	4.1	1.0406	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.1				
180 minute summer	DITCH	144	0.117	0.047	4.1	0.0000	0.0000	OK							
180 minute summer	DUMMY	144	0.198	0.048	4.1	0.0544	0.0000	OK	017	DITCH	4.1	0.573	0.054	0.1210	77.5

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Results for 100 year 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 99.85%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	IC-0101-S	152	1.192	0.092	1.8	0.3049	0.0000	OK	001	IC-0102-S	1.8	0.567	0.098	0.2030	
180 minute winter	IC-0102-S	152	1.192	0.242	2.7	0.7251	0.0000	SURCHARGED	002	IC-0103-S	2.7	0.655	0.150	0.2583	
180 minute winter	IC-0103-S	152	1.192	0.392	3.7	0.1140	0.0000	SURCHARGED	016	MH-0111-S	3.7	0.735	0.204	0.3560	
180 minute winter	MH-0106-S	152	1.191	0.971	4.7	1.0980	0.0000	SURCHARGED	014	MH-0115-S	4.3	0.276	0.059	0.9471	
180 minute winter	IC-0107-S	100	1.247	0.047	3.7	0.3173	0.0000	OK	006	IC-0108-S	3.7	0.717	0.209	0.1442	
180 minute winter	IC-0108-S	148	1.195	0.145	5.5	0.2752	0.0000	OK	007	IC-0109-S	5.5	0.865	0.260	0.1865	
180 minute winter	IC-0109-S	148	1.195	0.295	7.3	0.6554	0.0000	SURCHARGED	008	IC-0110-S	7.3	0.905	0.372	0.3617	
180 minute winter	IC-0110-S	152	1.193	0.543	8.3	2.4074	0.0000	SURCHARGED	009	MH-0111-S	7.0	0.789	0.391	0.2562	
180 minute winter	MH-0111-S	152	1.191	0.691	12.5	1.9805	0.0000	SURCHARGED	010	MH-0112-S	11.5	0.640	0.138	1.2446	
180 minute winter	MH-0112-S	152	1.191	0.841	13.3	35.3300	0.0000	SURCHARGED	011	MH-0113-S	6.1	0.503	0.064	0.6850	
180 minute winter	MH-0113-S	152	1.191	0.911	8.8	6.1642	0.0000	SURCHARGED	013	MH-0106-S	4.7	0.507	0.052	0.6348	
180 minute winter	MH-0114-S	152	1.191	0.811	4.2	6.0757	0.0000	SURCHARGED	012	MH-0113-S	3.0	0.294	0.040	1.5089	
180 minute winter	MH-0115-S	152	1.191	1.031	4.3	1.1655	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.3				
180 minute winter	DITCH	152	0.118	0.048	4.3	0.0000	0.0000	OK							
180 minute winter	DUMMY	152	0.199	0.049	4.3	0.0559	0.0000	OK	017	DITCH	4.3	0.582	0.057	0.1257	82.8

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Results for 100 year 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.85%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	IC-0101-S	128	1.133	0.033	1.9	0.1080	0.0000	OK	001	IC-0102-S	1.9	0.569	0.104	0.1226	
240 minute summer	IC-0102-S	176	1.084	0.134	2.9	0.4023	0.0000	OK	002	IC-0103-S	2.9	0.666	0.162	0.2511	
240 minute summer	IC-0103-S	176	1.084	0.284	4.0	0.0827	0.0000	SURCHARGED	016	MH-0111-S	4.0	0.749	0.221	0.3560	
240 minute summer	MH-0106-S	176	1.083	0.863	4.9	0.9763	0.0000	SURCHARGED	014	MH-0115-S	4.1	0.245	0.056	0.9471	
240 minute summer	IC-0107-S	128	1.249	0.049	4.0	0.3311	0.0000	OK	006	IC-0108-S	4.0	0.727	0.226	0.0828	
240 minute summer	IC-0108-S	128	1.106	0.056	5.9	0.1061	0.0000	OK	007	IC-0109-S	5.9	0.881	0.279	0.1112	
240 minute summer	IC-0109-S	176	1.086	0.186	7.8	0.4144	0.0000	SURCHARGED	008	IC-0110-S	7.8	0.927	0.398	0.3617	
240 minute summer	IC-0110-S	176	1.085	0.435	8.9	1.9297	0.0000	SURCHARGED	009	MH-0111-S	7.6	0.803	0.421	0.2562	
240 minute summer	MH-0111-S	176	1.084	0.584	13.2	1.6722	0.0000	SURCHARGED	010	MH-0112-S	12.1	0.637	0.145	1.2446	
240 minute summer	MH-0112-S	176	1.084	0.734	14.0	30.5071	0.0000	SURCHARGED	011	MH-0113-S	6.8	0.484	0.072	0.6850	
240 minute summer	MH-0113-S	176	1.083	0.803	10.0	5.4361	0.0000	SURCHARGED	013	MH-0106-S	4.9	0.486	0.054	0.6348	
240 minute summer	MH-0114-S	176	1.083	0.703	4.4	5.2696	0.0000	SURCHARGED	012	MH-0113-S	3.2	0.267	0.043	1.5089	
240 minute summer	MH-0115-S	176	1.083	0.923	4.1	1.0439	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.1				
240 minute summer	DITCH	176	0.117	0.047	4.1	0.0000	0.0000	OK							
240 minute summer	DUMMY	176	0.198	0.048	4.1	0.0544	0.0000	OK	017	DITCH	4.1	0.574	0.054	0.1211	87.6

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Results for 100 year 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.87%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	IC-0101-S	188	1.185	0.085	1.5	0.2820	0.0000	OK	001	IC-0102-S	1.5	0.542	0.082	0.1959	
240 minute winter	IC-0102-S	188	1.185	0.235	2.2	0.7043	0.0000	SURCHARGED	002	IC-0103-S	2.2	0.611	0.123	0.2583	
240 minute winter	IC-0103-S	188	1.185	0.385	3.1	0.1120	0.0000	SURCHARGED	016	MH-0111-S	3.0	0.698	0.168	0.3560	
240 minute winter	MH-0106-S	188	1.184	0.964	6.4	1.0900	0.0000	SURCHARGED	014	MH-0115-S	4.3	0.269	0.058	0.9471	
240 minute winter	IC-0107-S	128	1.243	0.043	3.1	0.2886	0.0000	OK	006	IC-0108-S	3.1	0.683	0.175	0.1396	
240 minute winter	IC-0108-S	188	1.188	0.138	4.6	0.2618	0.0000	OK	007	IC-0109-S	4.6	0.827	0.218	0.1840	
240 minute winter	IC-0109-S	188	1.188	0.288	6.1	0.6399	0.0000	SURCHARGED	008	IC-0110-S	6.1	0.864	0.311	0.3617	
240 minute winter	IC-0110-S	188	1.186	0.536	7.0	2.3775	0.0000	SURCHARGED	009	MH-0111-S	5.9	0.749	0.329	0.2562	
240 minute winter	MH-0111-S	188	1.184	0.684	10.4	1.9604	0.0000	SURCHARGED	010	MH-0112-S	9.6	0.614	0.115	1.2446	
240 minute winter	MH-0112-S	188	1.184	0.834	11.1	35.0121	0.0000	SURCHARGED	011	MH-0113-S	3.9	0.500	0.041	0.6850	
240 minute winter	MH-0113-S	188	1.184	0.904	6.2	6.1161	0.0000	SURCHARGED	013	MH-0106-S	6.4	0.490	0.071	0.6348	
240 minute winter	MH-0114-S	188	1.184	0.804	3.4	6.0224	0.0000	SURCHARGED	012	MH-0113-S	2.1	0.261	0.028	1.5089	
240 minute winter	MH-0115-S	188	1.183	1.023	4.3	1.1575	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.3				
240 minute winter	DITCH	192	0.118	0.048	4.3	0.0000	0.0000	OK							
240 minute winter	DUMMY	188	0.199	0.049	4.3	0.0558	0.0000	OK	017	DITCH	4.3	0.582	0.057	0.1254	93.2

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Results for 100 year 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.92%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	IC-0101-S	192	1.128	0.028	1.4	0.0929	0.0000	OK	001	IC-0102-S	1.4	0.527	0.076	0.0915	
360 minute summer	IC-0102-S	248	1.048	0.098	2.1	0.2948	0.0000	OK	002	IC-0103-S	2.1	0.610	0.117	0.2189	
360 minute summer	IC-0103-S	248	1.048	0.248	2.9	0.0722	0.0000	SURCHARGED	016	MH-0111-S	2.9	0.709	0.160	0.3560	
360 minute summer	MH-0106-S	248	1.047	0.827	4.1	0.9358	0.0000	SURCHARGED	014	MH-0115-S	4.0	0.253	0.054	0.9471	
360 minute summer	IC-0107-S	192	1.241	0.041	2.9	0.2787	0.0000	OK	006	IC-0108-S	2.9	0.672	0.164	0.0650	
360 minute summer	IC-0108-S	192	1.097	0.047	4.3	0.0888	0.0000	OK	007	IC-0109-S	4.3	0.813	0.204	0.1037	
360 minute summer	IC-0109-S	248	1.050	0.150	5.7	0.3346	0.0000	SURCHARGED	008	IC-0110-S	5.7	0.883	0.291	0.3616	
360 minute summer	IC-0110-S	248	1.049	0.399	6.5	1.7708	0.0000	SURCHARGED	009	MH-0111-S	6.3	0.745	0.348	0.2562	
360 minute summer	MH-0111-S	248	1.048	0.548	10.5	1.5696	0.0000	SURCHARGED	010	MH-0112-S	9.2	0.627	0.111	1.2446	
360 minute summer	MH-0112-S	248	1.048	0.698	10.6	28.9023	0.0000	SURCHARGED	011	MH-0113-S	4.5	0.471	0.048	0.6850	
360 minute summer	MH-0113-S	248	1.048	0.768	8.3	5.1938	0.0000	SURCHARGED	013	MH-0106-S	4.1	0.468	0.045	0.6348	
360 minute summer	MH-0114-S	248	1.048	0.668	3.3	5.0013	0.0000	SURCHARGED	012	MH-0113-S	2.6	0.206	0.034	1.5089	
360 minute summer	MH-0115-S	248	1.047	0.887	4.0	1.0034	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.0				
360 minute summer	DITCH	248	0.116	0.046	4.0	0.0000	0.0000	OK							
360 minute summer	DUMMY	248	0.198	0.048	4.0	0.0539	0.0000	OK	017	DITCH	4.0	0.571	0.053	0.1194	102.9

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Results for 100 year 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.90%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	IC-0101-S	272	1.139	0.039	1.1	0.1303	0.0000	OK	001	IC-0102-S	1.1	0.497	0.060	0.1494	
360 minute winter	IC-0102-S	272	1.139	0.189	1.6	0.5674	0.0000	SURCHARGED	002	IC-0103-S	1.6	0.562	0.089	0.2583	
360 minute winter	IC-0103-S	272	1.139	0.339	2.2	0.0987	0.0000	SURCHARGED	016	MH-0111-S	2.2	0.649	0.120	0.3560	
360 minute winter	MH-0106-S	272	1.138	0.918	4.7	1.0385	0.0000	SURCHARGED	014	MH-0115-S	4.2	0.228	0.057	0.9471	
360 minute winter	IC-0107-S	192	1.237	0.037	2.3	0.2471	0.0000	OK	006	IC-0108-S	2.3	0.634	0.130	0.0971	
360 minute winter	IC-0108-S	264	1.142	0.092	3.4	0.1740	0.0000	OK	007	IC-0109-S	3.4	0.766	0.161	0.1538	
360 minute winter	IC-0109-S	264	1.142	0.242	4.5	0.5371	0.0000	SURCHARGED	008	IC-0110-S	4.5	0.804	0.230	0.3617	
360 minute winter	IC-0110-S	272	1.140	0.490	5.1	2.1733	0.0000	SURCHARGED	009	MH-0111-S	4.5	0.708	0.251	0.2562	
360 minute winter	MH-0111-S	272	1.139	0.639	7.6	1.8298	0.0000	SURCHARGED	010	MH-0112-S	6.8	0.596	0.081	1.2446	
360 minute winter	MH-0112-S	272	1.139	0.789	7.9	32.9717	0.0000	SURCHARGED	011	MH-0113-S	4.7	0.472	0.050	0.6850	
360 minute winter	MH-0113-S	272	1.138	0.858	8.0	5.8081	0.0000	SURCHARGED	013	MH-0106-S	4.7	0.480	0.052	0.6348	
360 minute winter	MH-0114-S	272	1.138	0.758	2.5	5.6814	0.0000	SURCHARGED	012	MH-0113-S	2.3	0.235	0.031	1.5089	
360 minute winter	MH-0115-S	272	1.138	0.978	4.2	1.1060	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.2				
360 minute winter	DITCH	272	0.117	0.047	4.2	0.0000	0.0000	OK							
360 minute winter	DUMMY	272	0.199	0.049	4.2	0.0552	0.0000	OK	017	DITCH	4.2	0.578	0.055	0.1235	110.2

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Results for 100 year 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	IC-0101-S	248	1.126	0.026	1.2	0.0859	0.0000	OK	001	IC-0102-S	1.2	0.504	0.065	0.0432	
480 minute summer	IC-0102-S	320	1.002	0.052	1.8	0.1546	0.0000	OK	002	IC-0103-S	1.8	0.580	0.099	0.1685	
480 minute summer	IC-0103-S	320	1.002	0.202	2.5	0.0586	0.0000	SURCHARGED	016	MH-0111-S	2.5	0.666	0.136	0.3560	
480 minute summer	MH-0106-S	320	1.001	0.781	5.5	0.8832	0.0000	SURCHARGED	014	MH-0115-S	3.9	0.190	0.053	0.9471	
480 minute summer	IC-0107-S	248	1.237	0.037	2.4	0.2517	0.0000	OK	006	IC-0108-S	2.4	0.637	0.135	0.0565	
480 minute summer	IC-0108-S	248	1.092	0.042	3.6	0.0803	0.0000	OK	007	IC-0109-S	3.6	0.774	0.169	0.0779	
480 minute summer	IC-0109-S	320	1.003	0.103	4.8	0.2297	0.0000	OK	008	IC-0110-S	4.8	0.831	0.243	0.3137	
480 minute summer	IC-0110-S	320	1.002	0.352	5.5	1.5635	0.0000	SURCHARGED	009	MH-0111-S	4.9	0.705	0.274	0.2562	
480 minute summer	MH-0111-S	320	1.001	0.501	8.2	1.4361	0.0000	SURCHARGED	010	MH-0112-S	7.2	0.596	0.087	1.2446	
480 minute summer	MH-0112-S	320	1.001	0.651	8.4	26.8154	0.0000	SURCHARGED	011	MH-0113-S	5.0	0.471	0.053	0.6850	
480 minute summer	MH-0113-S	320	1.001	0.721	7.8	4.8787	0.0000	SURCHARGED	013	MH-0106-S	5.5	0.468	0.061	0.6348	
480 minute summer	MH-0114-S	320	1.001	0.621	2.7	4.6524	0.0000	SURCHARGED	012	MH-0113-S	1.9	0.186	0.025	1.5089	
480 minute summer	MH-0115-S	320	1.001	0.841	3.9	0.9507	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	3.9				
480 minute summer	DITCH	320	0.116	0.046	3.9	0.0000	0.0000	OK							
480 minute summer	DUMMY	320	0.197	0.047	3.9	0.0533	0.0000	OK	017	DITCH	3.9	0.567	0.051	0.1173	109.8

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Results for 100 year 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.97%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	IC-0101-S	248	1.123	0.023	0.9	0.0750	0.0000	OK	001	IC-0102-S	0.9	0.469	0.049	0.1153	
480 minute winter	IC-0102-S	344	1.074	0.124	1.3	0.3731	0.0000	OK	002	IC-0103-S	1.3	0.530	0.072	0.2438	
480 minute winter	IC-0103-S	344	1.074	0.274	1.8	0.0798	0.0000	SURCHARGED	016	MH-0111-S	1.8	0.616	0.099	0.3560	
480 minute winter	MH-0106-S	344	1.073	0.853	4.1	0.9653	0.0000	SURCHARGED	014	MH-0115-S	4.1	0.215	0.055	0.9471	
480 minute winter	IC-0107-S	256	1.232	0.032	1.8	0.2176	0.0000	OK	006	IC-0108-S	1.8	0.592	0.102	0.0458	
480 minute winter	IC-0108-S	248	1.086	0.036	2.7	0.0691	0.0000	OK	007	IC-0109-S	2.7	0.718	0.128	0.1058	
480 minute winter	IC-0109-S	344	1.077	0.177	3.6	0.3929	0.0000	SURCHARGED	008	IC-0110-S	3.6	0.762	0.184	0.3617	
480 minute winter	IC-0110-S	344	1.075	0.425	4.1	1.8866	0.0000	SURCHARGED	009	MH-0111-S	3.8	0.657	0.209	0.2562	
480 minute winter	MH-0111-S	344	1.074	0.574	6.3	1.6443	0.0000	SURCHARGED	010	MH-0112-S	5.9	0.588	0.071	1.2446	
480 minute winter	MH-0112-S	344	1.074	0.724	6.8	30.0712	0.0000	SURCHARGED	011	MH-0113-S	4.6	0.469	0.049	0.6850	
480 minute winter	MH-0113-S	344	1.074	0.794	6.8	5.3702	0.0000	SURCHARGED	013	MH-0106-S	4.1	0.464	0.045	0.6348	
480 minute winter	MH-0114-S	344	1.074	0.694	2.1	5.1966	0.0000	SURCHARGED	012	MH-0113-S	1.6	0.237	0.021	1.5089	
480 minute winter	MH-0115-S	344	1.073	0.913	4.1	1.0329	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.1				
480 minute winter	DITCH	344	0.117	0.047	4.1	0.0000	0.0000	OK							
480 minute winter	DUMMY	344	0.198	0.048	4.1	0.0543	0.0000	OK	017	DITCH	4.1	0.573	0.054	0.1207	123.6

