

Drainage Design Report

Flow+

v7.0

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Network	Storm Network
Filename	Z:\Project\FW1733 2019 Kaplan-Station Road, Long Sutton\03 Design\03-03 Drainage\Hydraulic Modelling\FW1733 SW Network.pfd
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Rainfall Methodology	FEH-99
Return Period (years)	2
Additional Flow (%)	0
C (1km)	-0.021
D1 (1km)	0.343
D2 (1km)	0.266
D3 (1km)	0.196
E (1km)	0.310
F (1km)	2.502
CV	0.750
Time of Entry (mins)	4.00
Maximum Time of Concentration (mins)	30.00
Maximum Rainfall (mm/hr)	50.0
Minimum Velocity (m/s)	1.00
Connection Type	Level Soffits
Minimum Backdrop Height (m)	0.000
Preferred Cover Depth (m)	1.200
Enforce best practice design rules	

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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
	1.000	PCP1	S1L	0.770	6.1	6.2	0.859	0.889	0.859	0.889	0.046	0.0			
	1.001	S1L	S1	0.827	14.6	6.2	0.900	0.907	0.900	0.907	0.046	0.0			
	1.002	S1	S3	1.082	305.9	8.3	0.907	0.935	0.907	0.935	0.061	0.0			
	2.000	PCP2	S2L	0.771	6.1	2.7	0.820	0.902	0.820	0.902	0.020	0.0			
	2.001	S2L	S2	0.935	16.5	2.7	0.902	0.921	0.902	0.921	0.020	0.0			
	2.002	S2	S3	1.082	305.9	4.3	0.921	0.935	0.921	0.935	0.032	0.0			
	1.003	S3	S4	1.014	447.9	16.0	0.936	1.059	0.936	1.059	0.118	0.0			
	1.004	S4	S5	1.014	447.9	16.0	1.059	1.154	1.059	1.154	0.118	0.0			
	3.000	S5LA	S5	2.453	43.3	8.4	0.982	1.161	0.982	1.161	0.062	0.0			
	4.000	PCP3	S5LB	1.012	17.9	10.4	1.054	1.035	1.035	1.054	0.077	0.0			
	4.001	S5LB	S5	1.255	22.2	10.4	1.035	1.154	1.035	1.154	0.077	0.0			
	1.005	S5	S6	1.014	447.9	35.5	1.154	1.029	1.029	1.154	0.262	0.0			
	1.006	S6	S7	1.014	447.9	41.5	1.029	0.764	0.764	1.029	0.306	0.0			
	5.000	PCP4	S7LA	1.006	17.8	9.1	0.644	0.846	0.644	0.846	0.067	0.0			
	5.001	S7LA	S7	1.402	24.8	9.1	0.846	0.764	0.764	0.846	0.067	0.0			
	6.000	PCP5	S7LB	1.018	18.0	9.4	0.689	0.889	0.689	0.889	0.069	0.0			
	6.001	S7LB	S7	1.352	23.9	9.4	0.889	0.764	0.764	0.889	0.069	0.0			
	1.007	S7	Basin	1.014	447.9	59.9	0.764	0.774	0.764	0.774	0.442	0.0			
	1.008	Basin	S8	1.014	447.9	59.9	0.785	0.594	0.594	0.785	0.442	0.0			
	1.009	S8	MH8951	1.017	40.4	62.6	1.119	1.076	1.076	1.119	0.462	0.0			Locked

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Rainfall Methodology	FEH-99		Return Period (years)	Climate Change (%)
C (1km)	-0.021		2	0
D1 (1km)	0.343		30	0
D2 (1km)	0.266		100	30
D3 (1km)	0.196			
E (1km)	0.310			
F (1km)	2.502			
Summer CV	0.750			
Winter CV	0.840			
Analysis Speed	Detailed			
Drain Down Time (mins)	240			
Additional Storage (m³/ha)	0.0			
Storm Durations (mins)	15			
	30			
	60			
	120			
	180			
	240			
	360			
	480			
	600			
	720			
	960			
	1440			
Check Discharge Rate(s)				
1 year (l/s)	5.0			
30 year (l/s)	5.0			
100 year (l/s)	5.0			
Check Discharge Volume				
100 year 360 minute (m³)				

Site Makeup	Greenfield
Greenfield Method	IH124
Positively Drained Area (ha)	
SAAR (mm)	
Soil Index	1
SPR	0.10
Region	1
Growth Factor 1 year	0.85
Growth Factor 30 years	1.95
Growth Factor 100 years	2.48
Betterment (%)	0
QBar	
Q 1 year (l/s)	
Q 30 year (l/s)	
Q 100 year (l/s)	

Orifice													
Node	Flap Valve	Online / Offline	Downstream Link	Replaces Downstream Link	Loop to Node	Invert Level (m)	Design Depth (m)	Design Flow (l/s)	Diameter (m)	Discharge Coefficient			
S1L	x	Online				2.650				0.050	0.600		
S2L	x	Online				2.668				0.035	0.600		
S5LB	x	Online				2.665				0.090	0.600		
S7LA	x	Online				2.554				0.090	0.600		
S7LB	x	Online				2.561				0.090	0.600		
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)
S8	x	Online				1.826	1.325	5.0(HE)	Minimise upstream storage		CTL-SHE-0101-5000-1325-5000	0.150	1200

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)		
Basin	0.00000	0.00558	2.0	1.00	1.840		0.000	88.4	88.4		
							1.356	298.7	298.7		
Carpark											
Node	Base Inf Coefficient (m/hr)	Side Inf Coefficient (m/hr)	Safety Factor	Porosity	Invert Level (m)	Time to half empty (mins)	Width (m)	Length (m)	Slope (1:X)	Depth (m)	Inf Depth (m)
PCP1	0.00000	0.00558	2.0	0.30	3.035	37	5.800	16.800	100.0	0.500	
PCP2	0.00000	0.00558	2.0	0.33	3.035	21	5.800	16.800	100.0	0.300	
PCP3	0.00000	0.00558	2.0	0.30	3.235	14	5.900	32.000	100.0	0.500	
PCP4	0.00000	0.00558	2.0	0.30	2.735	16	4.800	31.250	100.0	0.600	
PCP5	0.00000	0.00558	2.0	0.30	2.835	18	4.800	37.500	100.0	0.500	