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Results for 100 year 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	IC-0101-S	315	1.123	0.023	0.9	0.0750	0.0000	OK	001	IC-0102-S	0.9	0.456	0.049	0.0278	
600 minute summer	IC-0102-S	315	0.978	0.028	1.4	0.0849	0.0000	OK	002	IC-0103-S	1.4	0.546	0.078	0.1386	
600 minute summer	IC-0103-S	390	0.964	0.164	1.9	0.0476	0.0000	SURCHARGED	016	MH-0111-S	1.9	0.625	0.105	0.3560	
600 minute summer	MH-0106-S	390	0.963	0.743	5.8	0.8403	0.0000	SURCHARGED	014	MH-0115-S	3.9	0.180	0.053	0.9471	
600 minute summer	IC-0107-S	315	1.234	0.034	2.0	0.2302	0.0000	OK	006	IC-0108-S	2.0	0.616	0.113	0.0489	
600 minute summer	IC-0108-S	315	1.088	0.038	2.9	0.0718	0.0000	OK	007	IC-0109-S	2.9	0.736	0.137	0.0474	
600 minute summer	IC-0109-S	390	0.965	0.065	3.8	0.1454	0.0000	OK	008	IC-0110-S	3.8	0.795	0.194	0.2565	
600 minute summer	IC-0110-S	390	0.965	0.315	4.3	1.3954	0.0000	SURCHARGED	009	MH-0111-S	4.2	0.667	0.233	0.2562	
600 minute summer	MH-0111-S	390	0.963	0.463	7.0	1.3275	0.0000	SURCHARGED	010	MH-0112-S	6.3	0.592	0.075	1.2446	
600 minute summer	MH-0112-S	390	0.963	0.613	7.2	25.1160	0.0000	SURCHARGED	011	MH-0113-S	4.7	0.486	0.050	0.6850	
600 minute summer	MH-0113-S	390	0.963	0.683	7.4	4.6221	0.0000	SURCHARGED	013	MH-0106-S	5.8	0.464	0.064	0.6348	
600 minute summer	MH-0114-S	390	0.963	0.583	2.2	4.3683	0.0000	SURCHARGED	012	MH-0113-S	2.0	0.205	0.026	1.5089	
600 minute summer	MH-0115-S	390	0.963	0.803	3.9	0.9079	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	3.8				
600 minute summer	DITCH	390	0.115	0.045	3.8	0.0000	0.0000	OK							
600 minute summer	DUMMY	390	0.197	0.047	3.8	0.0527	0.0000	OK	017	DITCH	3.8	0.563	0.050	0.1154	114.9

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Results for 100 year 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	IC-0101-S	300	1.120	0.020	0.7	0.0665	0.0000	OK	001	IC-0102-S	0.7	0.437	0.038	0.0497	
600 minute winter	IC-0102-S	420	1.008	0.058	1.1	0.1740	0.0000	OK	002	IC-0103-S	1.1	0.507	0.061	0.1753	
600 minute winter	IC-0103-S	420	1.008	0.208	1.5	0.0605	0.0000	SURCHARGED	016	MH-0111-S	1.5	0.592	0.083	0.3560	
600 minute winter	MH-0106-S	420	1.007	0.787	3.9	0.8904	0.0000	SURCHARGED	014	MH-0115-S	3.9	0.249	0.053	0.9471	
600 minute winter	IC-0107-S	315	1.230	0.030	1.5	0.1988	0.0000	OK	006	IC-0108-S	1.5	0.568	0.085	0.0397	
600 minute winter	IC-0108-S	315	1.083	0.033	2.2	0.0621	0.0000	OK	007	IC-0109-S	2.2	0.682	0.104	0.0818	
600 minute winter	IC-0109-S	420	1.010	0.110	2.9	0.2441	0.0000	OK	008	IC-0110-S	2.9	0.730	0.148	0.3227	
600 minute winter	IC-0110-S	420	1.009	0.359	3.3	1.5921	0.0000	SURCHARGED	009	MH-0111-S	3.2	0.641	0.175	0.2562	
600 minute winter	MH-0111-S	420	1.008	0.508	5.2	1.4546	0.0000	SURCHARGED	010	MH-0112-S	4.7	0.561	0.056	1.2446	
600 minute winter	MH-0112-S	420	1.008	0.658	5.4	27.1040	0.0000	SURCHARGED	011	MH-0113-S	3.0	0.446	0.032	0.6850	
600 minute winter	MH-0113-S	420	1.007	0.727	4.2	4.9223	0.0000	SURCHARGED	013	MH-0106-S	3.9	0.464	0.044	0.6348	
600 minute winter	MH-0114-S	420	1.008	0.628	1.7	4.7007	0.0000	SURCHARGED	012	MH-0113-S	1.2	0.228	0.015	1.5089	
600 minute winter	MH-0115-S	420	1.007	0.847	3.9	0.9580	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	3.9				
600 minute winter	DITCH	420	0.116	0.046	3.9	0.0000	0.0000	OK							
600 minute winter	DUMMY	420	0.197	0.047	3.9	0.0533	0.0000	OK	017	DITCH	3.9	0.567	0.052	0.1176	126.8

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Results for 100 year 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	IC-0101-S	375	1.121	0.021	0.8	0.0708	0.0000	OK	001	IC-0102-S	0.8	0.447	0.044	0.0252	
720 minute summer	IC-0102-S	375	0.976	0.026	1.2	0.0788	0.0000	OK	002	IC-0103-S	1.2	0.513	0.067	0.1164	
720 minute summer	IC-0103-S	450	0.917	0.117	1.7	0.0340	0.0000	OK	016	MH-0111-S	1.7	0.603	0.094	0.3269	
720 minute summer	MH-0106-S	450	0.916	0.696	4.0	0.7874	0.0000	SURCHARGED	014	MH-0115-S	3.7	0.176	0.050	0.9471	
720 minute summer	IC-0107-S	375	1.231	0.031	1.7	0.2117	0.0000	OK	006	IC-0108-S	1.7	0.587	0.096	0.0436	
720 minute summer	IC-0108-S	375	1.085	0.035	2.5	0.0664	0.0000	OK	007	IC-0109-S	2.5	0.706	0.118	0.0378	
720 minute summer	IC-0109-S	375	0.942	0.042	3.3	0.0925	0.0000	OK	008	IC-0110-S	3.3	0.761	0.168	0.2174	
720 minute summer	IC-0110-S	450	0.918	0.268	3.8	1.1879	0.0000	SURCHARGED	009	MH-0111-S	3.7	0.641	0.206	0.2562	
720 minute summer	MH-0111-S	450	0.917	0.417	6.2	1.1936	0.0000	SURCHARGED	010	MH-0112-S	5.6	0.592	0.067	1.2446	
720 minute summer	MH-0112-S	450	0.917	0.567	6.4	23.0220	0.0000	SURCHARGED	011	MH-0113-S	2.8	0.449	0.030	0.6850	
720 minute summer	MH-0113-S	450	0.916	0.636	4.5	4.3059	0.0000	SURCHARGED	013	MH-0106-S	4.0	0.464	0.045	0.6348	
720 minute summer	MH-0114-S	450	0.916	0.536	1.9	4.0183	0.0000	SURCHARGED	012	MH-0113-S	1.3	0.212	0.017	1.5089	
720 minute summer	MH-0115-S	450	0.916	0.756	3.7	0.8550	0.0000	OK	Hydro-Brake®	DUMMY	3.7				
720 minute summer	DITCH	450	0.115	0.045	3.7	0.0000	0.0000	OK							
720 minute summer	DUMMY	450	0.196	0.046	3.7	0.0519	0.0000	OK	017	DITCH	3.7	0.558	0.049	0.1131	118.4

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Results for 100 year 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	IC-0101-S	345	1.119	0.019	0.6	0.0617	0.0000	OK	001	IC-0102-S	0.6	0.410	0.033	0.0206	
720 minute winter	IC-0102-S	360	0.973	0.023	0.9	0.0685	0.0000	OK	002	IC-0103-S	0.9	0.482	0.050	0.1375	
720 minute winter	IC-0103-S	480	0.952	0.152	1.3	0.0442	0.0000	SURCHARGED	016	MH-0111-S	1.3	0.577	0.072	0.3560	
720 minute winter	MH-0106-S	480	0.951	0.731	3.8	0.8268	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.174	0.051	0.9471	
720 minute winter	IC-0107-S	375	1.228	0.028	1.3	0.1852	0.0000	OK	006	IC-0108-S	1.3	0.547	0.073	0.0358	
720 minute winter	IC-0108-S	375	1.080	0.030	1.9	0.0576	0.0000	OK	007	IC-0109-S	1.9	0.655	0.090	0.0389	
720 minute winter	IC-0109-S	480	0.954	0.054	2.5	0.1195	0.0000	OK	008	IC-0110-S	2.5	0.704	0.128	0.2390	
720 minute winter	IC-0110-S	480	0.953	0.303	2.9	1.3430	0.0000	SURCHARGED	009	MH-0111-S	2.7	0.622	0.150	0.2562	
720 minute winter	MH-0111-S	480	0.951	0.451	4.5	1.2934	0.0000	SURCHARGED	010	MH-0112-S	4.1	0.553	0.050	1.2446	
720 minute winter	MH-0112-S	480	0.951	0.601	4.7	24.5830	0.0000	SURCHARGED	011	MH-0113-S	4.7	0.490	0.050	0.6850	
720 minute winter	MH-0113-S	480	0.951	0.671	7.0	4.5416	0.0000	SURCHARGED	013	MH-0106-S	3.8	0.464	0.042	0.6348	
720 minute winter	MH-0114-S	480	0.951	0.571	1.4	4.2792	0.0000	SURCHARGED	012	MH-0113-S	1.8	0.176	0.024	1.5089	
720 minute winter	MH-0115-S	480	0.951	0.791	3.8	0.8944	0.0000	OK	Hydro-Brake®	DUMMY	3.8				
720 minute winter	DITCH	480	0.115	0.045	3.8	0.0000	0.0000	OK							
720 minute winter	DUMMY	480	0.196	0.046	3.8	0.0525	0.0000	OK	017	DITCH	3.8	0.562	0.050	0.1148	132.2

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Results for 100 year 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	IC-0101-S	495	1.120	0.020	0.7	0.0665	0.0000	OK	001	IC-0102-S	0.7	0.437	0.038	0.0225	
960 minute summer	IC-0102-S	495	0.974	0.024	1.0	0.0720	0.0000	OK	002	IC-0103-S	1.0	0.488	0.056	0.0301	
960 minute summer	IC-0103-S	585	0.829	0.029	1.4	0.0085	0.0000	OK	016	MH-0111-S	1.4	0.603	0.077	0.2022	
960 minute summer	MH-0106-S	585	0.828	0.608	3.8	0.6882	0.0000	SURCHARGED	014	MH-0115-S	3.5	0.170	0.047	0.9471	
960 minute summer	IC-0107-S	495	1.228	0.028	1.4	0.1919	0.0000	OK	006	IC-0108-S	1.4	0.554	0.079	0.0381	
960 minute summer	IC-0108-S	495	1.082	0.032	2.1	0.0606	0.0000	OK	007	IC-0109-S	2.1	0.671	0.099	0.0334	
960 minute summer	IC-0109-S	495	0.938	0.038	2.8	0.0851	0.0000	OK	008	IC-0110-S	2.8	0.731	0.143	0.2055	
960 minute summer	IC-0110-S	585	0.830	0.180	3.2	0.7984	0.0000	SURCHARGED	009	MH-0111-S	3.2	0.641	0.178	0.2562	
960 minute summer	MH-0111-S	585	0.829	0.329	5.3	0.9421	0.0000	SURCHARGED	010	MH-0112-S	4.8	0.553	0.057	1.2446	
960 minute summer	MH-0112-S	585	0.829	0.479	5.5	19.0882	0.0000	SURCHARGED	011	MH-0113-S	4.9	0.490	0.052	0.6850	
960 minute summer	MH-0113-S	585	0.829	0.549	7.2	3.7120	0.0000	SURCHARGED	013	MH-0106-S	3.8	0.464	0.042	0.6348	
960 minute summer	MH-0114-S	585	0.829	0.449	1.5	3.3607	0.0000	SURCHARGED	012	MH-0113-S	1.8	0.176	0.024	1.5089	
960 minute summer	MH-0115-S	585	0.828	0.668	3.5	0.7558	0.0000	OK	Hydro-Brake®	DUMMY	3.5				
960 minute summer	DITCH	585	0.113	0.043	3.5	0.0000	0.0000	OK							
960 minute summer	DUMMY	585	0.195	0.045	3.5	0.0504	0.0000	OK	017	DITCH	3.5	0.549	0.046	0.1085	123.1

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Results for 100 year 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	IC-0101-S	465	1.117	0.017	0.5	0.0567	0.0000	OK	001	IC-0102-S	0.5	0.398	0.027	0.0177	
960 minute winter	IC-0102-S	465	0.970	0.020	0.7	0.0607	0.0000	OK	002	IC-0103-S	0.7	0.436	0.039	0.0238	
960 minute winter	IC-0103-S	630	0.826	0.026	1.0	0.0075	0.0000	OK	016	MH-0111-S	1.0	0.550	0.055	0.1984	
960 minute winter	MH-0106-S	630	0.825	0.605	4.6	0.6844	0.0000	SURCHARGED	014	MH-0115-S	3.6	0.202	0.049	0.9471	
960 minute winter	IC-0107-S	495	1.224	0.024	1.0	0.1629	0.0000	OK	006	IC-0108-S	1.0	0.502	0.056	0.0300	
960 minute winter	IC-0108-S	495	1.077	0.027	1.5	0.0513	0.0000	OK	007	IC-0109-S	1.5	0.609	0.071	0.0263	
960 minute winter	IC-0109-S	495	0.932	0.032	2.0	0.0719	0.0000	OK	008	IC-0110-S	2.0	0.662	0.102	0.2052	
960 minute winter	IC-0110-S	630	0.827	0.177	2.3	0.7830	0.0000	SURCHARGED	009	MH-0111-S	2.3	0.589	0.128	0.2562	
960 minute winter	MH-0111-S	630	0.825	0.325	3.8	0.9325	0.0000	SURCHARGED	010	MH-0112-S	3.5	0.529	0.042	1.2446	
960 minute winter	MH-0112-S	630	0.825	0.475	4.3	18.9396	0.0000	SURCHARGED	011	MH-0113-S	3.2	0.487	0.034	0.6850	
960 minute winter	MH-0113-S	630	0.825	0.545	4.9	3.6896	0.0000	SURCHARGED	013	MH-0106-S	4.6	0.464	0.051	0.6348	
960 minute winter	MH-0114-S	630	0.825	0.445	1.8	3.3358	0.0000	SURCHARGED	012	MH-0113-S	1.2	0.178	0.015	1.5089	
960 minute winter	MH-0115-S	630	0.825	0.665	3.6	0.7521	0.0000	OK	Hydro-Brake®	DUMMY	3.5				
960 minute winter	DITCH	630	0.113	0.043	3.5	0.0000	0.0000	OK							
960 minute winter	DUMMY	630	0.195	0.045	3.5	0.0504	0.0000	OK	017	DITCH	3.5	0.548	0.046	0.1083	136.9