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							

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	



100 year 360 minute (m³)	
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Results for 30 year Critical Storm Duration. Lowest 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)
15 minute winter	PCP1	15	3.298	0.557	21.2	5.3863	0.0000	SURCHARGED	1.000	S1L	5.5	0.708	0.915	0.0234	
									Infiltration		0.0				
15 minute winter	S1L	15	3.276	0.626	5.5	0.7081	0.0000	SURCHARGED	Orifice	S1	4.0				
240 minute winter	S1	232	2.466	0.309	4.3	0.5454	0.0000	OK	1.002	S3	4.0	0.453	0.013	0.9261	
15 minute winter	PCP2	15	3.175	0.395	9.2	1.9996	0.0000	SURCHARGED	2.000	S2L	3.5	0.638	0.579	0.0482	
									Infiltration		0.0				
15 minute winter	S2L	15	3.168	0.500	3.5	0.5655	0.0000	SURCHARGED	Orifice	S2	1.8				
240 minute winter	S2	232	2.466	0.305	2.3	0.5383	0.0000	OK	2.002	S3	2.1	0.359	0.007	1.2193	
240 minute winter	S3	232	2.466	0.472	7.9	1.2003	0.0000	OK	1.003	S4	6.7	0.295	0.015	5.3979	
240 minute winter	S4	232	2.466	0.496	6.7	1.2614	0.0000	OK	1.004	S5	5.1	0.208	0.011	5.9957	
15 minute summer	S5LA	10	2.908	0.110	28.5	0.1247	0.0000	OK	3.000	S5	28.5	2.298	0.658	0.0547	
15 minute winter	PCP3	13	3.475	0.779	35.4	5.3129	0.0000	SURCHARGED	4.000	S5LB	16.0	0.909	0.894	0.0537	
									Infiltration		0.0				
15 minute winter	S5LB	13	3.436	0.771	16.0	0.8717	0.0000	SURCHARGED	Orifice	S5	14.4				
240 minute winter	S5	232	2.466	0.521	15.5	1.3251	0.0000	OK	1.005	S6	13.3	0.326	0.030	10.2253	
240 minute winter	S6	232	2.466	0.561	16.5	1.4269	0.0000	OK	1.006	S7	13.8	0.292	0.031	11.4894	
15 minute winter	PCP4	14	3.027	0.321	30.8	6.2277	0.0000	SURCHARGED	5.000	S7LA	10.3	0.803	0.581	0.2671	
									Infiltration		0.0				
15 minute winter	S7LA	14	2.964	0.410	10.3	0.4642	0.0000	SURCHARGED	Orifice	S7	10.2				
15 minute winter	PCP5	13	3.115	0.454	31.8	5.8019	0.0000	SURCHARGED	6.000	S7LB	11.5	0.776	0.642	0.1716	
									Infiltration		0.0				
15 minute winter	S7LB	14	3.061	0.500	11.5	0.5661	0.0000	SURCHARGED	Orifice	S7	11.4				
240 minute winter	S7	232	2.466	0.603	23.8	1.5338	0.0000	OK	1.007	Basin	21.9	0.467	0.049	3.5448	
240 minute winter	Basin	232	2.466	0.626	21.9	85.8440	0.0000	OK	1.008	S8	4.8	0.152	0.011	4.1716	
									Infiltration		0.1				
240 minute winter	S8	232	2.466	0.640	6.1	3.6628	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				127.7
15 minute summer	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% Critical Storm Duration. Lowest 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)
30 minute winter	PCP1	23	3.700	0.959	28.4	12.4550	0.6849	FLOOD	1.000	S1L	7.1	0.912	1.179	0.0234	
									Infiltration		0.0				
30 minute winter	S1L	26	3.665	1.015	7.1	1.1479	0.0000	FLOOD RISK	Orifice	S1	5.2				
480 minute winter	S1	456	3.027	0.870	4.6	1.5376	0.0000	SURCHARGED	1.002	S3	4.2	0.399	0.014	1.7436	
30 minute winter	PCP2	29	3.289	0.509	12.4	5.6063	0.0000	SURCHARGED	2.000	S2L	2.7	0.621	0.445	0.0482	
									Infiltration		0.0				
30 minute winter	S2L	29	3.280	0.612	2.7	0.6920	0.0000	SURCHARGED	Orifice	S2	2.0				
480 minute winter	S2	456	3.027	0.866	2.5	1.5305	0.0000	SURCHARGED	2.002	S3	2.1	0.360	0.007	2.3140	
480 minute winter	S3	456	3.027	1.033	8.3	2.6295	0.0000	SURCHARGED	1.003	S4	7.3	0.255	0.016	7.9151	
480 minute winter	S4	456	3.027	1.057	7.3	2.6905	0.0000	SURCHARGED	1.004	S5	7.0	0.189	0.016	8.3112	
15 minute winter	S5LA	10	3.396	0.598	56.0	0.6758	0.0000	SURCHARGED	3.000	S5	55.6	3.158	1.283	0.0779	
15 minute winter	PCP3	15	3.691	0.995	69.6	17.0533	0.0000	FLOOD RISK	4.000	S5LB	16.6	0.942	0.926	0.0537	
									Infiltration		0.0				
15 minute winter	S5LB	15	3.641	0.976	16.6	1.1043	0.0000	FLOOD RISK	Orifice	S5	16.3				
480 minute winter	S5	456	3.027	1.082	16.9	2.7542	0.0000	SURCHARGED	1.005	S6	16.5	0.309	0.037	13.2490	
480 minute winter	S6	456	3.027	1.122	19.6	2.8560	0.0000	SURCHARGED	1.006	S7	19.3	0.287	0.043	13.8101	
15 minute winter	PCP4	15	3.259	0.553	60.5	16.7113	0.0000	FLOOD RISK	5.000	S7LA	12.8	0.816	0.722	0.2671	
									Infiltration		0.0				
15 minute winter	S7LA	15	3.162	0.608	12.8	0.6880	0.0000	SURCHARGED	Orifice	S7	12.7				
15 minute winter	PCP5	15	3.325	0.664	62.3	16.5182	0.0000	FLOOD RISK	6.000	S7LB	13.7	0.779	0.762	0.1716	
									Infiltration		0.0				
15 minute winter	S7LB	15	3.248	0.687	13.7	0.7775	0.0000	SURCHARGED	Orifice	S7	13.6				
480 minute winter	S7	456	3.027	1.164	28.2	2.9629	0.0000	SURCHARGED	1.007	Basin	27.9	0.459	0.062	4.0764	
480 minute winter	Basin	456	3.027	1.187	27.9	214.5746	0.0000	SURCHARGED	1.008	S8	4.7	0.141	0.011	4.6332	
									Infiltration		0.1				
480 minute winter	S8	456	3.027	1.201	5.8	6.8780	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				185.9
15 minute summer	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