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Results for 100 year 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	IC-0101-S	720	1.115	0.015	0.4	0.0510	0.0000	OK	001	IC-0102-S	0.4	0.363	0.022	0.0155	
1440 minute summer	IC-0102-S	720	0.969	0.019	0.6	0.0564	0.0000	OK	002	IC-0103-S	0.6	0.427	0.033	0.0218	
1440 minute summer	IC-0103-S	750	0.823	0.023	0.9	0.0067	0.0000	OK	016	MH-0111-S	0.9	0.533	0.050	0.1261	
1440 minute summer	MH-0106-S	840	0.682	0.462	4.8	0.5224	0.0000	SURCHARGED	014	MH-0115-S	3.3	0.168	0.045	0.9471	
1440 minute summer	IC-0107-S	750	1.223	0.023	0.9	0.1548	0.0000	OK	006	IC-0108-S	0.9	0.493	0.051	0.0275	
1440 minute summer	IC-0108-S	750	1.075	0.025	1.3	0.0478	0.0000	OK	007	IC-0109-S	1.3	0.588	0.062	0.0236	
1440 minute summer	IC-0109-S	750	0.930	0.030	1.7	0.0664	0.0000	OK	008	IC-0110-S	1.7	0.626	0.087	0.0558	
1440 minute summer	IC-0110-S	750	0.684	0.034	2.0	0.1495	0.0000	OK	009	MH-0111-S	2.0	0.590	0.111	0.1487	
1440 minute summer	MH-0111-S	840	0.682	0.182	3.3	0.5219	0.0000	OK	010	MH-0112-S	3.3	0.520	0.039	1.0030	
1440 minute summer	MH-0112-S	840	0.682	0.332	3.7	12.5255	0.0000	SURCHARGED	011	MH-0113-S	3.0	0.441	0.031	0.6850	
1440 minute summer	MH-0113-S	840	0.682	0.402	4.5	2.7203	0.0000	SURCHARGED	013	MH-0106-S	4.8	0.452	0.053	0.6348	
1440 minute summer	MH-0114-S	840	0.682	0.302	1.0	2.2627	0.0000	SURCHARGED	012	MH-0113-S	1.0	0.203	0.014	1.5087	
1440 minute summer	MH-0115-S	840	0.682	0.522	3.3	0.5901	0.0000	OK	Hydro-Brake®	DUMMY	3.1				
1440 minute summer	DITCH	840	0.111	0.041	3.1	0.0000	0.0000	OK							
1440 minute summer	DUMMY	840	0.192	0.042	3.1	0.0475	0.0000	OK	017	DITCH	3.1	0.530	0.041	0.0998	123.7

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Results for 100 year 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	IC-0101-S	630	1.113	0.013	0.3	0.0445	0.0000	OK	001	IC-0102-S	0.3	0.347	0.016	0.0133	
1440 minute winter	IC-0102-S	690	0.967	0.017	0.5	0.0517	0.0000	OK	002	IC-0103-S	0.5	0.394	0.028	0.0187	
1440 minute winter	IC-0103-S	690	0.820	0.020	0.7	0.0059	0.0000	OK	016	MH-0111-S	0.7	0.495	0.039	0.0566	
1440 minute winter	MH-0106-S	870	0.635	0.415	3.8	0.4695	0.0000	SURCHARGED	014	MH-0115-S	3.2	0.169	0.043	0.9471	
1440 minute winter	IC-0107-S	720	1.220	0.020	0.7	0.1371	0.0000	OK	006	IC-0108-S	0.7	0.459	0.039	0.0229	
1440 minute winter	IC-0108-S	720	1.072	0.022	1.0	0.0421	0.0000	OK	007	IC-0109-S	1.0	0.545	0.047	0.0196	
1440 minute winter	IC-0109-S	720	0.926	0.026	1.3	0.0582	0.0000	OK	008	IC-0110-S	1.3	0.583	0.066	0.0458	
1440 minute winter	IC-0110-S	720	0.679	0.029	1.5	0.1296	0.0000	OK	009	MH-0111-S	1.5	0.539	0.083	0.1369	
1440 minute winter	MH-0111-S	870	0.635	0.135	2.5	0.3878	0.0000	OK	010	MH-0112-S	2.5	0.522	0.030	0.7964	
1440 minute winter	MH-0112-S	870	0.635	0.285	2.8	10.5027	0.0000	OK	011	MH-0113-S	4.1	0.450	0.044	0.6789	
1440 minute winter	MH-0113-S	870	0.635	0.355	5.8	2.4036	0.0000	SURCHARGED	013	MH-0106-S	3.8	0.456	0.042	0.6348	
1440 minute winter	MH-0114-S	870	0.635	0.255	0.8	1.9122	0.0000	OK	012	MH-0113-S	1.3	0.237	0.018	1.4389	
1440 minute winter	MH-0115-S	870	0.635	0.475	3.2	0.5372	0.0000	OK	Hydro-Brake®	DUMMY	3.0				
1440 minute winter	DITCH	870	0.110	0.040	3.0	0.0000	0.0000	OK							
1440 minute winter	DUMMY	870	0.191	0.041	3.0	0.0465	0.0000	OK	017	DITCH	3.0	0.523	0.039	0.0966	141.3

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Results for 100 year +40% 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 99.32%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0101-S	13	1.159	0.059	5.8	0.1961	0.0000	OK	001	IC-0102-S	5.8	0.749	0.316	0.1091	
15 minute summer	IC-0102-S	14	1.027	0.077	8.7	0.2307	0.0000	OK	002	IC-0103-S	8.7	0.865	0.485	0.1518	
15 minute summer	IC-0103-S	24	0.965	0.165	12.1	0.0481	0.0000	SURCHARGED	016	MH-0111-S	12.1	1.073	0.671	0.3560	
15 minute summer	MH-0106-S	25	0.967	0.747	19.1	0.8443	0.0000	SURCHARGED	014	MH-0115-S	12.6	0.448	0.171	0.9471	
15 minute summer	IC-0107-S	17	1.395	0.195	12.2	1.3165	0.0000	SURCHARGED	006	IC-0108-S	12.2	0.877	0.688	0.2649	
15 minute summer	IC-0108-S	17	1.346	0.296	18.0	0.5615	0.0000	SURCHARGED	007	IC-0109-S	15.8	1.021	0.750	0.1873	
15 minute summer	IC-0109-S	17	1.268	0.368	21.4	0.8193	0.0000	SURCHARGED	008	IC-0110-S	19.1	1.111	0.975	0.3617	
15 minute summer	IC-0110-S	19	1.056	0.406	22.5	1.8001	0.0000	SURCHARGED	009	MH-0111-S	20.9	1.187	1.159	0.2562	
15 minute summer	MH-0111-S	24	0.966	0.466	38.8	1.3347	0.0000	SURCHARGED	010	MH-0112-S	38.1	1.096	0.457	1.2446	
15 minute summer	MH-0112-S	25	0.967	0.617	52.0	25.2817	0.0000	SURCHARGED	011	MH-0113-S	11.1	0.597	0.118	0.6850	
15 minute summer	MH-0113-S	25	0.967	0.687	27.6	4.6475	0.0000	SURCHARGED	013	MH-0106-S	19.1	0.781	0.211	0.6348	
15 minute summer	MH-0114-S	25	0.968	0.588	15.2	4.4039	0.0000	SURCHARGED	012	MH-0113-S	10.3	0.575	0.137	1.5089	
15 minute summer	MH-0115-S	25	0.966	0.806	12.6	0.9118	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	3.8				
15 minute summer	DITCH	25	0.115	0.045	3.8	0.0000	0.0000	OK							
15 minute summer	DUMMY	25	0.197	0.047	3.8	0.0527	0.0000	OK	017	DITCH	3.8	0.564	0.050	0.1156	45.1

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Results for 100 year +40% 15 minute winter. 255 minute analysis at 1 minute timestep. Mass balance: 99.33%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	IC-0101-S	13	1.164	0.064	6.6	0.2120	0.0000	OK	001	IC-0102-S	6.6	0.767	0.360	0.1209	
15 minute winter	IC-0102-S	26	1.041	0.091	9.9	0.2738	0.0000	OK	002	IC-0103-S	9.9	0.873	0.551	0.2115	
15 minute winter	IC-0103-S	26	1.039	0.239	13.7	0.0697	0.0000	SURCHARGED	016	MH-0111-S	14.2	1.098	0.786	0.3560	
15 minute winter	MH-0106-S	25	1.040	0.820	13.6	0.9274	0.0000	SURCHARGED	014	MH-0115-S	7.4	0.462	0.100	0.9471	
15 minute winter	IC-0107-S	17	1.486	0.286	13.7	1.9236	0.0000	SURCHARGED	006	IC-0108-S	11.6	0.887	0.657	0.2649	
15 minute winter	IC-0108-S	17	1.434	0.384	17.8	0.7269	0.0000	SURCHARGED	007	IC-0109-S	16.5	1.004	0.782	0.1873	
15 minute winter	IC-0109-S	17	1.351	0.451	22.7	1.0022	0.0000	SURCHARGED	008	IC-0110-S	19.6	1.113	1.000	0.3617	
15 minute winter	IC-0110-S	19	1.131	0.481	23.4	2.1355	0.0000	SURCHARGED	009	MH-0111-S	21.3	1.209	1.181	0.2562	
15 minute winter	MH-0111-S	25	1.038	0.538	41.5	1.5426	0.0000	SURCHARGED	010	MH-0112-S	40.0	1.099	0.480	1.2446	
15 minute winter	MH-0112-S	26	1.040	0.690	47.9	28.5430	0.0000	SURCHARGED	011	MH-0113-S	15.1	0.614	0.160	0.6850	
15 minute winter	MH-0113-S	26	1.040	0.760	32.3	5.1425	0.0000	SURCHARGED	013	MH-0106-S	13.6	0.707	0.151	0.6348	
15 minute winter	MH-0114-S	26	1.040	0.660	15.3	4.9451	0.0000	SURCHARGED	012	MH-0113-S	14.6	0.574	0.193	1.5089	
15 minute winter	MH-0115-S	25	1.040	0.880	7.4	0.9953	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.0				
15 minute winter	DITCH	26	0.116	0.046	4.0	0.0000	0.0000	OK							
15 minute winter	DUMMY	26	0.198	0.048	4.0	0.0538	0.0000	OK	017	DITCH	4.0	0.570	0.053	0.1191	47.7

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Results for 100 year +40% 30 minute summer. 270 minute analysis at 1 minute timestep. Mass balance: 99.40%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	IC-0101-S	21	1.160	0.060	6.0	0.2001	0.0000	OK	001	IC-0102-S	6.0	0.757	0.327	0.1409	
30 minute summer	IC-0102-S	37	1.129	0.179	9.0	0.5374	0.0000	SURCHARGED	002	IC-0103-S	9.0	0.874	0.501	0.2583	
30 minute summer	IC-0103-S	37	1.129	0.329	12.5	0.0957	0.0000	SURCHARGED	016	MH-0111-S	12.6	1.068	0.695	0.3560	
30 minute summer	MH-0106-S	37	1.128	0.908	10.1	1.0266	0.0000	SURCHARGED	014	MH-0115-S	6.9	0.395	0.093	0.9471	
30 minute summer	IC-0107-S	25	1.431	0.231	12.6	1.5561	0.0000	SURCHARGED	006	IC-0108-S	11.4	0.870	0.643	0.2649	
30 minute summer	IC-0108-S	25	1.389	0.339	17.2	0.6420	0.0000	SURCHARGED	007	IC-0109-S	15.0	1.017	0.711	0.1873	
30 minute summer	IC-0109-S	25	1.322	0.422	21.0	0.9387	0.0000	SURCHARGED	008	IC-0110-S	18.9	1.101	0.963	0.3617	
30 minute summer	IC-0110-S	30	1.156	0.506	22.4	2.2432	0.0000	SURCHARGED	009	MH-0111-S	19.5	1.109	1.083	0.2562	
30 minute summer	MH-0111-S	37	1.128	0.628	37.6	1.7991	0.0000	SURCHARGED	010	MH-0112-S	35.6	1.001	0.427	1.2446	
30 minute summer	MH-0112-S	37	1.128	0.778	41.9	32.4983	0.0000	SURCHARGED	011	MH-0113-S	11.4	0.589	0.121	0.6850	
30 minute summer	MH-0113-S	37	1.128	0.848	23.7	5.7364	0.0000	SURCHARGED	013	MH-0106-S	10.1	0.644	0.112	0.6348	
30 minute summer	MH-0114-S	36	1.128	0.748	14.1	5.5999	0.0000	SURCHARGED	012	MH-0113-S	9.4	0.420	0.124	1.5089	
30 minute summer	MH-0115-S	37	1.127	0.967	6.9	1.0942	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.2				
30 minute summer	DITCH	37	0.117	0.047	4.2	0.0000	0.0000	OK							
30 minute summer	DUMMY	37	0.199	0.049	4.2	0.0550	0.0000	OK	017	DITCH	4.2	0.577	0.055	0.1230	53.2

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Results for 100 year +40% 30 minute winter. 270 minute analysis at 1 minute timestep. Mass balance: 99.47%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	IC-0101-S	38	1.217	0.117	6.3	0.3866	0.0000	OK	001	IC-0102-S	6.3	0.775	0.341	0.2267	
30 minute winter	IC-0102-S	38	1.217	0.267	9.5	0.7999	0.0000	SURCHARGED	002	IC-0103-S	9.5	0.880	0.528	0.2583	
30 minute winter	IC-0103-S	38	1.217	0.417	13.1	0.1212	0.0000	SURCHARGED	016	MH-0111-S	13.0	1.057	0.718	0.3560	
30 minute winter	MH-0106-S	38	1.216	0.996	15.4	1.1265	0.0000	SURCHARGED	014	MH-0115-S	8.7	0.406	0.118	0.9471	
30 minute winter	IC-0107-S	26	1.489	0.289	13.2	1.9481	0.0000	SURCHARGED	006	IC-0108-S	12.5	0.875	0.703	0.2649	
30 minute winter	IC-0108-S	26	1.450	0.400	18.5	0.7569	0.0000	SURCHARGED	007	IC-0109-S	15.8	1.003	0.750	0.1873	
30 minute winter	IC-0109-S	26	1.387	0.487	21.3	1.0837	0.0000	SURCHARGED	008	IC-0110-S	18.8	1.091	0.960	0.3617	
30 minute winter	IC-0110-S	31	1.244	0.594	22.4	2.6366	0.0000	SURCHARGED	009	MH-0111-S	19.1	1.087	1.061	0.2562	
30 minute winter	MH-0111-S	38	1.216	0.716	37.5	2.0522	0.0000	SURCHARGED	010	MH-0112-S	35.0	1.001	0.420	1.2446	
30 minute winter	MH-0112-S	38	1.216	0.866	47.5	36.4634	0.0000	SURCHARGED	011	MH-0113-S	13.9	0.605	0.147	0.6850	
30 minute winter	MH-0113-S	38	1.216	0.936	26.6	6.3346	0.0000	SURCHARGED	013	MH-0106-S	15.4	0.671	0.170	0.6348	
30 minute winter	MH-0114-S	39	1.216	0.836	14.8	6.2619	0.0000	SURCHARGED	012	MH-0113-S	7.4	0.441	0.098	1.5089	
30 minute winter	MH-0115-S	38	1.216	1.056	8.7	1.1941	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.4				
30 minute winter	DITCH	39	0.118	0.048	4.4	0.0000	0.0000	OK							
30 minute winter	DUMMY	39	0.200	0.050	4.4	0.0562	0.0000	OK	017	DITCH	4.4	0.584	0.057	0.1268	56.2

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Results for 100 year +40% 60 minute summer. 300 minute analysis at 1 minute timestep. Mass balance: 99.58%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	IC-0101-S	65	1.249	0.149	5.2	0.4959	0.0000	OK	001	IC-0102-S	5.2	0.746	0.283	0.2471	
60 minute summer	IC-0102-S	65	1.249	0.299	7.8	0.8976	0.0000	SURCHARGED	002	IC-0103-S	8.0	0.849	0.445	0.2583	
60 minute summer	IC-0103-S	65	1.249	0.449	11.0	0.1307	0.0000	SURCHARGED	016	MH-0111-S	10.7	0.973	0.589	0.3560	
60 minute summer	MH-0106-S	64	1.248	1.028	8.7	1.1629	0.0000	SURCHARGED	014	MH-0115-S	5.4	0.363	0.073	0.9471	
60 minute summer	IC-0107-S	41	1.378	0.178	10.9	1.2007	0.0000	SURCHARGED	006	IC-0108-S	10.8	0.863	0.607	0.2649	
60 minute summer	IC-0108-S	41	1.349	0.299	16.0	0.5665	0.0000	SURCHARGED	007	IC-0109-S	14.8	1.003	0.700	0.1873	
60 minute summer	IC-0109-S	42	1.303	0.403	19.8	0.8971	0.0000	SURCHARGED	008	IC-0110-S	17.5	1.072	0.890	0.3617	
60 minute summer	IC-0110-S	63	1.250	0.600	20.2	2.6635	0.0000	SURCHARGED	009	MH-0111-S	16.1	1.026	0.892	0.2562	
60 minute summer	MH-0111-S	65	1.249	0.749	31.4	2.1450	0.0000	SURCHARGED	010	MH-0112-S	28.9	0.804	0.346	1.2446	
60 minute summer	MH-0112-S	65	1.249	0.899	38.2	37.9064	0.0000	SURCHARGED	011	MH-0113-S	6.5	0.570	0.069	0.6850	
60 minute summer	MH-0113-S	64	1.248	0.968	14.0	6.5527	0.0000	SURCHARGED	013	MH-0106-S	8.7	0.588	0.097	0.6348	
60 minute summer	MH-0114-S	64	1.248	0.868	12.2	6.5059	0.0000	SURCHARGED	012	MH-0113-S	6.5	0.373	0.087	1.5089	
60 minute summer	MH-0115-S	64	1.248	1.088	5.4	1.2304	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.4				
60 minute summer	DITCH	65	0.119	0.049	4.4	0.0000	0.0000	OK							
60 minute summer	DUMMY	65	0.200	0.050	4.4	0.0566	0.0000	OK	017	DITCH	4.4	0.586	0.058	0.1281	63.0