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	PCP1	12	3.106	0.365	7.6	0.5486	0.0000	SURCHARGED	1.000	S1L	5.3	0.676	0.874	0.0234	
									Infiltration		0.0				
15 minute summer	S1L	12	3.091	0.441	5.3	0.4987	0.0000	SURCHARGED	Orifice	S1	3.4				
15 minute summer	S1	10	2.213	0.056	5.7	0.0997	0.0000	OK	1.002	S3	5.7	0.495	0.019	0.0715	
15 minute summer	PCP2	12	2.993	0.213	3.3	0.0604	0.0000	SURCHARGED	2.000	S2L	2.5	0.589	0.412	0.0482	
									Infiltration		0.0				
15 minute summer	S2L	12	2.989	0.321	2.5	0.3629	0.0000	SURCHARGED	Orifice	S2	1.4				
15 minute summer	S2	10	2.204	0.043	3.2	0.0768	0.0000	OK	2.002	S3	3.2	0.422	0.010	0.0621	
15 minute summer	S3	11	2.093	0.099	12.9	0.2525	0.0000	OK	1.003	S4	11.9	0.374	0.027	0.6988	
15 minute summer	S4	11	2.087	0.117	11.9	0.2966	0.0000	OK	1.004	S5	11.6	0.291	0.026	0.9309	
15 minute summer	S5LA	10	2.854	0.056	10.3	0.0631	0.0000	OK	3.000	S5	10.3	1.862	0.238	0.0245	
15 minute summer	PCP3	11	3.117	0.421	12.7	0.1191	0.0000	SURCHARGED	4.000	S5LB	11.4	0.671	0.637	0.0537	
									Infiltration		0.0				
15 minute summer	S5LB	11	3.096	0.431	11.4	0.4880	0.0000	SURCHARGED	Orifice	S5	10.5				
15 minute summer	S5	11	2.083	0.138	31.0	0.3500	0.0000	OK	1.005	S6	30.2	0.521	0.067	1.7437	
15 minute summer	S6	12	2.052	0.147	36.2	0.3750	0.0000	OK	1.006	S7	34.4	0.536	0.077	2.0417	
15 minute summer	PCP4	11	2.820	0.114	11.1	0.5589	0.0000	OK	5.000	S7LA	7.9	0.632	0.446	0.2425	
									Infiltration		0.0				
15 minute summer	S7LA	12	2.796	0.242	7.9	0.2733	0.0000	SURCHARGED	Orifice	S7	7.5				
15 minute summer	PCP5	11	2.893	0.232	11.4	0.3108	0.0000	SURCHARGED	6.000	S7LB	9.5	0.664	0.529	0.1716	
									Infiltration		0.0				
15 minute summer	S7LB	11	2.862	0.301	9.5	0.3401	0.0000	SURCHARGED	Orifice	S7	8.6				
15 minute summer	S7	12	2.024	0.161	50.4	0.4099	0.0000	OK	1.007	Basin	50.6	0.830	0.113	0.6716	
15 minute summer	Basin	20	2.023	0.183	50.6	18.8785	0.0000	OK	1.008	S8	6.7	0.156	0.015	0.9223	
									Infiltration		0.0				
15 minute summer	S8	20	2.023	0.197	7.6	1.1268	0.0000	OK	Hydro-Brake®	MH8951	4.6				28.8
15 minute summer	MH8951	1	1.786	0.000	4.6	0.0000	0.0000	OK							

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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	PCP1	20	3.096	0.355	6.4	0.4279	0.0000	SURCHARGED	1.000	S1L	4.4	0.635	0.723	0.0234	
									Infiltration		0.0				
30 minute summer	S1L	20	3.081	0.431	4.4	0.4877	0.0000	SURCHARGED	Orifice	S1	3.3				
30 minute summer	S1	18	2.211	0.054	5.2	0.0958	0.0000	OK	1.002	S3	5.2	0.487	0.017	0.0669	
30 minute summer	PCP2	20	2.973	0.193	2.8	0.0546	0.0000	SURCHARGED	2.000	S2L	2.0	0.553	0.335	0.0482	
									Infiltration		0.0				
30 minute summer	S2L	20	2.969	0.301	2.0	0.3400	0.0000	SURCHARGED	Orifice	S2	1.4				
30 minute summer	S2	18	2.203	0.042	2.8	0.0733	0.0000	OK	2.002	S3	2.8	0.406	0.009	0.0579	
30 minute summer	S3	19	2.087	0.093	11.4	0.2371	0.0000	OK	1.003	S4	10.9	0.374	0.024	0.6407	
30 minute summer	S4	19	2.080	0.110	10.9	0.2798	0.0000	OK	1.004	S5	10.6	0.265	0.024	0.8594	
30 minute summer	S5LA	17	2.848	0.050	8.6	0.0567	0.0000	OK	3.000	S5	8.6	1.779	0.197	0.0213	
30 minute summer	PCP3	18	3.024	0.328	10.7	0.0929	0.0000	SURCHARGED	4.000	S5LB	9.7	0.618	0.541	0.0537	
									Infiltration		0.0				
30 minute summer	S5LB	18	3.007	0.342	9.7	0.3866	0.0000	SURCHARGED	Orifice	S5	9.2				
30 minute summer	S5	19	2.075	0.130	27.8	0.3320	0.0000	OK	1.005	S6	27.2	0.505	0.061	1.6308	
30 minute summer	S6	33	2.053	0.148	32.1	0.3757	0.0000	OK	1.006	S7	31.5	0.518	0.070	2.3335	
30 minute summer	PCP4	19	2.801	0.095	9.3	0.3486	0.0000	OK	5.000	S7LA	7.8	0.574	0.440	0.2230	
									Infiltration		0.0				
30 minute summer	S7LA	19	2.780	0.226	7.8	0.2560	0.0000	SURCHARGED	Orifice	S7	7.2				
30 minute summer	PCP5	19	2.861	0.200	9.6	0.1094	0.0000	SURCHARGED	6.000	S7LB	8.6	0.568	0.478	0.1716	
									Infiltration		0.0				
30 minute summer	S7LB	19	2.835	0.274	8.6	0.3104	0.0000	SURCHARGED	Orifice	S7	8.1				
30 minute summer	S7	33	2.053	0.190	46.8	0.4840	0.0000	OK	1.007	Basin	45.8	0.808	0.102	0.8488	
30 minute summer	Basin	33	2.053	0.213	45.8	22.4474	0.0000	OK	1.008	S8	6.0	0.121	0.014	1.1336	
									Infiltration		0.0				
30 minute summer	S8	33	2.053	0.227	7.5	1.3006	0.0000	SURCHARGED	Hydro-Brake®	MH8951	4.7				36.4
30 minute summer	MH8951	1	1.786	0.000	4.7	0.0000	0.0000	OK							

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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	PCP1	36	3.063	0.322	4.6	0.1640	0.0000	SURCHARGED	1.000	S1L	3.8	0.629	0.628	0.0234	
									Infiltration		0.0				
60 minute summer	S1L	36	3.050	0.400	3.8	0.4528	0.0000	SURCHARGED	Orifice	S1	3.2				
60 minute summer	S1	33	2.208	0.051	4.6	0.0893	0.0000	OK	1.002	S3	4.5	0.471	0.015	0.0596	
60 minute summer	PCP2	36	2.930	0.150	2.0	0.0425	0.0000	SURCHARGED	2.000	S2L	1.6	0.535	0.264	0.0482	
									Infiltration		0.0				
60 minute summer	S2L	36	2.927	0.259	1.6	0.2926	0.0000	SURCHARGED	Orifice	S2	1.3				
60 minute summer	S2	33	2.199	0.038	2.4	0.0674	0.0000	OK	2.002	S3	2.3	0.376	0.008	0.0509	
60 minute summer	S3	34	2.076	0.082	9.2	0.2082	0.0000	OK	1.003	S4	9.0	0.352	0.020	0.5641	
60 minute summer	S4	57	2.075	0.105	9.0	0.2668	0.0000	OK	1.004	S5	9.0	0.244	0.020	0.8310	
60 minute summer	S5LA	32	2.840	0.042	6.2	0.0472	0.0000	OK	3.000	S5	6.2	1.641	0.143	0.0167	
60 minute summer	PCP3	33	2.903	0.207	7.8	0.0587	0.0000	SURCHARGED	4.000	S5LB	7.4	0.531	0.413	0.0537	
									Infiltration		0.0				
60 minute summer	S5LB	33	2.893	0.228	7.4	0.2580	0.0000	SURCHARGED	Orifice	S5	7.2				
60 minute summer	S5	58	2.075	0.130	22.1	0.3304	0.0000	OK	1.005	S6	21.9	0.479	0.049	1.8859	
60 minute summer	S6	59	2.075	0.170	25.8	0.4319	0.0000	OK	1.006	S7	24.6	0.463	0.055	2.7680	
60 minute summer	PCP4	33	2.769	0.063	6.7	0.1039	0.0000	OK	5.000	S7LA	6.6	0.529	0.370	0.1867	
									Infiltration		0.0				
60 minute summer	S7LA	34	2.741	0.187	6.6	0.2113	0.0000	SURCHARGED	Orifice	S7	6.4				
60 minute summer	PCP5	33	2.759	0.098	6.9	0.0277	0.0000	OK	6.000	S7LB	6.5	0.519	0.362	0.1450	
									Infiltration		0.0				
60 minute summer	S7LB	34	2.748	0.187	6.5	0.2120	0.0000	SURCHARGED	Orifice	S7	6.4				
60 minute summer	S7	59	2.075	0.212	37.4	0.5386	0.0000	OK	1.007	Basin	35.4	0.699	0.079	0.9809	
60 minute summer	Basin	58	2.075	0.235	35.4	25.0706	0.0000	OK	1.008	S8	5.3	0.155	0.012	1.2889	
									Infiltration		0.0				
60 minute summer	S8	58	2.075	0.249	6.8	1.4234	0.0000	SURCHARGED	Hydro-Brake®	MH8951	4.8				46.2
60 minute summer	MH8951	1	1.786	0.000	4.8	0.0000	0.0000	OK							

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Results for 2 year 120 minute summer. 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 summer	PCP1	66	2.931	0.190	3.1	0.0539	0.0000	SURCHARGED	1.000	S1L	2.8	0.614	0.457	0.0234	
									Infiltration		0.0				
120 minute summer	S1L	66	2.923	0.273	2.8	0.3088	0.0000	SURCHARGED	Orifice	S1	2.6				
120 minute summer	S1	64	2.202	0.045	3.6	0.0796	0.0000	OK	1.002	S3	3.5	0.444	0.012	0.0500	
120 minute summer	PCP2	66	2.855	0.075	1.4	0.0212	0.0000	OK	2.000	S2L	1.3	0.501	0.210	0.0435	
									Infiltration		0.0				
120 minute summer	S2L	66	2.853	0.185	1.3	0.2094	0.0000	SURCHARGED	Orifice	S2	1.0				
120 minute summer	S2	64	2.195	0.034	1.8	0.0605	0.0000	OK	2.002	S3	1.8	0.360	0.006	0.0437	
120 minute summer	S3	90	2.088	0.094	7.0	0.2398	0.0000	OK	1.003	S4	6.9	0.344	0.015	0.6847	
120 minute summer	S4	90	2.088	0.118	6.9	0.3006	0.0000	OK	1.004	S5	6.7	0.227	0.015	0.9698	
120 minute summer	S5LA	62	2.832	0.034	4.2	0.0381	0.0000	OK	3.000	S5	4.2	1.483	0.096	0.0125	
120 minute summer	PCP3	64	2.800	0.104	5.2	0.0295	0.0000	OK	4.000	S5LB	5.1	0.472	0.283	0.0450	
									Infiltration		0.0				
120 minute summer	S5LB	64	2.797	0.132	5.1	0.1497	0.0000	OK	Orifice	S5	5.0				
120 minute summer	S5	90	2.088	0.143	15.9	0.3641	0.0000	OK	1.005	S6	15.5	0.420	0.035	2.1277	
120 minute summer	S6	90	2.088	0.183	18.3	0.4656	0.0000	OK	1.006	S7	16.5	0.365	0.037	3.0401	
120 minute summer	PCP4	62	2.758	0.052	4.6	0.0533	0.0000	OK	5.000	S7LA	4.5	0.506	0.255	0.1484	
									Infiltration		0.0				
120 minute summer	S7LA	64	2.668	0.114	4.5	0.1288	0.0000	OK	Orifice	S7	4.4				
120 minute summer	PCP5	62	2.713	0.052	4.7	0.0147	0.0000	OK	6.000	S7LB	4.7	0.496	0.260	0.0980	
									Infiltration		0.0				
120 minute summer	S7LB	64	2.678	0.117	4.7	0.1318	0.0000	OK	Orifice	S7	4.5				
120 minute summer	S7	90	2.088	0.225	25.5	0.5723	0.0000	OK	1.007	Basin	23.6	0.474	0.053	1.0649	
120 minute summer	Basin	90	2.088	0.248	23.6	26.7391	0.0000	OK	1.008	S8	4.8	0.150	0.011	1.3870	
									Infiltration		0.0				
120 minute summer	S8	90	2.088	0.262	6.0	1.4989	0.0000	SURCHARGED	Hydro-Brake®	MH8951	4.9				58.4
120 minute summer	MH8951	2	1.786	0.000	4.9	0.0000	0.0000	OK							

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Results for 2 year 180 minute summer. 420 minute analysis at 4 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)
180 minute summer	PCP1	96	2.854	0.113	2.5	0.0320	0.0000	SURCHARGED	1.000	S1L	2.3	0.595	0.377	0.0234	
									Infiltration		0.0				
180 minute summer	S1L	96	2.848	0.198	2.3	0.2242	0.0000	SURCHARGED	Orifice	S1	2.2				
180 minute summer	S1	96	2.198	0.041	2.9	0.0729	0.0000	OK	1.002	S3	2.9	0.413	0.009	0.0435	
180 minute summer	PCP2	96	2.814	0.034	1.1	0.0096	0.0000	OK	2.000	S2L	1.1	0.482	0.179	0.0310	
									Infiltration		0.0				
180 minute summer	S2L	96	2.814	0.146	1.1	0.1646	0.0000	OK	Orifice	S2	0.9				
180 minute summer	S2	96	2.192	0.031	1.5	0.0556	0.0000	OK	2.002	S3	1.5	0.359	0.005	0.0370	
180 minute summer	S3	124	2.091	0.097	5.6	0.2463	0.0000	OK	1.003	S4	5.5	0.311	0.012	0.7089	
180 minute summer	S4	124	2.091	0.121	5.5	0.3073	0.0000	OK	1.004	S5	5.2	0.221	0.012	0.9978	
180 minute summer	S5LA	92	2.828	0.030	3.3	0.0336	0.0000	OK	3.000	S5	3.3	1.390	0.076	0.0105	
180 minute summer	PCP3	92	2.766	0.070	4.1	0.0197	0.0000	OK	4.000	S5LB	4.0	0.412	0.225	0.0311	
									Infiltration		0.0				
180 minute summer	S5LB	92	2.764	0.099	4.0	0.1121	0.0000	OK	Orifice	S5	3.9				
180 minute summer	S5	124	2.091	0.146	12.6	0.3708	0.0000	OK	1.005	S6	12.0	0.385	0.027	2.1772	
180 minute summer	S6	124	2.091	0.186	14.3	0.4724	0.0000	OK	1.006	S7	12.6	0.325	0.028	3.0968	
180 minute summer	PCP4	92	2.751	0.045	3.6	0.0337	0.0000	OK	5.000	S7LA	3.5	0.469	0.200	0.1155	
									Infiltration		0.0				
180 minute summer	S7LA	92	2.642	0.088	3.5	0.0995	0.0000	OK	Orifice	S7	3.5				
180 minute summer	PCP5	92	2.707	0.046	3.7	0.0130	0.0000	OK	6.000	S7LB	3.7	0.472	0.204	0.0763	
									Infiltration		0.0				
180 minute summer	S7LB	92	2.651	0.090	3.7	0.1023	0.0000	OK	Orifice	S7	3.6				
180 minute summer	S7	124	2.091	0.228	19.7	0.5792	0.0000	OK	1.007	Basin	18.2	0.390	0.041	1.0822	
180 minute summer	Basin	124	2.091	0.251	18.2	27.0849	0.0000	OK	1.008	S8	4.7	0.139	0.011	1.4073	
									Infiltration		0.0				
180 minute summer	S8	124	2.090	0.264	5.6	1.5145	0.0000	SURCHARGED	Hydro-Brake®	MH8951	4.9				67.0
180 minute summer	MH8951	4	1.786	0.000	4.9	0.0000	0.0000	OK							