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Results for 100 year +40% 60 minute winter. 300 minute analysis at 1 minute timestep. Mass balance: 99.67%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	IC-0101-S	64	1.359	0.259	4.7	0.8586	0.0000	SURCHARGED	001	IC-0102-S	4.7	0.735	0.256	0.2472	
60 minute winter	IC-0102-S	64	1.359	0.409	7.1	1.2251	0.0000	SURCHARGED	002	IC-0103-S	7.3	0.818	0.406	0.2583	
60 minute winter	IC-0103-S	64	1.358	0.558	10.0	0.1625	0.0000	SURCHARGED	016	MH-0111-S	9.2	0.941	0.511	0.3560	
60 minute winter	MH-0106-S	64	1.357	1.137	9.6	1.2865	0.0000	FLOOD RISK	014	MH-0115-S	6.8	0.375	0.093	0.9471	
60 minute winter	IC-0107-S	44	1.407	0.207	9.8	1.3943	0.0000	SURCHARGED	006	IC-0108-S	10.1	0.874	0.570	0.2649	
60 minute winter	IC-0108-S	45	1.388	0.338	14.8	0.6410	0.0000	SURCHARGED	007	IC-0109-S	13.2	1.014	0.626	0.1873	
60 minute winter	IC-0109-S	63	1.362	0.462	17.8	1.0286	0.0000	SURCHARGED	008	IC-0110-S	16.7	1.048	0.849	0.3617	
60 minute winter	IC-0110-S	63	1.360	0.710	19.2	3.1493	0.0000	SURCHARGED	009	MH-0111-S	15.4	1.012	0.856	0.2562	
60 minute winter	MH-0111-S	64	1.358	0.858	28.1	2.4579	0.0000	SURCHARGED	010	MH-0112-S	26.1	0.834	0.313	1.2446	
60 minute winter	MH-0112-S	64	1.358	1.008	32.1	42.7989	0.0000	SURCHARGED	011	MH-0113-S	8.7	0.574	0.093	0.6850	
60 minute winter	MH-0113-S	64	1.358	1.078	15.4	7.2918	0.0000	FLOOD RISK	013	MH-0106-S	9.6	0.599	0.107	0.6348	
60 minute winter	MH-0114-S	64	1.358	0.978	11.0	7.3240	0.0000	SURCHARGED	012	MH-0113-S	6.2	0.393	0.082	1.5089	
60 minute winter	MH-0115-S	64	1.357	1.197	6.8	1.3539	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.6				
60 minute winter	DITCH	65	0.120	0.050	4.6	0.0000	0.0000	OK							
60 minute winter	DUMMY	65	0.201	0.051	4.6	0.0579	0.0000	OK	017	DITCH	4.6	0.594	0.061	0.1324	66.6

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Results for 100 year +40% 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.79%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	IC-0101-S	120	1.379	0.279	4.0	0.9271	0.0000	SURCHARGED	001	IC-0102-S	4.0	0.705	0.218	0.2472	
120 minute summer	IC-0102-S	120	1.379	0.429	6.0	1.2872	0.0000	SURCHARGED	002	IC-0103-S	6.0	0.780	0.332	0.2583	
120 minute summer	IC-0103-S	120	1.379	0.579	8.3	0.1685	0.0000	SURCHARGED	016	MH-0111-S	7.5	0.832	0.416	0.3560	
120 minute summer	MH-0106-S	120	1.378	1.158	6.5	1.3098	0.0000	FLOOD RISK	014	MH-0115-S	4.7	0.312	0.063	0.9471	
120 minute summer	IC-0107-S	118	1.384	0.184	8.3	1.2367	0.0000	SURCHARGED	006	IC-0108-S	8.3	0.826	0.470	0.2649	
120 minute summer	IC-0108-S	120	1.383	0.333	12.3	0.6311	0.0000	SURCHARGED	007	IC-0109-S	11.1	0.987	0.527	0.1873	
120 minute summer	IC-0109-S	120	1.383	0.483	14.9	1.0732	0.0000	SURCHARGED	008	IC-0110-S	13.3	1.026	0.679	0.3617	
120 minute summer	IC-0110-S	120	1.381	0.731	15.5	3.2407	0.0000	SURCHARGED	009	MH-0111-S	12.7	0.857	0.703	0.2562	
120 minute summer	MH-0111-S	120	1.379	0.879	24.1	2.5174	0.0000	SURCHARGED	010	MH-0112-S	22.3	0.654	0.268	1.2446	
120 minute summer	MH-0112-S	120	1.379	1.029	27.1	43.7237	0.0000	SURCHARGED	011	MH-0113-S	6.1	0.522	0.065	0.6850	
120 minute summer	MH-0113-S	120	1.378	1.098	10.7	7.4315	0.0000	FLOOD RISK	013	MH-0106-S	6.5	0.550	0.071	0.6348	
120 minute summer	MH-0114-S	120	1.378	0.998	9.3	7.4788	0.0000	SURCHARGED	012	MH-0113-S	5.3	0.324	0.070	1.5089	
120 minute summer	MH-0115-S	120	1.378	1.218	4.7	1.3772	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.7				
120 minute summer	DITCH	120	0.120	0.050	4.7	0.0000	0.0000	OK							
120 minute summer	DUMMY	120	0.201	0.051	4.7	0.0582	0.0000	OK	017	DITCH	4.7	0.595	0.061	0.1331	79.7

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Results for 100 year +40% 120 minute winter. 360 minute analysis at 2 minute timestep. Mass balance: 99.92%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	IC-0101-S	120	1.521	0.421	3.2	1.3958	0.0000	SURCHARGED	001	IC-0102-S	3.2	0.666	0.175	0.2472	
120 minute winter	IC-0102-S	120	1.521	0.571	4.8	1.7107	0.0000	SURCHARGED	002	IC-0103-S	4.7	0.730	0.263	0.2583	
120 minute winter	IC-0103-S	120	1.520	0.720	6.5	0.2096	0.0000	SURCHARGED	016	MH-0111-S	5.8	0.816	0.323	0.3560	
120 minute winter	MH-0106-S	120	1.519	1.299	7.0	1.4695	0.0000	FLOOD RISK	014	MH-0115-S	4.9	0.322	0.067	0.9471	
120 minute winter	IC-0107-S	118	1.526	0.326	6.7	2.1930	0.0000	SURCHARGED	006	IC-0108-S	6.9	0.838	0.387	0.2649	
120 minute winter	IC-0108-S	118	1.525	0.475	10.1	0.9001	0.0000	SURCHARGED	007	IC-0109-S	9.7	0.961	0.458	0.1873	
120 minute winter	IC-0109-S	118	1.524	0.624	12.9	1.3888	0.0000	SURCHARGED	008	IC-0110-S	11.4	0.994	0.582	0.3617	
120 minute winter	IC-0110-S	118	1.522	0.872	13.1	3.8677	0.0000	FLOOD RISK	009	MH-0111-S	10.7	0.856	0.593	0.2562	
120 minute winter	MH-0111-S	120	1.520	1.020	19.6	2.9221	0.0000	FLOOD RISK	010	MH-0112-S	18.3	0.667	0.220	1.2446	
120 minute winter	MH-0112-S	120	1.520	1.170	21.5	50.0563	0.0000	FLOOD RISK	011	MH-0113-S	6.6	0.557	0.071	0.6850	
120 minute winter	MH-0113-S	120	1.520	1.240	8.9	8.3874	0.0000	FLOOD RISK	013	MH-0106-S	7.0	0.558	0.077	0.6348	
120 minute winter	MH-0114-S	120	1.520	1.140	7.5	8.5370	0.0000	FLOOD RISK	012	MH-0113-S	4.3	0.343	0.057	1.5089	
120 minute winter	MH-0115-S	120	1.519	1.359	4.9	1.5370	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.9				
120 minute winter	DITCH	120	0.121	0.051	4.9	0.0000	0.0000	OK							
120 minute winter	DUMMY	120	0.203	0.053	4.9	0.0598	0.0000	OK	017	DITCH	4.9	0.604	0.065	0.1382	84.4

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Results for 100 year +40% 180 minute summer. 420 minute analysis at 4 minute timestep. Mass balance: 99.88%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	IC-0101-S	160	1.415	0.315	3.2	1.0443	0.0000	SURCHARGED	001	IC-0102-S	3.2	0.666	0.173	0.2472	
180 minute summer	IC-0102-S	160	1.415	0.465	4.8	1.3930	0.0000	SURCHARGED	002	IC-0103-S	4.7	0.702	0.263	0.2583	
180 minute summer	IC-0103-S	160	1.414	0.614	6.6	0.1788	0.0000	SURCHARGED	016	MH-0111-S	5.9	0.766	0.328	0.3560	
180 minute summer	MH-0106-S	160	1.413	1.193	5.0	1.3496	0.0000	FLOOD RISK	014	MH-0115-S	4.7	0.328	0.064	0.9471	
180 minute summer	IC-0107-S	160	1.419	0.219	6.6	1.4744	0.0000	SURCHARGED	006	IC-0108-S	6.6	0.792	0.373	0.2649	
180 minute summer	IC-0108-S	160	1.418	0.368	9.8	0.6979	0.0000	SURCHARGED	007	IC-0109-S	8.9	0.929	0.421	0.1873	
180 minute summer	IC-0109-S	160	1.418	0.518	11.9	1.1517	0.0000	SURCHARGED	008	IC-0110-S	10.8	0.963	0.552	0.3617	
180 minute summer	IC-0110-S	160	1.416	0.766	12.5	3.3972	0.0000	SURCHARGED	009	MH-0111-S	10.5	0.796	0.585	0.2562	
180 minute summer	MH-0111-S	160	1.414	0.914	19.7	2.6185	0.0000	SURCHARGED	010	MH-0112-S	18.3	0.600	0.220	1.2446	
180 minute summer	MH-0112-S	160	1.414	1.064	21.5	45.3036	0.0000	FLOOD RISK	011	MH-0113-S	4.6	0.498	0.049	0.6850	
180 minute summer	MH-0113-S	160	1.414	1.134	8.1	7.6700	0.0000	FLOOD RISK	013	MH-0106-S	5.0	0.530	0.055	0.6348	
180 minute summer	MH-0114-S	160	1.414	1.034	7.4	7.7428	0.0000	SURCHARGED	012	MH-0113-S	4.0	0.311	0.053	1.5089	
180 minute summer	MH-0115-S	160	1.413	1.253	4.7	1.4171	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.7				
180 minute summer	DITCH	160	0.120	0.050	4.7	0.0000	0.0000	OK							
180 minute summer	DUMMY	160	0.202	0.052	4.7	0.0586	0.0000	OK	017	DITCH	4.7	0.598	0.062	0.1345	93.2

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Results for 100 year +40% 180 minute winter. 420 minute analysis at 4 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	IC-0101-S	172	1.569	0.469	2.5	1.5570	0.0000	SURCHARGED	001	IC-0102-S	2.5	0.622	0.136	0.2472	
180 minute winter	IC-0102-S	172	1.569	0.619	3.7	1.8562	0.0000	SURCHARGED	002	IC-0103-S	3.5	0.680	0.193	0.2583	
180 minute winter	IC-0103-S	172	1.569	0.769	4.9	0.2238	0.0000	FLOOD RISK	016	MH-0111-S	4.5	0.756	0.247	0.3560	
180 minute winter	MH-0106-S	172	1.568	1.348	5.1	1.5244	0.0000	FLOOD RISK	014	MH-0115-S	5.0	0.262	0.068	0.9471	
180 minute winter	IC-0107-S	172	1.574	0.374	5.2	2.5198	0.0000	SURCHARGED	006	IC-0108-S	5.2	0.786	0.293	0.2649	
180 minute winter	IC-0108-S	172	1.574	0.524	7.7	0.9917	0.0000	SURCHARGED	007	IC-0109-S	7.5	0.902	0.355	0.1873	
180 minute winter	IC-0109-S	172	1.573	0.673	10.0	1.4964	0.0000	FLOOD RISK	008	IC-0110-S	8.7	0.927	0.442	0.3617	
180 minute winter	IC-0110-S	172	1.571	0.921	10.0	4.0836	0.0000	FLOOD RISK	009	MH-0111-S	8.5	0.757	0.474	0.2562	
180 minute winter	MH-0111-S	172	1.568	1.068	15.0	3.0612	0.0000	FLOOD RISK	010	MH-0112-S	14.0	0.616	0.168	1.2446	
180 minute winter	MH-0112-S	172	1.568	1.218	16.5	52.2284	0.0000	FLOOD RISK	011	MH-0113-S	4.3	0.523	0.046	0.6850	
180 minute winter	MH-0113-S	172	1.568	1.288	7.5	8.7155	0.0000	FLOOD RISK	013	MH-0106-S	5.1	0.495	0.057	0.6348	
180 minute winter	MH-0114-S	172	1.568	1.188	5.8	8.9005	0.0000	FLOOD RISK	012	MH-0113-S	3.3	0.323	0.044	1.5089	
180 minute winter	MH-0115-S	172	1.567	1.407	5.0	1.5918	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	5.0				
180 minute winter	DITCH	172	0.122	0.052	5.0	0.0000	0.0000	OK							
180 minute winter	DUMMY	172	0.203	0.053	5.0	0.0603	0.0000	OK	017	DITCH	5.0	0.607	0.066	0.1399	98.7

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Results for 100 year +40% 240 minute summer. 480 minute analysis at 4 minute timestep. Mass balance: 99.90%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	IC-0101-S	188	1.432	0.332	2.7	1.1006	0.0000	SURCHARGED	001	IC-0102-S	2.7	0.638	0.147	0.2472	
240 minute summer	IC-0102-S	188	1.432	0.482	4.0	1.4439	0.0000	SURCHARGED	002	IC-0103-S	3.9	0.670	0.218	0.2583	
240 minute summer	IC-0103-S	188	1.431	0.631	5.5	0.1837	0.0000	SURCHARGED	016	MH-0111-S	5.0	0.722	0.274	0.3560	
240 minute summer	MH-0106-S	188	1.430	1.210	5.5	1.3689	0.0000	FLOOD RISK	014	MH-0115-S	4.8	0.310	0.065	0.9471	
240 minute summer	IC-0107-S	192	1.436	0.236	5.6	1.5885	0.0000	SURCHARGED	006	IC-0108-S	5.6	0.804	0.318	0.2649	
240 minute summer	IC-0108-S	192	1.435	0.385	8.3	0.7300	0.0000	SURCHARGED	007	IC-0109-S	8.1	0.926	0.385	0.1873	
240 minute summer	IC-0109-S	192	1.435	0.535	10.8	1.1894	0.0000	SURCHARGED	008	IC-0110-S	9.6	0.906	0.488	0.3617	
240 minute summer	IC-0110-S	188	1.433	0.783	11.0	3.4725	0.0000	SURCHARGED	009	MH-0111-S	9.1	0.729	0.504	0.2562	
240 minute summer	MH-0111-S	188	1.431	0.931	16.3	2.6671	0.0000	SURCHARGED	010	MH-0112-S	15.3	0.568	0.183	1.2446	
240 minute summer	MH-0112-S	188	1.431	1.081	18.0	46.0647	0.0000	FLOOD RISK	011	MH-0113-S	5.2	0.504	0.055	0.6850	
240 minute summer	MH-0113-S	188	1.431	1.151	8.4	7.7849	0.0000	FLOOD RISK	013	MH-0106-S	5.5	0.485	0.061	0.6348	
240 minute summer	MH-0114-S	188	1.431	1.051	6.2	7.8701	0.0000	SURCHARGED	012	MH-0113-S	3.5	0.294	0.046	1.5089	
240 minute summer	MH-0115-S	188	1.430	1.270	4.8	1.4363	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.8				
240 minute summer	DITCH	188	0.120	0.050	4.8	0.0000	0.0000	OK							
240 minute summer	DUMMY	188	0.202	0.052	4.8	0.0588	0.0000	OK	017	DITCH	4.8	0.599	0.063	0.1351	105.7