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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	PCP1	184	2.778	0.037	1.5	0.0105	0.0000	OK	1.000	S1L	1.5	0.586	0.246	0.0083	
									Infiltration		0.0				
360 minute summer	S1L	184	2.751	0.101	1.5	0.1142	0.0000	OK	Orifice	S1	1.4				
360 minute summer	S1	184	2.192	0.035	1.9	0.0615	0.0000	OK	1.002	S3	1.9	0.366	0.006	0.0339	
360 minute summer	PCP2	184	2.803	0.023	0.7	0.0065	0.0000	OK	2.000	S2L	0.7	0.484	0.115	0.0107	
									Infiltration		0.0				
360 minute summer	S2L	184	2.750	0.082	0.7	0.0923	0.0000	OK	Orifice	S2	0.6				
360 minute summer	S2	184	2.186	0.025	1.0	0.0450	0.0000	OK	2.002	S3	1.0	0.360	0.003	0.0241	
360 minute summer	S3	232	2.079	0.085	3.7	0.2175	0.0000	OK	1.003	S4	3.7	0.287	0.008	0.6043	
360 minute summer	S4	232	2.079	0.109	3.7	0.2785	0.0000	OK	1.004	S5	3.4	0.211	0.008	0.8782	
360 minute summer	S5LA	184	2.822	0.024	2.1	0.0266	0.0000	OK	3.000	S5	2.1	1.229	0.048	0.0075	
360 minute summer	PCP3	184	2.741	0.045	2.6	0.0126	0.0000	OK	4.000	S5LB	2.6	0.409	0.145	0.0194	
									Infiltration		0.0				
360 minute summer	S5LB	184	2.737	0.072	2.6	0.0814	0.0000	OK	Orifice	S5	2.6				
360 minute summer	S5	232	2.079	0.134	8.3	0.3420	0.0000	OK	1.005	S6	7.7	0.337	0.017	1.9697	
360 minute summer	S6	232	2.079	0.174	9.2	0.4437	0.0000	OK	1.006	S7	8.2	0.273	0.018	2.8633	
360 minute summer	PCP4	184	2.742	0.036	2.3	0.0148	0.0000	OK	5.000	S7LA	2.3	0.432	0.129	0.0813	
									Infiltration		0.0				
360 minute summer	S7LA	184	2.620	0.066	2.3	0.0745	0.0000	OK	Orifice	S7	2.2				
360 minute summer	PCP5	184	2.697	0.036	2.3	0.0102	0.0000	OK	6.000	S7LB	2.3	0.432	0.127	0.0525	
									Infiltration		0.0				
360 minute summer	S7LB	184	2.627	0.066	2.3	0.0750	0.0000	OK	Orifice	S7	2.3				
360 minute summer	S7	232	2.079	0.216	12.7	0.5506	0.0000	OK	1.007	Basin	11.9	0.390	0.026	1.0104	
360 minute summer	Basin	232	2.079	0.239	11.9	25.6605	0.0000	OK	1.008	S8	4.7	0.117	0.010	1.3236	
									Infiltration		0.0				
360 minute summer	S8	232	2.079	0.253	5.1	1.4500	0.0000	SURCHARGED	Hydro-Brake®	MH8951	4.8				84.7
360 minute summer	MH8951	8	1.786	0.000	4.8	0.0000	0.0000	OK							

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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	PCP1	360	2.765	0.024	0.7	0.0069	0.0000	OK	1.000	S1L	0.7	0.498	0.116	0.0042	
									Infiltration		0.0				
720 minute winter	S1L	360	2.695	0.045	0.7	0.0507	0.0000	OK	Orifice	S1	0.7				
720 minute winter	S1	360	2.181	0.024	0.9	0.0415	0.0000	OK	1.002	S3	0.9	0.366	0.003	0.0156	
720 minute winter	PCP2	330	2.795	0.015	0.3	0.0044	0.0000	OK	2.000	S2L	0.3	0.398	0.050	0.0046	
									Infiltration		0.0				
720 minute winter	S2L	345	2.700	0.032	0.3	0.0365	0.0000	OK	Orifice	S2	0.3				
720 minute winter	S2	345	2.180	0.019	0.5	0.0335	0.0000	OK	2.002	S3	0.5	0.349	0.002	0.0131	
720 minute winter	S3	450	2.043	0.049	1.8	0.1241	0.0000	OK	1.003	S4	1.8	0.253	0.004	0.2997	
720 minute winter	S4	450	2.042	0.072	1.8	0.1830	0.0000	OK	1.004	S5	1.8	0.188	0.004	0.5143	
720 minute winter	S5LA	375	2.814	0.016	1.0	0.0184	0.0000	OK	3.000	S5	1.0	0.994	0.023	0.0045	
720 minute winter	PCP3	360	2.723	0.027	1.2	0.0075	0.0000	OK	4.000	S5LB	1.2	0.387	0.067	0.0096	
									Infiltration		0.0				
720 minute winter	S5LB	375	2.708	0.043	1.2	0.0490	0.0000	OK	Orifice	S5	1.2				
720 minute winter	S5	450	2.042	0.097	4.1	0.2461	0.0000	OK	1.005	S6	3.9	0.286	0.009	1.3178	
720 minute winter	S6	450	2.041	0.136	4.6	0.3469	0.0000	OK	1.006	S7	4.4	0.226	0.010	2.1079	
720 minute winter	PCP4	360	2.730	0.024	1.0	0.0068	0.0000	OK	5.000	S7LA	1.0	0.378	0.056	0.0408	
									Infiltration		0.0				
720 minute winter	S7LA	360	2.592	0.038	1.0	0.0434	0.0000	OK	Orifice	S7	1.0				
720 minute winter	PCP5	375	2.686	0.025	1.1	0.0071	0.0000	OK	6.000	S7LB	1.1	0.384	0.061	0.0284	
									Infiltration		0.0				
720 minute winter	S7LB	375	2.602	0.041	1.1	0.0463	0.0000	OK	Orifice	S7	1.1				
720 minute winter	S7	450	2.041	0.178	6.5	0.4533	0.0000	OK	1.007	Basin	6.2	0.386	0.014	0.7753	
720 minute winter	Basin	450	2.041	0.201	6.2	20.9597	0.0000	OK	1.008	S8	4.5	0.127	0.010	1.0465	
									Infiltration		0.0				
720 minute winter	S8	450	2.041	0.215	4.7	1.2307	0.0000	OK	Hydro-Brake®	MH8951	4.7				121.5
720 minute winter	MH8951	15	1.786	0.000	4.7	0.0000	0.0000	OK							