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Results for 100 year +40% 240 minute winter. 480 minute analysis at 4 minute timestep. Mass balance: 99.98%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	IC-0101-S	196	1.580	0.480	2.1	1.5917	0.0000	SURCHARGED	001	IC-0102-S	2.1	0.572	0.114	0.2472	
240 minute winter	IC-0102-S	196	1.580	0.630	3.1	1.8876	0.0000	SURCHARGED	002	IC-0103-S	2.9	0.642	0.159	0.2583	
240 minute winter	IC-0103-S	196	1.579	0.779	4.0	0.2268	0.0000	FLOOD RISK	016	MH-0111-S	3.5	0.702	0.195	0.3560	
240 minute winter	MH-0106-S	196	1.578	1.358	5.1	1.5362	0.0000	FLOOD RISK	014	MH-0115-S	5.0	0.280	0.068	0.9471	
240 minute winter	IC-0107-S	196	1.585	0.385	4.3	2.5906	0.0000	SURCHARGED	006	IC-0108-S	4.3	0.751	0.245	0.2649	
240 minute winter	IC-0108-S	196	1.584	0.534	6.4	1.0116	0.0000	SURCHARGED	007	IC-0109-S	6.1	0.866	0.290	0.1873	
240 minute winter	IC-0109-S	196	1.583	0.683	8.1	1.5197	0.0000	FLOOD RISK	008	IC-0110-S	7.3	0.886	0.370	0.3617	
240 minute winter	IC-0110-S	196	1.581	0.931	8.4	4.1301	0.0000	FLOOD RISK	009	MH-0111-S	7.1	0.723	0.395	0.2562	
240 minute winter	MH-0111-S	196	1.579	1.079	12.1	3.0912	0.0000	FLOOD RISK	010	MH-0112-S	11.3	0.569	0.136	1.2446	
240 minute winter	MH-0112-S	196	1.579	1.229	13.4	52.6977	0.0000	FLOOD RISK	011	MH-0113-S	5.2	0.521	0.056	0.6850	
240 minute winter	MH-0113-S	196	1.579	1.299	7.5	8.7864	0.0000	FLOOD RISK	013	MH-0106-S	5.1	0.507	0.057	0.6348	
240 minute winter	MH-0114-S	196	1.579	1.199	4.8	8.9790	0.0000	FLOOD RISK	012	MH-0113-S	2.9	0.293	0.039	1.5089	
240 minute winter	MH-0115-S	196	1.578	1.418	5.0	1.6036	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	5.0				
240 minute winter	DITCH	196	0.122	0.052	5.0	0.0000	0.0000	OK							
240 minute winter	DUMMY	196	0.203	0.053	5.0	0.0604	0.0000	OK	017	DITCH	5.0	0.608	0.066	0.1403	112.1

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Results for 100 year +40% 360 minute summer. 600 minute analysis at 8 minute timestep. Mass balance: 99.93%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	IC-0101-S	256	1.404	0.304	2.0	1.0086	0.0000	SURCHARGED	001	IC-0102-S	2.0	0.584	0.109	0.2472	
360 minute summer	IC-0102-S	256	1.404	0.454	3.0	1.3607	0.0000	SURCHARGED	002	IC-0103-S	2.9	0.632	0.164	0.2583	
360 minute summer	IC-0103-S	256	1.404	0.604	4.1	0.1757	0.0000	SURCHARGED	016	MH-0111-S	3.4	0.690	0.189	0.3560	
360 minute summer	MH-0106-S	256	1.403	1.183	6.1	1.3376	0.0000	FLOOD RISK	014	MH-0115-S	4.7	0.284	0.064	0.9471	
360 minute summer	IC-0107-S	256	1.408	0.208	4.1	1.4016	0.0000	SURCHARGED	006	IC-0108-S	4.2	0.726	0.235	0.2649	
360 minute summer	IC-0108-S	256	1.408	0.358	6.2	0.6775	0.0000	SURCHARGED	007	IC-0109-S	6.0	0.849	0.285	0.1873	
360 minute summer	IC-0109-S	256	1.407	0.507	8.0	1.1277	0.0000	SURCHARGED	008	IC-0110-S	7.2	0.878	0.368	0.3617	
360 minute summer	IC-0110-S	256	1.405	0.755	8.4	3.3495	0.0000	SURCHARGED	009	MH-0111-S	7.4	0.718	0.410	0.2562	
360 minute summer	MH-0111-S	256	1.403	0.903	12.6	2.5877	0.0000	SURCHARGED	010	MH-0112-S	11.8	0.583	0.141	1.2446	
360 minute summer	MH-0112-S	256	1.403	1.053	13.8	44.8243	0.0000	FLOOD RISK	011	MH-0113-S	4.4	0.472	0.047	0.6850	
360 minute summer	MH-0113-S	256	1.403	1.123	6.6	7.5976	0.0000	FLOOD RISK	013	MH-0106-S	6.1	0.475	0.067	0.6348	
360 minute summer	MH-0114-S	256	1.403	1.023	4.6	7.6627	0.0000	SURCHARGED	012	MH-0113-S	2.6	0.260	0.034	1.5089	
360 minute summer	MH-0115-S	256	1.402	1.242	4.7	1.4050	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.7				
360 minute summer	DITCH	256	0.120	0.050	4.7	0.0000	0.0000	OK							
360 minute summer	DUMMY	256	0.202	0.052	4.7	0.0585	0.0000	OK	017	DITCH	4.7	0.597	0.062	0.1341	126.1

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Results for 100 year +40% 360 minute winter. 600 minute analysis at 8 minute timestep. Mass balance: 99.98%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	IC-0101-S	280	1.544	0.444	1.5	1.4730	0.0000	SURCHARGED	001	IC-0102-S	1.5	0.542	0.082	0.2472	
360 minute winter	IC-0102-S	280	1.544	0.594	2.3	1.7804	0.0000	SURCHARGED	002	IC-0103-S	2.2	0.580	0.122	0.2583	
360 minute winter	IC-0103-S	280	1.544	0.744	3.1	0.2164	0.0000	SURCHARGED	016	MH-0111-S	2.8	0.637	0.154	0.3560	
360 minute winter	MH-0106-S	280	1.542	1.322	5.0	1.4957	0.0000	FLOOD RISK	014	MH-0115-S	5.0	0.214	0.067	0.9471	
360 minute winter	IC-0107-S	272	1.549	0.349	3.2	2.3475	0.0000	SURCHARGED	006	IC-0108-S	3.2	0.700	0.181	0.2649	
360 minute winter	IC-0108-S	272	1.548	0.498	4.7	0.9433	0.0000	SURCHARGED	007	IC-0109-S	4.7	0.805	0.221	0.1873	
360 minute winter	IC-0109-S	272	1.547	0.647	6.2	1.4396	0.0000	SURCHARGED	008	IC-0110-S	5.7	0.807	0.289	0.3617	
360 minute winter	IC-0110-S	272	1.545	0.895	6.6	3.9708	0.0000	FLOOD RISK	009	MH-0111-S	5.7	0.678	0.317	0.2562	
360 minute winter	MH-0111-S	280	1.543	1.043	9.4	2.9886	0.0000	FLOOD RISK	010	MH-0112-S	8.8	0.548	0.106	1.2446	
360 minute winter	MH-0112-S	280	1.543	1.193	10.3	51.0930	0.0000	FLOOD RISK	011	MH-0113-S	4.3	0.501	0.046	0.6850	
360 minute winter	MH-0113-S	280	1.543	1.263	7.1	8.5441	0.0000	FLOOD RISK	013	MH-0106-S	5.0	0.474	0.055	0.6348	
360 minute winter	MH-0114-S	280	1.543	1.163	3.5	8.7106	0.0000	FLOOD RISK	012	MH-0113-S	2.1	0.271	0.028	1.5089	
360 minute winter	MH-0115-S	280	1.542	1.382	5.0	1.5631	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	5.0				
360 minute winter	DITCH	280	0.121	0.051	5.0	0.0000	0.0000	OK							
360 minute winter	DUMMY	280	0.203	0.053	5.0	0.0600	0.0000	OK	017	DITCH	5.0	0.606	0.065	0.1390	134.3

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Results for 100 year +40% 480 minute summer. 720 minute analysis at 8 minute timestep. Mass balance: 99.91%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	IC-0101-S	328	1.339	0.239	1.6	0.7929	0.0000	SURCHARGED	001	IC-0102-S	1.6	0.547	0.087	0.2472	
480 minute summer	IC-0102-S	328	1.339	0.389	2.4	1.1659	0.0000	SURCHARGED	002	IC-0103-S	2.4	0.613	0.133	0.2583	
480 minute summer	IC-0103-S	328	1.339	0.539	3.4	0.1568	0.0000	SURCHARGED	016	MH-0111-S	3.0	0.673	0.165	0.3560	
480 minute summer	MH-0106-S	328	1.338	1.118	5.1	1.2640	0.0000	SURCHARGED	014	MH-0115-S	4.6	0.270	0.062	0.9471	
480 minute summer	IC-0107-S	328	1.343	0.143	3.4	0.9632	0.0000	OK	006	IC-0108-S	3.4	0.706	0.190	0.2627	
480 minute summer	IC-0108-S	328	1.343	0.293	5.0	0.5543	0.0000	SURCHARGED	007	IC-0109-S	5.0	0.830	0.236	0.1873	
480 minute summer	IC-0109-S	328	1.342	0.442	6.6	0.9830	0.0000	SURCHARGED	008	IC-0110-S	6.1	0.831	0.311	0.3617	
480 minute summer	IC-0110-S	328	1.340	0.690	7.0	3.0610	0.0000	SURCHARGED	009	MH-0111-S	5.9	0.708	0.325	0.2562	
480 minute summer	MH-0111-S	328	1.338	0.838	10.2	2.4015	0.0000	SURCHARGED	010	MH-0112-S	9.6	0.588	0.115	1.2446	
480 minute summer	MH-0112-S	328	1.338	0.988	11.2	41.9100	0.0000	SURCHARGED	011	MH-0113-S	4.6	0.471	0.049	0.6850	
480 minute summer	MH-0113-S	328	1.338	1.058	7.4	7.1576	0.0000	FLOOD RISK	013	MH-0106-S	5.1	0.461	0.057	0.6348	
480 minute summer	MH-0114-S	328	1.338	0.958	3.8	7.1755	0.0000	SURCHARGED	012	MH-0113-S	2.2	0.231	0.029	1.5089	
480 minute summer	MH-0115-S	328	1.337	1.177	4.6	1.3315	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.6				
480 minute summer	DITCH	328	0.120	0.050	4.6	0.0000	0.0000	OK							
480 minute summer	DUMMY	328	0.201	0.051	4.6	0.0577	0.0000	OK	017	DITCH	4.6	0.593	0.060	0.1316	142.6

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Results for 100 year +40% 480 minute winter. 720 minute analysis at 8 minute timestep. Mass balance: 99.96%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	IC-0101-S	352	1.462	0.362	1.2	1.2010	0.0000	SURCHARGED	001	IC-0102-S	1.2	0.503	0.065	0.2472	
480 minute winter	IC-0102-S	352	1.462	0.512	1.8	1.5346	0.0000	SURCHARGED	002	IC-0103-S	1.8	0.575	0.100	0.2583	
480 minute winter	IC-0103-S	352	1.462	0.662	2.5	0.1925	0.0000	SURCHARGED	016	MH-0111-S	2.3	0.637	0.126	0.3560	
480 minute winter	MH-0106-S	352	1.461	1.241	5.3	1.4030	0.0000	FLOOD RISK	014	MH-0115-S	4.8	0.228	0.065	0.9471	
480 minute winter	IC-0107-S	352	1.466	0.266	2.5	1.7924	0.0000	SURCHARGED	006	IC-0108-S	2.5	0.655	0.141	0.2649	
480 minute winter	IC-0108-S	352	1.466	0.416	3.7	0.7874	0.0000	SURCHARGED	007	IC-0109-S	3.7	0.774	0.175	0.1873	
480 minute winter	IC-0109-S	352	1.465	0.565	4.9	1.2567	0.0000	SURCHARGED	008	IC-0110-S	4.8	0.783	0.243	0.3617	
480 minute winter	IC-0110-S	352	1.463	0.813	5.5	3.6067	0.0000	SURCHARGED	009	MH-0111-S	4.7	0.681	0.260	0.2562	
480 minute winter	MH-0111-S	352	1.461	0.961	7.9	2.7537	0.0000	FLOOD RISK	010	MH-0112-S	7.4	0.570	0.088	1.2446	
480 minute winter	MH-0112-S	352	1.461	1.111	8.6	47.4200	0.0000	FLOOD RISK	011	MH-0113-S	4.5	0.467	0.048	0.6850	
480 minute winter	MH-0113-S	352	1.461	1.181	7.1	7.9895	0.0000	FLOOD RISK	013	MH-0106-S	5.3	0.474	0.059	0.6348	
480 minute winter	MH-0114-S	352	1.461	1.081	2.8	8.0966	0.0000	FLOOD RISK	012	MH-0113-S	1.9	0.236	0.025	1.5089	
480 minute winter	MH-0115-S	352	1.460	1.300	4.8	1.4705	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.8				
480 minute winter	DITCH	352	0.121	0.051	4.8	0.0000	0.0000	OK							
480 minute winter	DUMMY	352	0.202	0.052	4.8	0.0591	0.0000	OK	017	DITCH	4.8	0.601	0.063	0.1362	152.5

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Results for 100 year +40% 600 minute summer. 840 minute analysis at 15 minute timestep. Mass balance: 99.91%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	IC-0101-S	390	1.290	0.190	1.3	0.6312	0.0000	SURCHARGED	001	IC-0102-S	1.3	0.510	0.071	0.2472	
600 minute summer	IC-0102-S	390	1.290	0.340	2.0	1.0198	0.0000	SURCHARGED	002	IC-0103-S	2.0	0.571	0.110	0.2583	
600 minute summer	IC-0103-S	390	1.290	0.490	2.8	0.1426	0.0000	SURCHARGED	016	MH-0111-S	2.3	0.638	0.127	0.3560	
600 minute summer	MH-0106-S	390	1.289	1.069	4.5	1.2090	0.0000	SURCHARGED	014	MH-0115-S	4.5	0.185	0.061	0.9471	
600 minute summer	IC-0107-S	390	1.294	0.094	2.7	0.6334	0.0000	OK	006	IC-0108-S	2.7	0.668	0.152	0.2199	
600 minute summer	IC-0108-S	390	1.294	0.244	4.0	0.4618	0.0000	SURCHARGED	007	IC-0109-S	4.0	0.796	0.189	0.1873	
600 minute summer	IC-0109-S	390	1.293	0.393	5.3	0.8745	0.0000	SURCHARGED	008	IC-0110-S	5.2	0.804	0.267	0.3617	
600 minute summer	IC-0110-S	390	1.291	0.641	6.0	2.8448	0.0000	SURCHARGED	009	MH-0111-S	5.1	0.673	0.285	0.2562	
600 minute summer	MH-0111-S	390	1.290	0.790	8.7	2.2620	0.0000	SURCHARGED	010	MH-0112-S	8.1	0.552	0.098	1.2446	
600 minute summer	MH-0112-S	390	1.289	0.939	9.4	39.7292	0.0000	SURCHARGED	011	MH-0113-S	4.1	0.487	0.044	0.6850	
600 minute summer	MH-0113-S	390	1.289	1.009	5.5	6.8284	0.0000	SURCHARGED	013	MH-0106-S	4.5	0.464	0.050	0.6348	
600 minute summer	MH-0114-S	390	1.289	0.909	3.1	6.8111	0.0000	SURCHARGED	012	MH-0113-S	2.0	0.207	0.026	1.5089	
600 minute summer	MH-0115-S	390	1.289	1.129	4.5	1.2765	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.5				
600 minute summer	DITCH	390	0.119	0.049	4.5	0.0000	0.0000	OK							
600 minute summer	DUMMY	390	0.201	0.051	4.5	0.0571	0.0000	OK	017	DITCH	4.5	0.589	0.059	0.1298	156.5

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Results for 100 year +40% 600 minute winter. 840 minute analysis at 15 minute timestep. Mass balance: 99.94%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	IC-0101-S	420	1.388	0.288	1.0	0.9560	0.0000	SURCHARGED	001	IC-0102-S	1.0	0.478	0.054	0.2472	
600 minute winter	IC-0102-S	420	1.388	0.438	1.5	1.3132	0.0000	SURCHARGED	002	IC-0103-S	1.5	0.528	0.084	0.2583	
600 minute winter	IC-0103-S	420	1.388	0.588	2.1	0.1711	0.0000	SURCHARGED	016	MH-0111-S	1.9	0.603	0.104	0.3560	
600 minute winter	MH-0106-S	420	1.387	1.167	4.7	1.3197	0.0000	FLOOD RISK	014	MH-0115-S	4.7	0.183	0.064	0.9471	
600 minute winter	IC-0107-S	420	1.393	0.193	2.1	1.2981	0.0000	SURCHARGED	006	IC-0108-S	2.1	0.625	0.118	0.2649	
600 minute winter	IC-0108-S	420	1.392	0.342	3.1	0.6482	0.0000	SURCHARGED	007	IC-0109-S	3.1	0.737	0.147	0.1873	
600 minute winter	IC-0109-S	420	1.392	0.492	4.1	1.0932	0.0000	SURCHARGED	008	IC-0110-S	4.0	0.755	0.202	0.3617	
600 minute winter	IC-0110-S	420	1.389	0.739	4.6	3.2799	0.0000	SURCHARGED	009	MH-0111-S	4.0	0.641	0.220	0.2562	
600 minute winter	MH-0111-S	420	1.387	0.887	6.5	2.5424	0.0000	SURCHARGED	010	MH-0112-S	6.1	0.557	0.074	1.2446	
600 minute winter	MH-0112-S	420	1.387	1.037	7.1	44.1146	0.0000	SURCHARGED	011	MH-0113-S	4.3	0.480	0.046	0.6850	
600 minute winter	MH-0113-S	420	1.387	1.107	6.2	7.4905	0.0000	FLOOD RISK	013	MH-0106-S	4.7	0.447	0.052	0.6348	
600 minute winter	MH-0114-S	420	1.387	1.007	2.4	7.5442	0.0000	SURCHARGED	012	MH-0113-S	1.6	0.249	0.021	1.5089	
600 minute winter	MH-0115-S	420	1.386	1.226	4.7	1.3871	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.7				
600 minute winter	DITCH	420	0.120	0.050	4.7	0.0000	0.0000	OK							
600 minute winter	DUMMY	420	0.202	0.052	4.7	0.0583	0.0000	OK	017	DITCH	4.7	0.596	0.062	0.1335	168.8