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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	PCP1	750	2.763	0.022	0.6	0.0063	0.0000	OK	1.000	S1L	0.6	0.477	0.099	0.0038	
									Infiltration		0.0				
1440 minute summer	S1L	750	2.690	0.040	0.6	0.0457	0.0000	OK	Orifice	S1	0.6				
1440 minute summer	S1	750	2.179	0.022	0.8	0.0395	0.0000	OK	1.002	S3	0.8	0.365	0.003	0.0140	
1440 minute summer	PCP2	690	2.793	0.013	0.2	0.0036	0.0000	OK	2.000	S2L	0.2	0.353	0.033	0.0035	
									Infiltration		0.0				
1440 minute summer	S2L	690	2.693	0.025	0.2	0.0279	0.0000	OK	Orifice	S2	0.2				
1440 minute summer	S2	690	2.176	0.015	0.3	0.0273	0.0000	OK	2.002	S3	0.3	0.316	0.001	0.0089	
1440 minute summer	S3	750	2.025	0.031	1.4	0.0791	0.0000	OK	1.003	S4	1.4	0.236	0.003	0.1067	
1440 minute summer	S4	750	2.001	0.031	1.4	0.0779	0.0000	OK	1.004	S5	1.4	0.174	0.003	0.1544	
1440 minute summer	S5LA	750	2.813	0.015	0.8	0.0165	0.0000	OK	3.000	S5	0.8	0.931	0.018	0.0038	
1440 minute summer	PCP3	750	2.719	0.023	0.9	0.0065	0.0000	OK	4.000	S5LB	0.9	0.372	0.050	0.0075	
									Infiltration		0.0				
1440 minute summer	S5LB	750	2.701	0.036	0.9	0.0405	0.0000	OK	Orifice	S5	0.9				
1440 minute summer	S5	750	1.990	0.045	3.2	0.1134	0.0000	OK	1.005	S6	3.2	0.278	0.007	0.4759	
1440 minute summer	S6	810	1.979	0.074	3.7	0.1875	0.0000	OK	1.006	S7	3.6	0.210	0.008	1.0144	
1440 minute summer	PCP4	750	2.728	0.022	0.8	0.0061	0.0000	OK	5.000	S7LA	0.8	0.365	0.045	0.0337	
									Infiltration		0.0				
1440 minute summer	S7LA	750	2.587	0.033	0.8	0.0374	0.0000	OK	Orifice	S7	0.8				
1440 minute summer	PCP5	750	2.683	0.022	0.8	0.0061	0.0000	OK	6.000	S7LB	0.8	0.367	0.044	0.0216	
									Infiltration		0.0				
1440 minute summer	S7LB	750	2.594	0.033	0.8	0.0374	0.0000	OK	Orifice	S7	0.8				
1440 minute summer	S7	810	1.978	0.115	5.2	0.2922	0.0000	OK	1.007	Basin	5.1	0.353	0.011	0.4232	
1440 minute summer	Basin	810	1.977	0.137	5.1	13.6599	0.0000	OK	1.008	S8	4.1	0.127	0.009	0.6236	
									Infiltration		0.0				
1440 minute summer	S8	810	1.977	0.151	4.3	0.8663	0.0000	OK	Hydro-Brake®	MH8951	4.3				125.7
1440 minute summer	MH8951	30	1.786	0.000	4.3	0.0000	0.0000	OK							

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	PCP1	660	2.759	0.018	0.4	0.0051	0.0000	OK	1.000	S1L	0.4	0.426	0.066	0.0028	
									Infiltration		0.0				
1440 minute winter	S1L	660	2.681	0.031	0.4	0.0349	0.0000	OK	Orifice	S1	0.4				
1440 minute winter	S1	660	2.176	0.019	0.5	0.0328	0.0000	OK	1.002	S3	0.5	0.357	0.002	0.0096	
1440 minute winter	PCP2	660	2.793	0.013	0.2	0.0036	0.0000	OK	2.000	S2L	0.2	0.353	0.033	0.0035	
									Infiltration		0.0				
1440 minute winter	S2L	660	2.693	0.025	0.2	0.0279	0.0000	OK	Orifice	S2	0.2				
1440 minute winter	S2	660	2.176	0.015	0.3	0.0273	0.0000	OK	2.002	S3	0.3	0.316	0.001	0.0089	
1440 minute winter	S3	660	2.021	0.027	1.0	0.0677	0.0000	OK	1.003	S4	1.0	0.213	0.002	0.0843	
1440 minute winter	S4	660	1.996	0.026	1.0	0.0668	0.0000	OK	1.004	S5	1.0	0.164	0.002	0.1224	
1440 minute winter	S5LA	750	2.811	0.013	0.6	0.0144	0.0000	OK	3.000	S5	0.6	0.856	0.014	0.0031	
1440 minute winter	PCP3	720	2.716	0.020	0.7	0.0057	0.0000	OK	4.000	S5LB	0.7	0.359	0.039	0.0060	
									Infiltration		0.0				
1440 minute winter	S5LB	720	2.695	0.030	0.7	0.0342	0.0000	OK	Orifice	S5	0.7				
1440 minute winter	S5	750	1.983	0.038	2.3	0.0971	0.0000	OK	1.005	S6	2.3	0.258	0.005	0.2830	
1440 minute winter	S6	810	1.950	0.045	2.7	0.1151	0.0000	OK	1.006	S7	2.7	0.212	0.006	0.5825	
1440 minute winter	PCP4	690	2.725	0.019	0.6	0.0053	0.0000	OK	5.000	S7LA	0.6	0.351	0.034	0.0263	
									Infiltration		0.0				
1440 minute winter	S7LA	690	2.581	0.027	0.6	0.0309	0.0000	OK	Orifice	S7	0.6				
1440 minute winter	PCP5	690	2.680	0.019	0.6	0.0053	0.0000	OK	6.000	S7LB	0.6	0.352	0.033	0.0168	
									Infiltration		0.0				
1440 minute winter	S7LB	690	2.588	0.027	0.6	0.0309	0.0000	OK	Orifice	S7	0.6				
1440 minute winter	S7	810	1.946	0.083	3.9	0.2114	0.0000	OK	1.007	Basin	3.9	0.355	0.009	0.2695	
1440 minute winter	Basin	810	1.945	0.105	3.9	10.1751	0.0000	OK	1.008	S8	3.7	0.119	0.008	0.4313	
									Infiltration		0.0				
1440 minute winter	S8	810	1.945	0.119	3.9	0.6793	0.0000	OK	Hydro-Brake®	MH8951	3.9				138.9
1440 minute winter	MH8951	30	1.786	0.000	3.9	0.0000	0.0000	OK							