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Results for 100 year +40% 720 minute summer. 960 minute analysis at 15 minute timestep. Mass balance: 99.98%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	IC-0101-S	465	1.245	0.145	1.2	0.4820	0.0000	OK	001	IC-0102-S	1.2	0.503	0.065	0.2461	
720 minute summer	IC-0102-S	465	1.245	0.295	1.8	0.8851	0.0000	SURCHARGED	002	IC-0103-S	1.8	0.580	0.100	0.2583	
720 minute summer	IC-0103-S	465	1.245	0.445	2.5	0.1295	0.0000	SURCHARGED	016	MH-0111-S	2.5	0.638	0.136	0.3560	
720 minute summer	MH-0106-S	465	1.244	1.024	4.4	1.1583	0.0000	SURCHARGED	014	MH-0115-S	4.4	0.194	0.060	0.9471	
720 minute summer	IC-0107-S	450	1.249	0.049	2.4	0.3268	0.0000	OK	006	IC-0108-S	2.4	0.645	0.135	0.1695	
720 minute summer	IC-0108-S	450	1.248	0.198	3.6	0.3755	0.0000	SURCHARGED	007	IC-0109-S	3.6	0.773	0.170	0.1873	
720 minute summer	IC-0109-S	450	1.248	0.348	4.8	0.7730	0.0000	SURCHARGED	008	IC-0110-S	4.7	0.761	0.242	0.3617	
720 minute summer	IC-0110-S	465	1.246	0.596	5.4	2.6443	0.0000	SURCHARGED	009	MH-0111-S	4.6	0.673	0.256	0.2562	
720 minute summer	MH-0111-S	465	1.245	0.745	8.3	2.1334	0.0000	SURCHARGED	010	MH-0112-S	7.7	0.557	0.093	1.2446	
720 minute summer	MH-0112-S	465	1.245	0.895	8.9	37.7199	0.0000	SURCHARGED	011	MH-0113-S	4.3	0.454	0.046	0.6850	
720 minute summer	MH-0113-S	465	1.244	0.964	6.8	6.5250	0.0000	SURCHARGED	013	MH-0106-S	4.4	0.464	0.049	0.6348	
720 minute summer	MH-0114-S	465	1.244	0.864	2.7	6.4752	0.0000	SURCHARGED	012	MH-0113-S	1.7	0.190	0.023	1.5089	
720 minute summer	MH-0115-S	465	1.244	1.084	4.4	1.2258	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.4				
720 minute summer	DITCH	465	0.119	0.049	4.4	0.0000	0.0000	OK							
720 minute summer	DUMMY	465	0.200	0.050	4.4	0.0566	0.0000	OK	017	DITCH	4.4	0.586	0.058	0.1279	165.0

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Results for 100 year +40% 720 minute winter. 960 minute analysis at 15 minute timestep. Mass balance: 99.93%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	IC-0101-S	495	1.312	0.212	0.9	0.7048	0.0000	SURCHARGED	001	IC-0102-S	0.9	0.469	0.049	0.2472	
720 minute winter	IC-0102-S	495	1.312	0.362	1.3	1.0863	0.0000	SURCHARGED	002	IC-0103-S	1.3	0.511	0.072	0.2583	
720 minute winter	IC-0103-S	495	1.312	0.512	1.8	0.1490	0.0000	SURCHARGED	016	MH-0111-S	1.7	0.603	0.093	0.3560	
720 minute winter	MH-0106-S	495	1.311	1.091	5.3	1.2340	0.0000	SURCHARGED	014	MH-0115-S	4.6	0.249	0.062	0.9471	
720 minute winter	IC-0107-S	495	1.316	0.116	1.8	0.7830	0.0000	OK	006	IC-0108-S	1.8	0.595	0.102	0.2427	
720 minute winter	IC-0108-S	495	1.316	0.266	2.7	0.5038	0.0000	SURCHARGED	007	IC-0109-S	2.7	0.717	0.128	0.1873	
720 minute winter	IC-0109-S	495	1.315	0.415	3.6	0.9238	0.0000	SURCHARGED	008	IC-0110-S	3.6	0.739	0.183	0.3617	
720 minute winter	IC-0110-S	495	1.313	0.663	4.1	2.9430	0.0000	SURCHARGED	009	MH-0111-S	3.6	0.643	0.198	0.2562	
720 minute winter	MH-0111-S	495	1.312	0.812	6.0	2.3254	0.0000	SURCHARGED	010	MH-0112-S	5.7	0.553	0.068	1.2446	
720 minute winter	MH-0112-S	495	1.311	0.961	6.6	40.7212	0.0000	SURCHARGED	011	MH-0113-S	4.5	0.490	0.048	0.6850	
720 minute winter	MH-0113-S	495	1.311	1.031	7.0	6.9782	0.0000	SURCHARGED	013	MH-0106-S	5.3	0.466	0.058	0.6348	
720 minute winter	MH-0114-S	495	1.311	0.931	2.0	6.9769	0.0000	SURCHARGED	012	MH-0113-S	1.9	0.228	0.025	1.5089	
720 minute winter	MH-0115-S	495	1.311	1.151	4.6	1.3015	0.0000	FLOOD RISK	Hydro-Brake®	DUMMY	4.5				
720 minute winter	DITCH	495	0.119	0.049	4.5	0.0000	0.0000	OK							
720 minute winter	DUMMY	495	0.201	0.051	4.5	0.0574	0.0000	OK	017	DITCH	4.5	0.591	0.060	0.1306	182.7

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Results for 100 year +40% 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	IC-0101-S	600	1.132	0.032	0.9	0.1054	0.0000	OK	001	IC-0102-S	0.9	0.456	0.049	0.1427	
960 minute summer	IC-0102-S	600	1.132	0.182	1.4	0.5448	0.0000	SURCHARGED	002	IC-0103-S	1.4	0.544	0.078	0.2583	
960 minute summer	IC-0103-S	600	1.132	0.332	1.9	0.0965	0.0000	SURCHARGED	016	MH-0111-S	1.9	0.604	0.104	0.3560	
960 minute summer	MH-0106-S	600	1.131	0.911	5.0	1.0300	0.0000	SURCHARGED	014	MH-0115-S	4.2	0.177	0.057	0.9471	
960 minute summer	IC-0107-S	495	1.233	0.033	1.9	0.2240	0.0000	OK	006	IC-0108-S	1.9	0.604	0.107	0.0874	
960 minute summer	IC-0108-S	600	1.134	0.084	2.8	0.1594	0.0000	OK	007	IC-0109-S	2.8	0.727	0.133	0.1478	
960 minute summer	IC-0109-S	600	1.134	0.234	3.7	0.5202	0.0000	SURCHARGED	008	IC-0110-S	3.7	0.761	0.189	0.3617	
960 minute summer	IC-0110-S	600	1.133	0.483	4.2	2.1406	0.0000	SURCHARGED	009	MH-0111-S	3.7	0.656	0.206	0.2562	
960 minute summer	MH-0111-S	600	1.131	0.631	6.2	1.8083	0.0000	SURCHARGED	010	MH-0112-S	5.8	0.553	0.069	1.2446	
960 minute summer	MH-0112-S	600	1.131	0.781	6.7	32.6352	0.0000	SURCHARGED	011	MH-0113-S	3.7	0.490	0.039	0.6850	
960 minute summer	MH-0113-S	600	1.131	0.851	5.7	5.7573	0.0000	SURCHARGED	013	MH-0106-S	5.0	0.464	0.056	0.6348	
960 minute summer	MH-0114-S	600	1.131	0.751	2.1	5.6252	0.0000	SURCHARGED	012	MH-0113-S	1.4	0.210	0.018	1.5089	
960 minute summer	MH-0115-S	600	1.130	0.970	4.2	1.0975	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.2				
960 minute summer	DITCH	600	0.117	0.047	4.2	0.0000	0.0000	OK							
960 minute summer	DUMMY	600	0.199	0.049	4.2	0.0551	0.0000	OK	017	DITCH	4.2	0.577	0.055	0.1232	170.5

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Results for 100 year +40% 960 minute winter. 1200 minute analysis at 15 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	IC-0101-S	645	1.173	0.073	0.7	0.2435	0.0000	OK	001	IC-0102-S	0.7	0.437	0.038	0.1837	
960 minute winter	IC-0102-S	645	1.173	0.223	1.0	0.6697	0.0000	SURCHARGED	002	IC-0103-S	1.0	0.486	0.056	0.2583	
960 minute winter	IC-0103-S	645	1.173	0.373	1.4	0.1086	0.0000	SURCHARGED	016	MH-0111-S	1.4	0.563	0.077	0.3560	
960 minute winter	MH-0106-S	645	1.172	0.952	4.3	1.0771	0.0000	SURCHARGED	014	MH-0115-S	4.3	0.170	0.058	0.9471	
960 minute winter	IC-0107-S	480	1.228	0.028	1.4	0.1919	0.0000	OK	006	IC-0108-S	1.4	0.554	0.079	0.1307	
960 minute winter	IC-0108-S	630	1.176	0.126	2.1	0.2387	0.0000	OK	007	IC-0109-S	2.1	0.671	0.099	0.1777	
960 minute winter	IC-0109-S	630	1.176	0.276	2.8	0.6129	0.0000	SURCHARGED	008	IC-0110-S	2.8	0.703	0.143	0.3617	
960 minute winter	IC-0110-S	645	1.174	0.524	3.2	2.3253	0.0000	SURCHARGED	009	MH-0111-S	2.9	0.614	0.159	0.2562	
960 minute winter	MH-0111-S	645	1.173	0.673	4.9	1.9276	0.0000	SURCHARGED	010	MH-0112-S	4.6	0.553	0.055	1.2446	
960 minute winter	MH-0112-S	645	1.173	0.823	5.3	34.5013	0.0000	SURCHARGED	011	MH-0113-S	4.4	0.476	0.047	0.6850	
960 minute winter	MH-0113-S	645	1.173	0.893	6.7	6.0391	0.0000	SURCHARGED	013	MH-0106-S	4.3	0.464	0.047	0.6348	
960 minute winter	MH-0114-S	645	1.173	0.793	1.6	5.9372	0.0000	SURCHARGED	012	MH-0113-S	1.8	0.180	0.024	1.5089	
960 minute winter	MH-0115-S	645	1.172	1.012	4.3	1.1446	0.0000	SURCHARGED	Hydro-Brake®	DUMMY	4.3				
960 minute winter	DITCH	645	0.118	0.048	4.3	0.0000	0.0000	OK							
960 minute winter	DUMMY	645	0.199	0.049	4.3	0.0556	0.0000	OK	017	DITCH	4.3	0.581	0.056	0.1250	191.9

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Results for 100 year +40% 1440 minute summer. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	IC-0101-S	750	1.119	0.019	0.6	0.0617	0.0000	OK	001	IC-0102-S	0.6	0.410	0.033	0.0206	
1440 minute summer	IC-0102-S	750	0.973	0.023	0.9	0.0685	0.0000	OK	002	IC-0103-S	0.9	0.467	0.050	0.1358	
1440 minute summer	IC-0103-S	870	0.947	0.147	1.3	0.0429	0.0000	OK	016	MH-0111-S	1.3	0.562	0.072	0.3553	
1440 minute summer	MH-0106-S	870	0.947	0.727	3.8	0.8219	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.168	0.051	0.9471	
1440 minute summer	IC-0107-S	750	1.228	0.028	1.3	0.1852	0.0000	OK	006	IC-0108-S	1.3	0.547	0.073	0.0358	
1440 minute summer	IC-0108-S	750	1.080	0.030	1.9	0.0576	0.0000	OK	007	IC-0109-S	1.9	0.655	0.090	0.0347	
1440 minute summer	IC-0109-S	870	0.949	0.049	2.5	0.1092	0.0000	OK	008	IC-0110-S	2.5	0.703	0.128	0.2322	
1440 minute summer	IC-0110-S	870	0.948	0.298	2.9	1.3230	0.0000	SURCHARGED	009	MH-0111-S	2.9	0.582	0.159	0.2562	
1440 minute summer	MH-0111-S	870	0.947	0.447	4.8	1.2809	0.0000	SURCHARGED	010	MH-0112-S	4.3	0.550	0.051	1.2446	
1440 minute summer	MH-0112-S	870	0.947	0.597	4.9	24.3871	0.0000	SURCHARGED	011	MH-0113-S	3.0	0.451	0.032	0.6850	
1440 minute summer	MH-0113-S	870	0.947	0.667	4.8	4.5121	0.0000	SURCHARGED	013	MH-0106-S	3.8	0.452	0.042	0.6348	
1440 minute summer	MH-0114-S	870	0.947	0.567	1.6	4.2465	0.0000	SURCHARGED	012	MH-0113-S	1.1	0.168	0.015	1.5089	
1440 minute summer	MH-0115-S	870	0.946	0.786	3.8	0.8895	0.0000	OK	Hydro-Brake®	DUMMY	3.8				
1440 minute summer	DITCH	870	0.115	0.045	3.8	0.0000	0.0000	OK							
1440 minute summer	DUMMY	870	0.196	0.046	3.8	0.0524	0.0000	OK	017	DITCH	3.8	0.561	0.050	0.1146	179.2

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Results for 100 year +40% 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 100.00%

Event	US Node ID	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status	Link ID	DS Node ID	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	IC-0101-S	720	1.117	0.017	0.5	0.0567	0.0000	OK	001	IC-0102-S	0.5	0.398	0.027	0.0177	
1440 minute winter	IC-0102-S	720	0.970	0.020	0.7	0.0607	0.0000	OK	002	IC-0103-S	0.7	0.436	0.039	0.1373	
1440 minute winter	IC-0103-S	900	0.948	0.148	1.0	0.0432	0.0000	OK	016	MH-0111-S	1.0	0.515	0.055	0.3558	
1440 minute winter	MH-0106-S	900	0.948	0.728	3.8	0.8230	0.0000	SURCHARGED	014	MH-0115-S	3.8	0.168	0.051	0.9471	
1440 minute winter	IC-0107-S	750	1.224	0.024	1.0	0.1629	0.0000	OK	006	IC-0108-S	1.0	0.502	0.056	0.0300	
1440 minute winter	IC-0108-S	750	1.077	0.027	1.5	0.0513	0.0000	OK	007	IC-0109-S	1.5	0.609	0.071	0.0362	
1440 minute winter	IC-0109-S	900	0.950	0.050	2.0	0.1119	0.0000	OK	008	IC-0110-S	2.0	0.652	0.102	0.2340	
1440 minute winter	IC-0110-S	900	0.949	0.299	2.3	1.3279	0.0000	SURCHARGED	009	MH-0111-S	2.2	0.569	0.121	0.2562	
1440 minute winter	MH-0111-S	900	0.948	0.448	3.7	1.2837	0.0000	SURCHARGED	010	MH-0112-S	3.4	0.528	0.041	1.2446	
1440 minute winter	MH-0112-S	900	0.948	0.598	3.9	24.4310	0.0000	SURCHARGED	011	MH-0113-S	3.0	0.446	0.032	0.6850	
1440 minute winter	MH-0113-S	900	0.948	0.668	4.5	4.5187	0.0000	SURCHARGED	013	MH-0106-S	3.8	0.456	0.042	0.6348	
1440 minute winter	MH-0114-S	900	0.948	0.568	1.3	4.2538	0.0000	SURCHARGED	012	MH-0113-S	1.0	0.190	0.014	1.5089	
1440 minute winter	MH-0115-S	900	0.947	0.787	3.8	0.8906	0.0000	OK	Hydro-Brake®	DUMMY	3.8				
1440 minute winter	DITCH	900	0.115	0.045	3.8	0.0000	0.0000	OK							
1440 minute winter	DUMMY	900	0.196	0.046	3.8	0.0524	0.0000	OK	017	DITCH	3.8	0.562	0.050	0.1147	199.1