Results for 30 year 15 minute summer. 255 minute analysis at 1 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)
15 minute summer	PCP1	15	3.269	0.528	21.2	4.5351	0.0000	SURCHARGED	1.000	S1L	4.5	0.676	0.751	0.0234	
									Infiltration		0.0				
15 minute summer	S1L	15	3.248	0.598	4.5	0.6769	0.0000	SURCHARGED	Orifice	S1	4.0				
15 minute summer	S1	10	2.233	0.076	10.6	0.1341	0.0000	OK	1.002	S3	10.6	0.584	0.035	0.1346	
15 minute summer	PCP2	15	3.161	0.381	9.2	1.6236	0.0000	SURCHARGED	2.000	S2L	4.1	0.609	0.684	0.0482	
									Infiltration		0.0				
15 minute summer	S2L	15	3.154	0.486	4.1	0.5493	0.0000	SURCHARGED	Orifice	S2	1.8				
15 minute summer	S2	26	2.230	0.069	7.2	0.1211	0.0000	OK	2.002	S3	7.1	0.510	0.023	0.1706	
15 minute summer	S3	31	2.229	0.235	29.2	0.5983	0.0000	OK	1.003	S4	27.0	0.450	0.060	2.2700	
15 minute summer	S4	31	2.229	0.259	27.0	0.6585	0.0000	OK	1.004	S5	26.6	0.280	0.060	2.7064	
15 minute summer	S5LA	10	2.908	0.110	28.5	0.1247	0.0000	OK	3.000	S5	28.5	2.298	0.658	0.0547	
15 minute summer	PCP3	12	3.454	0.758	35.4	4.4577	0.0000	SURCHARGED	4.000	S5LB	14.5	0.824	0.811	0.0537	
									Infiltration		0.0				
15 minute summer	S5LB	13	3.416	0.751	14.5	0.8497	0.0000	SURCHARGED	Orifice	S5	14.2				
15 minute summer	S5	31	2.228	0.283	68.5	0.7206	0.0000	OK	1.005	S6	66.7	0.603	0.149	4.9982	
15 minute summer	S6	31	2.226	0.321	83.8	0.8175	0.0000	OK	1.006	S7	83.1	0.727	0.185	6.1132	
15 minute summer	PCP4	13	3.005	0.299	30.8	5.3392	0.0000	SURCHARGED	5.000	S7LA	10.1	0.790	0.567	0.2671	
									Infiltration		0.0				
15 minute summer	S7LA	13	2.946	0.392	10.1	0.4429	0.0000	SURCHARGED	Orifice	S7	10.0				
15 minute summer	PCP5	13	3.093	0.432	31.7	4.9319	0.0000	SURCHARGED	6.000	S7LB	11.4	0.745	0.631	0.1716	
									Infiltration		0.0				
15 minute summer	S7LB	13	3.042	0.481	11.4	0.5437	0.0000	SURCHARGED	Orifice	S7	11.2				
15 minute summer	S7	34	2.226	0.363	103.6	0.9227	0.0000	OK	1.007	Basin	101.9	1.013	0.228	1.9941	
15 minute summer	Basin	29	2.226	0.386	101.9	45.7602	0.0000	OK	1.008	S8	7.4	-0.141	0.017	2.4577	
									Infiltration		0.0				
15 minute summer	S8	34	2.226	0.400	12.1	2.2910	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				70.7
15 minute summer	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