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Adoptable						
Max Width (mm)	**Diameter (mm)**	**Width (mm)**		**Max Depth (m)**	**Diameter (mm)**	**Width (mm)**
374	1200			1.500	1050	
499	1350			99.999	1200	
749	1500					
900	1800					
>900	Link+900 mm					

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Circular						
Shape	Circular		**Dia (mm)**			
Barrels	1		100			
Height (mm)			150			
Width (mm)						
Side Slope (1:X)						
Auto Increment (mm)	75					
Preferred Cover (m)						
Steep Slope (1:X)						
Follow Ground	x					
Velocity	Default					
ks (mm) / n						

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Technical Specification

Control Point	Head (m)	Flow (l/s)
Primary Design	0.300	2.500
Flush-Flo™	0.124	2.500
Kick-Flo®	0.234	2.235
Mean Flow		1.984

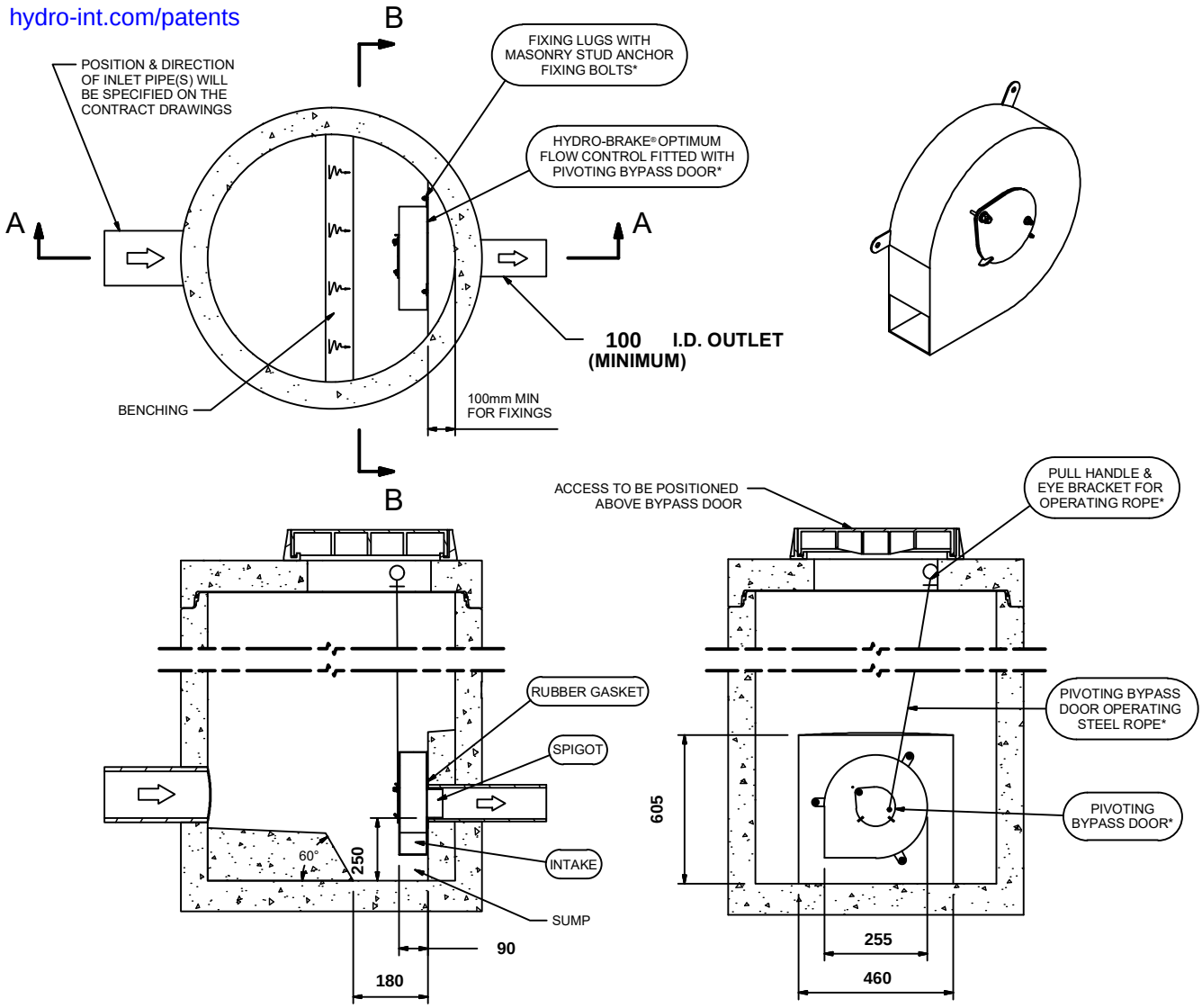
Hydro-Brake® Optimum Flow Control including:

- 3 mm grade 304L stainless steel
- Integral stainless steel pivoting by-pass door allowing clear line of sight through to outlet, c/w stainless steel operating rope
- Beed blasted finish to maximise corrosion resistance
- Stainless steel fixings
- Rubber gasket to seal outlet

BBA APPROVAL INSPECTION TESTING CERTIFICATION CERTIFICATE 08/4596

WRc Approved PT/329/0412

hydro-int.com/patents



SECTION A-A

SECTION B-B

IMPORTANT: (oval) LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS
* WHERE SUPPLIED
HYDRO-BRAKE® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY HYDRO INTERNATIONAL

THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.

DESIGN ADVICE

The head/flow characteristics of this SHE-0085-2500-0300-2500 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.
The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

Hydro International®

DATE	5/27/2021 2:51 PM
SITE	Chapelgate
DESIGNER	Androniki Tourliadou
REF	21138

SHE-0085-2500-0300-2500
Hydro-Brake® Optimum

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niki@parsonsengineers.co.uk

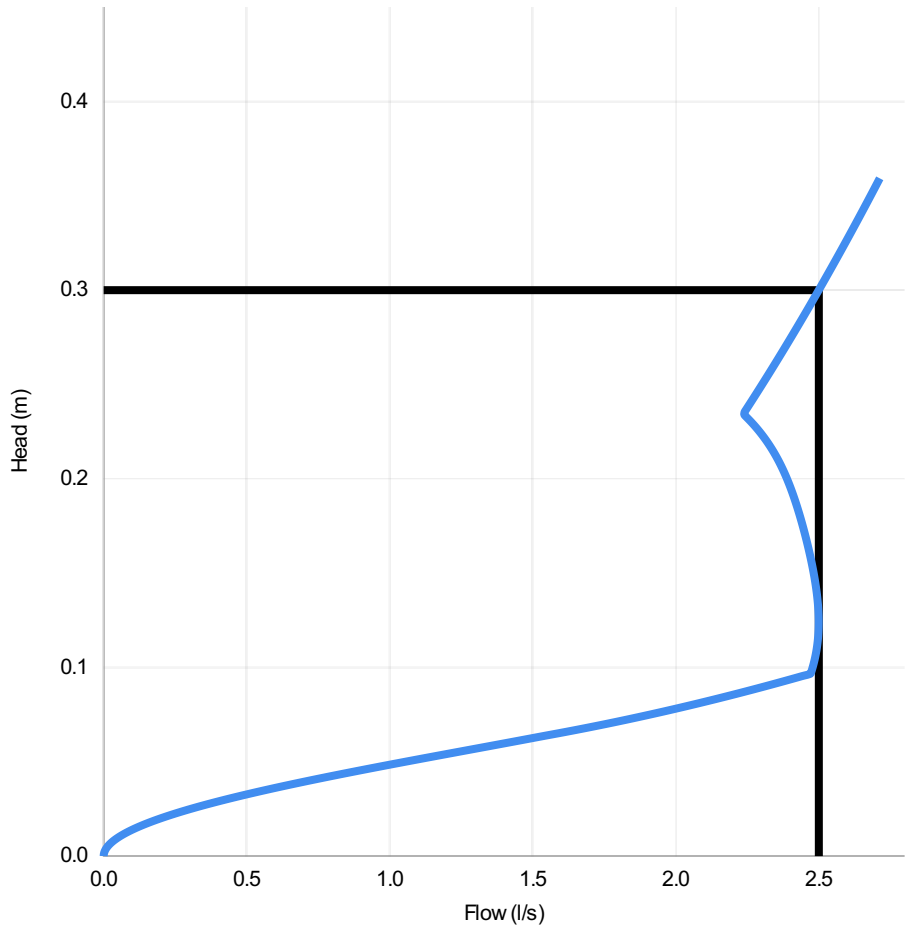
Technical Specification

Control Point	Head (m)	Flow (l/s)
Primary Design	0.300	2.500
Flush-Flo	0.124	2.500
Kick-Flo®	0.234	2.235
Mean Flow		1.984

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE No 08/4596

WRc APPROVED
PT/329/0412

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Head (m)	Flow (l/s)
0.000	0.000
0.010	0.055
0.021	0.212
0.031	0.454
0.041	0.762
0.052	1.114
0.062	1.482
0.072	1.831
0.083	2.127
0.093	2.387
0.103	2.484
0.114	2.496
0.124	2.500
0.134	2.496
0.145	2.488
0.155	2.475
0.166	2.460
0.176	2.442
0.186	2.422
0.197	2.398
0.207	2.368
0.217	2.330
0.228	2.279
0.238	2.251
0.248	2.295
0.259	2.337
0.269	2.379
0.279	2.420
0.290	2.460
0.300	2.500

DESIGN ADVICE

The head/flow characteristics of this SHE-0085-2500-0300-2500 Hydro-Brake Optimum® Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.

! **The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.**

Hydro International®

DATE	27/05/2021 14:51
Site	Chapelgate
DESIGNER	Androniki Tourliadou
Ref	21138

SHE-0085-2500-0300-2500

Hydro-Brake Optimum®

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Project Title

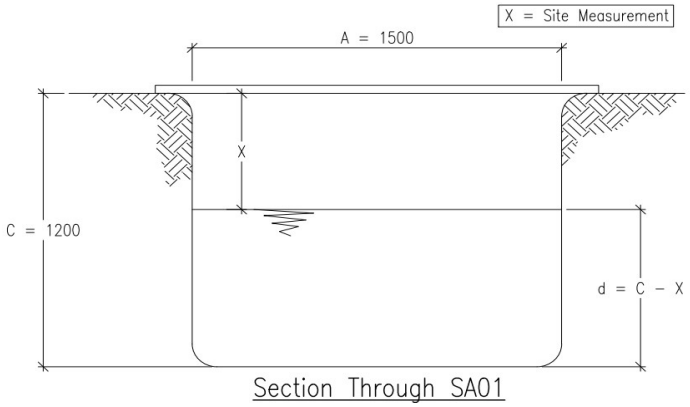
Proposed Residential Development
Land off Chapelgate, Sutton St James

Project No. 21-117

Site Visit Date 17/05/2021

Soak-Away Test SA 01

SA01	
TIME (Mins)	DEPTH mm (d)
0	690
15	675
30	674
45	674
80	674
110	674
140	674
170	670
200	666



Section Through SA01

Trial Pit Dimensions		
A =	1.5	m
B =	0.6	m
C =	1.20	m

Plan Area of Trial Pit		
SA01 =	0.9	m^2
Total Volume =	0.022	m^3
75% Volume =	0.016	m^3
25%Volume =	0.005	m^3

Time Taken From 75% Volume to 25% Volume	
125	Mins

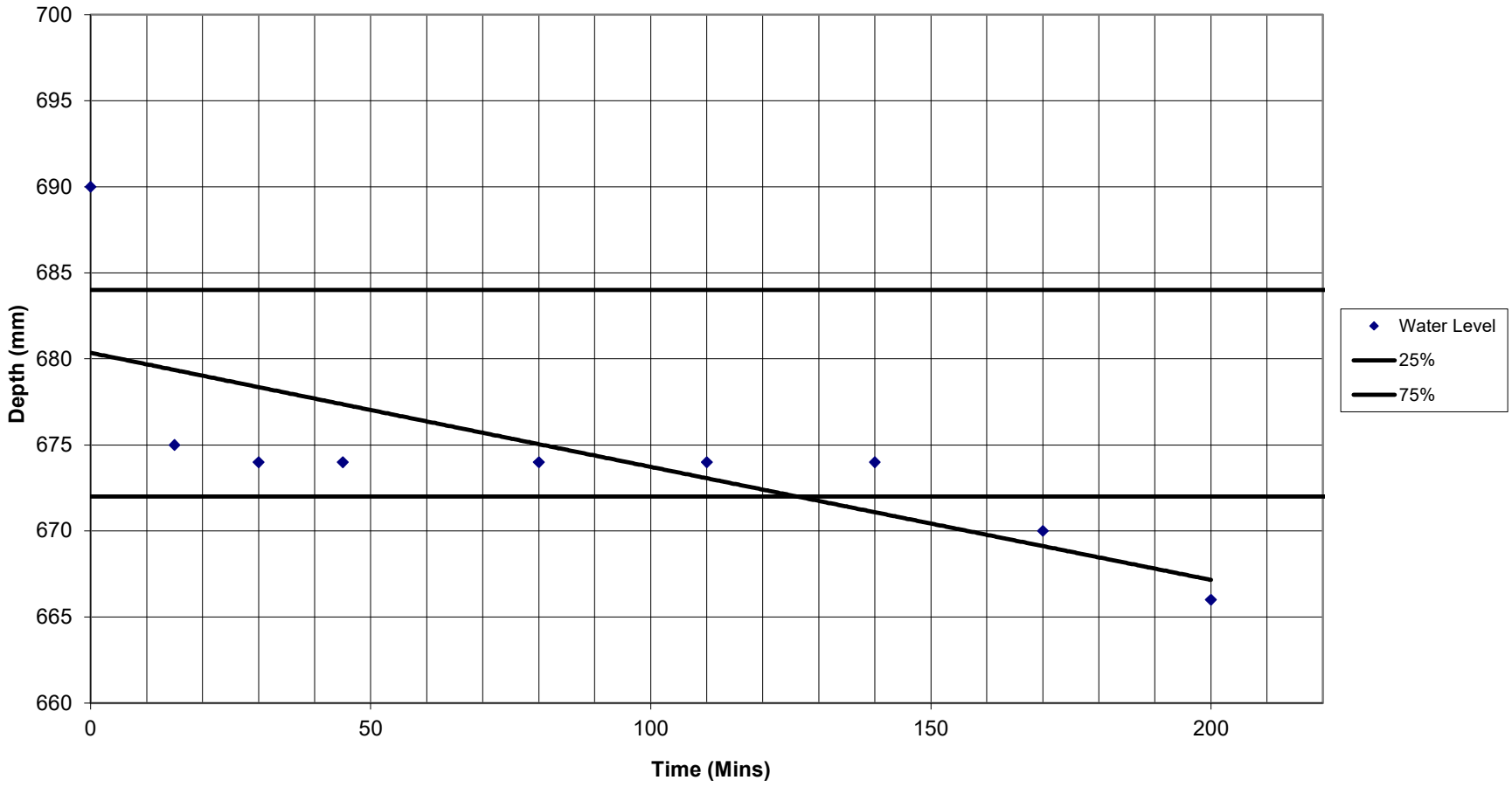
Effective Depth From 75% Volume to 25% Volume
0.012 m

50% Effective Internal Surface Area Including Base Area
0.9504 m^2

Soil Infiltration Rate, f
1.51515E-06 m/s
0.005454545 m/h

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Project No. 21-117 17/05/2021
Plot showing water level aginst time for SA01



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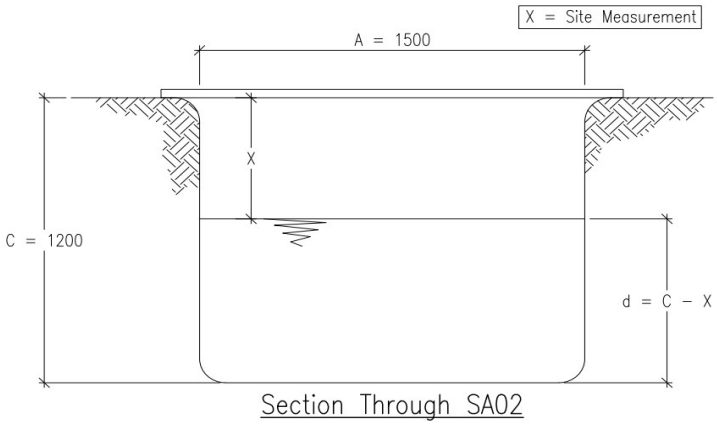
Proposed Residential Development
Land off Chapelgate, Sutton St James

Project No. 21-117

Site Visit Date 17/05/2021

Soak-Away Test SA 02

SA01	
TIME (Mins)	DEPTH mm (d)
0	685
15	685
30	679
45	678
75	678
105	675
135	671
165	668
195	666



Section Through SA02

Trial Pit Dimensions		
A =	1.5	m
B =	0.6	m
C =	1.20	m

Plan Area of Trial Pit		
SA01 =	0.9	m^2
Total Volume =	0.017	m^3
75% Volume =	0.013	m^3
25%Volume =	0.004	m^3

Time Taken From 75% Volume to 25% Volume	
97	Mins

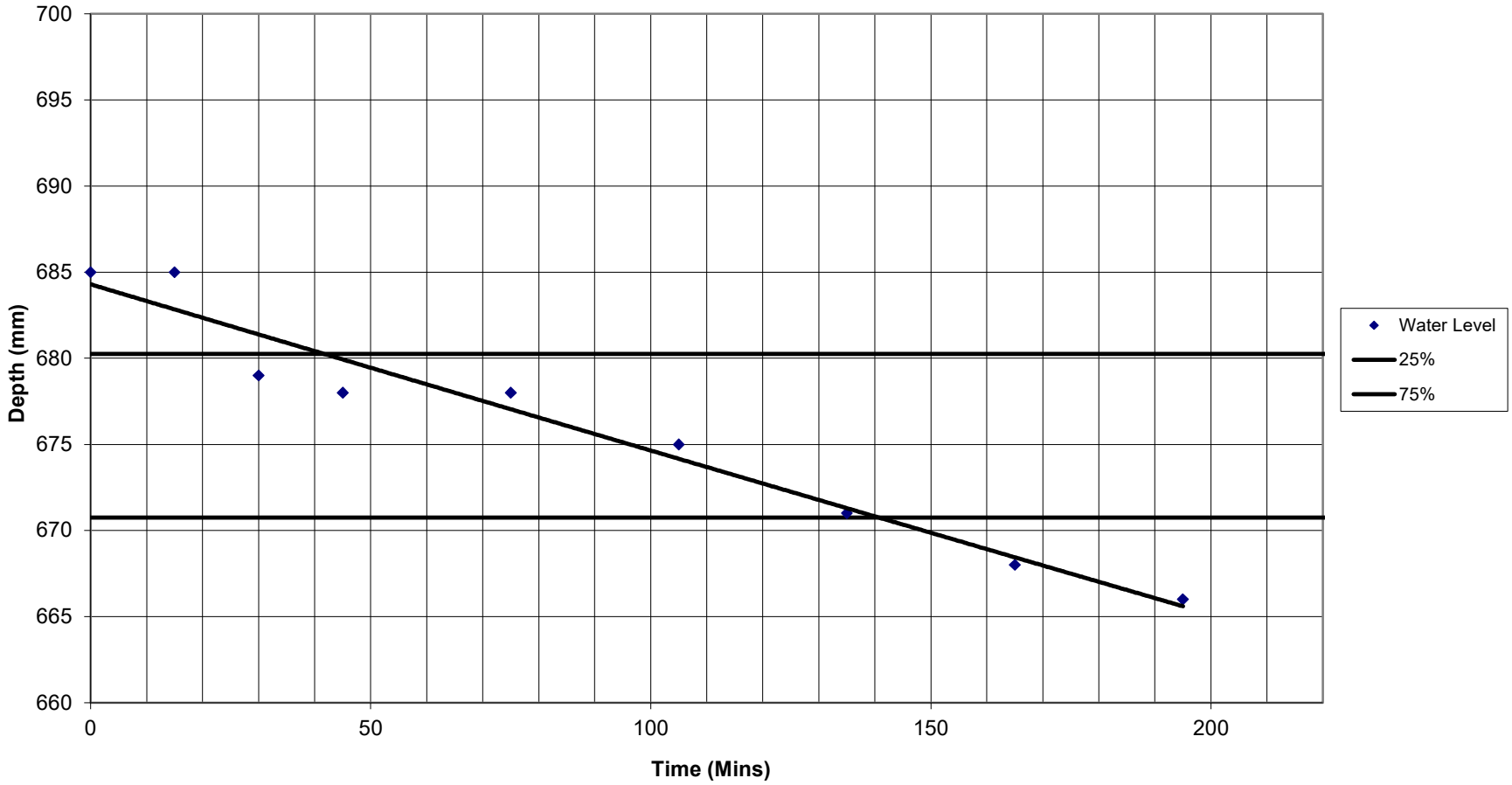
Effective Depth From 75% Volume to 25% Volume
0.0095 m

50% Effective Internal Surface Area Including Base Area
0.9399 m^2

Soil Infiltration Rate, f
1.56301E-06 m/s
0.005626832 m/h

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Proposed Drainage Design At Chapelgate, Sutton St James.
Project No. 21-117 17/05/2021
Plot showing water level aginst time for SA02



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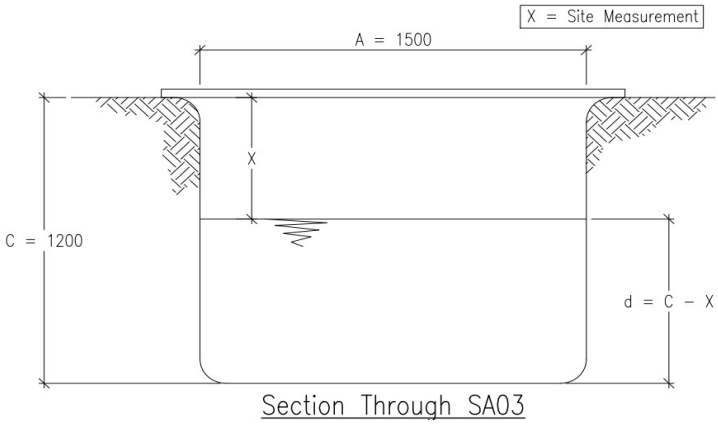
Proposed Residential Development
Land off Chapelgate, Sutton St James

Soak-Away Test SA 03

Project No. 21-117

Site Visit Date 17/05/2021

SA01	
TIME (Mins)	DEPTH mm (d)
0	680
15	680
30	680
45	675
80	660
110	658
140	650
170	648
200	645



Section Through SA03

Trial Pit Dimensions		
A =	1.5	m
B =	0.6	m
C =	1.20	m

Plan Area of Trial Pit		
SA01 =	0.9	m^2
Total Volume =	0.032	m^3
75% Volume =	0.024	m^3
25%Volume =	0.008	m^3

Time Taken From 75% Volume to 25% Volume	
85	Mins

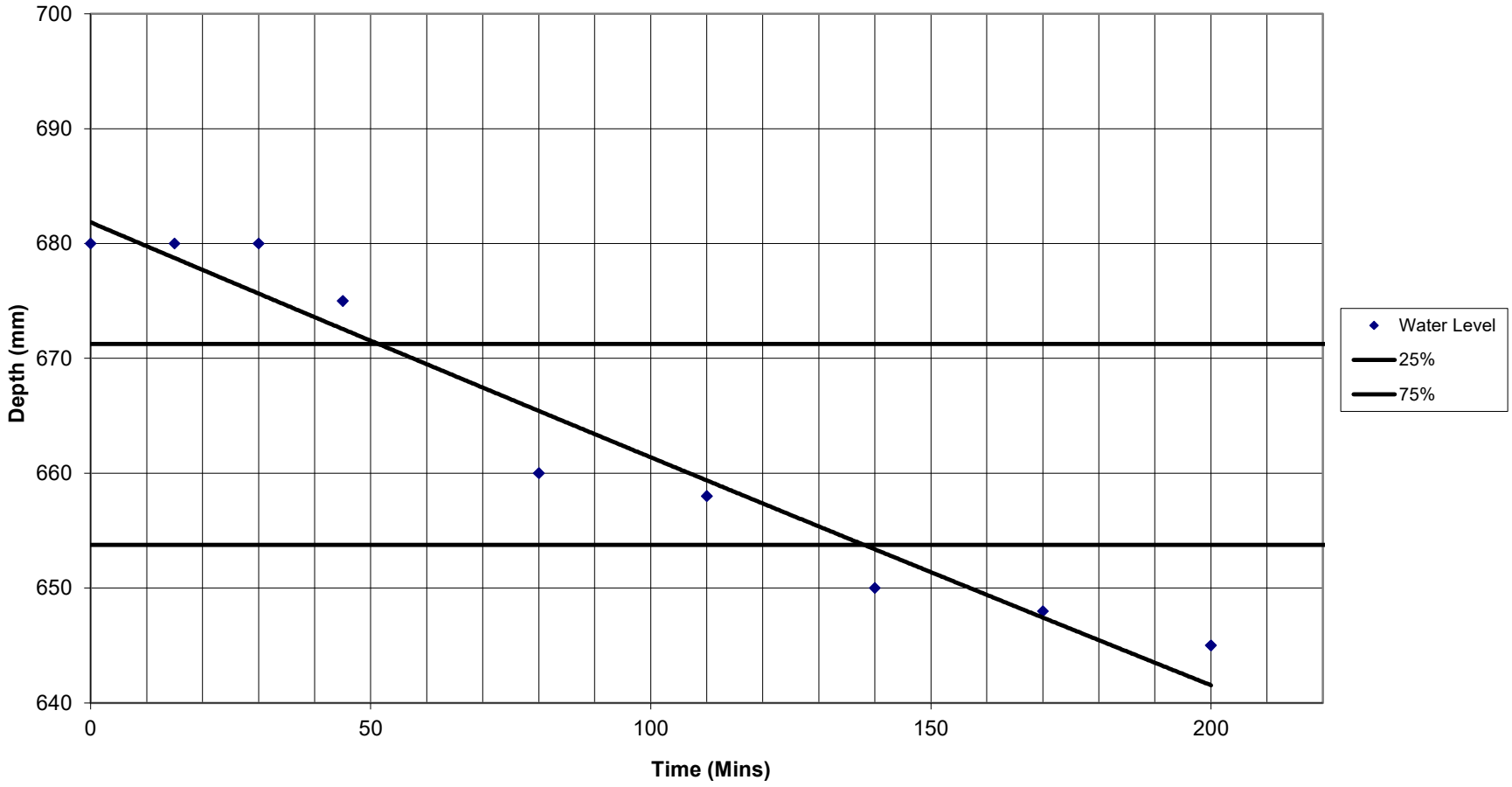
Effective Depth From 75% Volume to 25% Volume
0.0175 m

50% Effective Internal Surface Area Including Base Area
0.9735 m^2

Soil Infiltration Rate, f
3.1723E-06 m/s
0.011420285 m/h

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Project No. 21-117 17/05/2021
Plot showing water level aginst time for SA03



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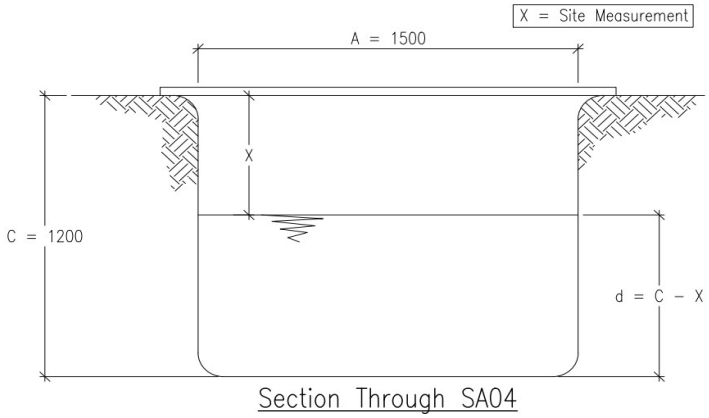
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Land off Chapelgate, Sutton St James

Project No. 21-117

Site Visit Date 17/05/2021

Soak-Away Test SA 04

SA01	
TIME (Mins)	DEPTH mm (d)
0	685
15	682
30	682
45	677
60	672
90	668
120	660
150	652
180	646



Section Through SA04

Trial Pit Dimensions		
A =	1.5	m
B =	0.6	m
C =	1.20	m

Plan Area of Trial Pit		
SA01 =	0.9	m^2
Total Volume =	0.035	m^3
75% Volume =	0.026	m^3
25%Volume =	0.009	m^3

Time Taken From 75% Volume to 25% Volume	
86	Mins

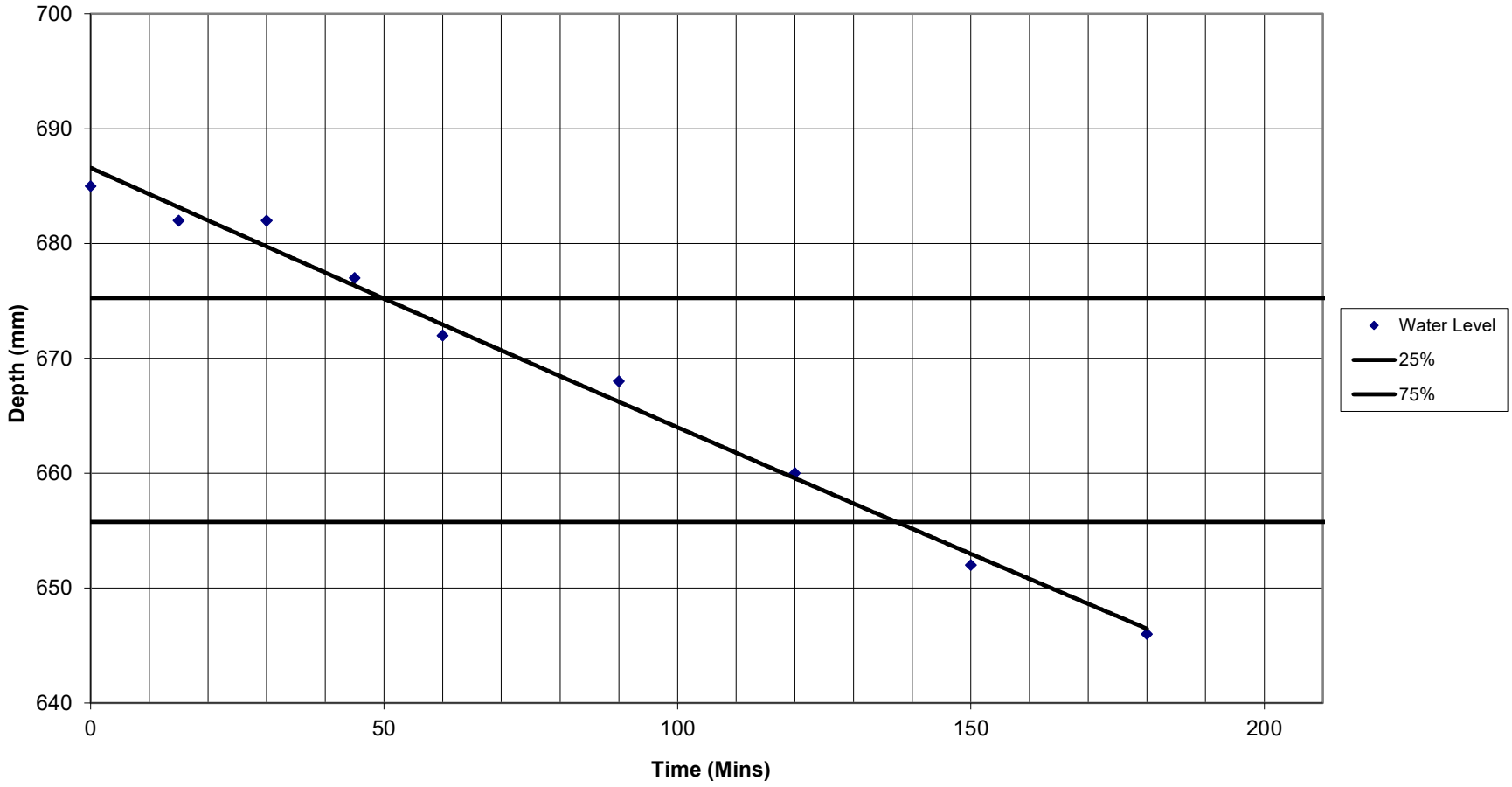
Effective Depth From 75% Volume to 25% Volume
0.0195 m

50% Effective Internal Surface Area Including Base Area
0.9819 m^2

Soil Infiltration Rate, f
3.46386E-06 m/s
0.012469891 m/h

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Project No. 21-117 17/05/2021
Plot showing water level aginst time for SA04



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Job Details SW21-117 - Residential Development, Sutton St James

Title Example Soakaway sizing calculation

Calculated Infiltration Rate (m/s)
0.0000015

Design Rainfall - R	
M5-240	Z1
0.02	1.48
M10-D	Z2
0.0296	1.24

R = 0.036704 m

Inflow To Soakaway

Area (m^2)	x R
140	0.036704

Inflow = 5.13856 m^3

Soakaway Dimensions

Polystorm crates		Number	Total Lengths	Half Effective
Width	0.5	6	3	
Length	1	6	6	
Depth	0.4	1	0.4	0.2

Internal Surface Area Not Including Base (50% depth)
21.6 m^2

Storage Volume
7.2 m^3

Outflow From Soakaway

Internal SA (50%)	Infiltration Rate	Storm Duration (s)		
21.6	0.0000015	60	60	3600

Outflow = 0.11664 m^3

Storage Required

Inflow -	Outflow	
5.13856	0.11664	5.02192

Storage Volume With 30% Free (Required)
6.528496

Actual Storage Volume
7.2

Soakaway Has Been Designed For A
10 Year Storm Of 240 Minute Duration

Half drain time = 22.0 OK

NB. Actual Storage Volume Needs To Be
Greater Than Storage Volume + 30%