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Results for 30 year 30 minute winter. 270 minute analysis at 1 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)
30 minute winter	PCP1	25	3.288	0.547	14.7	5.0964	0.0000	SURCHARGED	1.000	S1L	4.4	0.643	0.730	0.0234	
									Infiltration		0.0				
30 minute winter	S1L	25	3.267	0.617	4.4	0.6977	0.0000	SURCHARGED	Orifice	S1	4.0				
30 minute winter	S1	48	2.321	0.164	8.5	0.2892	0.0000	OK	1.002	S3	8.5	0.546	0.028	0.4046	
30 minute winter	PCP2	25	3.171	0.391	6.4	1.8980	0.0000	SURCHARGED	2.000	S2L	2.8	0.559	0.458	0.0482	
									Infiltration		0.0				
30 minute winter	S2L	25	3.164	0.496	2.8	0.5614	0.0000	SURCHARGED	Orifice	S2	1.8				
30 minute winter	S2	48	2.321	0.160	5.5	0.2821	0.0000	OK	2.002	S3	5.4	0.487	0.018	0.5282	
30 minute winter	S3	48	2.321	0.327	21.9	0.8311	0.0000	OK	1.003	S4	21.0	0.452	0.047	3.4666	
30 minute winter	S4	44	2.320	0.350	21.0	0.8914	0.0000	OK	1.004	S5	19.7	0.240	0.044	3.9826	
30 minute winter	S5LA	17	2.882	0.084	19.9	0.0953	0.0000	OK	3.000	S5	19.8	2.153	0.458	0.0408	
30 minute winter	PCP3	22	3.430	0.734	24.7	3.5985	0.0000	SURCHARGED	4.000	S5LB	14.1	0.800	0.787	0.0537	
									Infiltration		0.0				
30 minute winter	S5LB	22	3.394	0.729	14.1	0.8246	0.0000	SURCHARGED	Orifice	S5	14.0				
30 minute winter	S5	44	2.320	0.375	54.3	0.9548	0.0000	OK	1.005	S6	52.1	0.564	0.116	7.0720	
30 minute winter	S6	48	2.320	0.415	65.8	1.0554	0.0000	OK	1.006	S7	60.5	0.613	0.135	8.3181	
30 minute winter	PCP4	22	2.998	0.292	21.5	5.0784	0.0000	SURCHARGED	5.000	S7LA	9.9	0.676	0.558	0.2671	
									Infiltration		0.0				
30 minute winter	S7LA	23	2.940	0.386	9.9	0.4365	0.0000	SURCHARGED	Orifice	S7	9.9				
30 minute winter	PCP5	22	3.081	0.420	22.1	4.4872	0.0000	SURCHARGED	6.000	S7LB	11.1	0.693	0.616	0.1716	
									Infiltration		0.0				
30 minute winter	S7LB	22	3.030	0.469	11.1	0.5309	0.0000	SURCHARGED	Orifice	S7	11.0				
30 minute winter	S7	46	2.320	0.457	80.3	1.1619	0.0000	OK	1.007	Basin	73.7	0.865	0.165	2.6396	
30 minute winter	Basin	50	2.320	0.480	73.7	60.3795	0.0000	OK	1.008	S8	6.0	0.157	0.013	3.1837	
									Infiltration		0.1				
30 minute winter	S8	50	2.320	0.494	9.9	2.8282	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				77.1
30 minute winter	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 30 year 60 minute summer. 300 minute analysis at 1 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)
60 minute summer	PCP1	40	3.241	0.500	11.8	3.7164	0.0000	SURCHARGED	1.000	S1L	4.2	0.605	0.699	0.0234	
									Infiltration		0.0				
60 minute summer	S1L	40	3.222	0.572	4.2	0.6465	0.0000	SURCHARGED	Orifice	S1	3.9				
60 minute summer	S1	66	2.342	0.185	7.4	0.3272	0.0000	OK	1.002	S3	7.4	0.519	0.024	0.4778	
60 minute summer	PCP2	40	3.147	0.367	5.1	1.3132	0.0000	SURCHARGED	2.000	S2L	2.7	0.497	0.450	0.0482	
									Infiltration		0.0				
60 minute summer	S2L	40	3.140	0.472	2.7	0.5343	0.0000	SURCHARGED	Orifice	S2	1.7				
60 minute summer	S2	66	2.342	0.181	4.7	0.3201	0.0000	OK	2.002	S3	4.7	0.471	0.015	0.6249	
60 minute summer	S3	66	2.342	0.348	18.5	0.8860	0.0000	OK	1.003	S4	16.9	0.387	0.038	3.7581	
60 minute summer	S4	67	2.342	0.372	16.9	0.9471	0.0000	OK	1.004	S5	14.1	0.214	0.032	4.2924	
60 minute summer	S5LA	32	2.871	0.073	15.9	0.0822	0.0000	OK	3.000	S5	15.9	2.054	0.366	0.0342	
60 minute summer	PCP3	36	3.366	0.670	19.8	1.7187	0.0000	SURCHARGED	4.000	S5LB	13.4	0.764	0.752	0.0537	
									Infiltration		0.0				
60 minute summer	S5LB	36	3.333	0.668	13.4	0.7554	0.0000	SURCHARGED	Orifice	S5	13.3				
60 minute summer	S5	67	2.342	0.397	44.2	1.0108	0.0000	OK	1.005	S6	40.0	0.477	0.089	7.5710	
60 minute summer	S6	67	2.342	0.437	51.3	1.1125	0.0000	OK	1.006	S7	44.4	0.430	0.099	8.8364	
60 minute summer	PCP4	37	2.946	0.240	17.2	3.2830	0.0000	SURCHARGED	5.000	S7LA	9.2	0.632	0.520	0.2671	
									Infiltration		0.0				
60 minute summer	S7LA	37	2.895	0.341	9.2	0.3858	0.0000	SURCHARGED	Orifice	S7	9.2				
60 minute summer	PCP5	37	3.024	0.363	17.7	2.6810	0.0000	SURCHARGED	6.000	S7LB	10.4	0.648	0.577	0.1716	
									Infiltration		0.0				
60 minute summer	S7LB	37	2.980	0.419	10.4	0.4735	0.0000	SURCHARGED	Orifice	S7	10.3				
60 minute summer	S7	65	2.342	0.479	62.5	1.2192	0.0000	OK	1.007	Basin	56.6	0.609	0.126	2.7897	
60 minute summer	Basin	66	2.342	0.502	56.6	64.0733	0.0000	OK	1.008	S8	5.3	0.154	0.012	3.3496	
									Infiltration		0.1				
60 minute summer	S8	65	2.342	0.516	8.6	2.9552	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				84.1
60 minute summer	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 30 year 60 minute winter. 300 minute analysis at 1 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)
60 minute winter	PCP1	43	3.254	0.513	9.3	4.1082	0.0000	SURCHARGED	1.000	S1L	4.0	0.619	0.663	0.0234	
									Infiltration		0.0				
60 minute winter	S1L	43	3.234	0.584	4.0	0.6610	0.0000	SURCHARGED	Orifice	S1	3.9				
60 minute winter	S1	70	2.388	0.231	6.7	0.4074	0.0000	OK	1.002	S3	6.7	0.507	0.022	0.6387	
60 minute winter	PCP2	43	3.154	0.374	4.0	1.4594	0.0000	SURCHARGED	2.000	S2L	2.4	0.506	0.392	0.0482	
									Infiltration		0.0				
60 minute winter	S2L	43	3.147	0.479	2.4	0.5416	0.0000	SURCHARGED	Orifice	S2	1.7				
60 minute winter	S2	70	2.388	0.227	4.1	0.4003	0.0000	OK	2.002	S3	4.1	0.454	0.013	0.8381	
60 minute winter	S3	70	2.388	0.394	15.7	1.0016	0.0000	OK	1.003	S4	13.8	0.396	0.031	4.3682	
60 minute winter	S4	70	2.388	0.418	13.8	1.0626	0.0000	OK	1.004	S5	10.9	0.218	0.024	4.9298	
60 minute winter	S5LA	32	2.861	0.063	12.5	0.0708	0.0000	OK	3.000	S5	12.5	1.948	0.288	0.0284	
60 minute winter	PCP3	36	3.330	0.634	15.5	0.9797	0.0000	SURCHARGED	4.000	S5LB	13.1	0.743	0.731	0.0537	
									Infiltration		0.0				
60 minute winter	S5LB	37	3.298	0.633	13.1	0.7161	0.0000	SURCHARGED	Orifice	S5	13.0				
60 minute winter	S5	70	2.387	0.442	36.2	1.1262	0.0000	OK	1.005	S6	31.9	0.473	0.071	8.5735	
60 minute winter	S6	66	2.387	0.482	40.5	1.2278	0.0000	OK	1.006	S7	34.1	0.430	0.076	9.8550	
60 minute winter	PCP4	39	2.936	0.230	13.5	2.9744	0.0000	SURCHARGED	5.000	S7LA	9.1	0.596	0.511	0.2671	
									Infiltration		0.0				
60 minute winter	S7LA	39	2.886	0.332	9.1	0.3760	0.0000	SURCHARGED	Orifice	S7	9.1				
60 minute winter	PCP5	38	3.005	0.344	13.9	2.2028	0.0000	SURCHARGED	6.000	S7LB	10.1	0.581	0.563	0.1716	
									Infiltration		0.0				
60 minute winter	S7LB	38	2.963	0.402	10.1	0.4548	0.0000	SURCHARGED	Orifice	S7	10.1				
60 minute winter	S7	68	2.387	0.524	51.5	1.3347	0.0000	OK	1.007	Basin	46.6	0.657	0.104	3.0838	
60 minute winter	Basin	68	2.387	0.547	46.6	71.7939	0.0000	OK	1.008	S8	5.1	0.165	0.011	3.6743	
									Infiltration		0.1				
60 minute winter	S8	68	2.388	0.562	7.9	3.2154	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				84.4
60 minute winter	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 30 year 120 minute summer. 360 minute analysis at 2 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)
120 minute summer	PCP1	72	3.200	0.459	7.6	2.5029	0.0000	SURCHARGED	1.000	S1L	3.8	0.605	0.624	0.0234	
									Infiltration		0.0				
120 minute summer	S1L	72	3.182	0.532	3.8	0.6015	0.0000	SURCHARGED	Orifice	S1	3.7				
120 minute summer	S1	120	2.385	0.228	6.0	0.4025	0.0000	OK	1.002	S3	6.0	0.501	0.020	0.6287	
120 minute summer	PCP2	72	3.120	0.340	3.3	0.7984	0.0000	SURCHARGED	2.000	S2L	2.1	0.501	0.346	0.0482	
									Infiltration		0.0				
120 minute summer	S2L	72	3.114	0.446	2.1	0.5044	0.0000	SURCHARGED	Orifice	S2	1.7				
120 minute summer	S2	120	2.385	0.224	3.6	0.3954	0.0000	OK	2.002	S3	3.6	0.440	0.012	0.8249	
120 minute summer	S3	120	2.385	0.391	13.7	0.9946	0.0000	OK	1.003	S4	11.8	0.379	0.026	4.3314	
120 minute summer	S4	120	2.385	0.415	11.8	1.0556	0.0000	OK	1.004	S5	8.5	0.212	0.019	4.8918	
120 minute summer	S5LA	62	2.854	0.056	10.3	0.0630	0.0000	OK	3.000	S5	10.3	1.860	0.237	0.0244	
120 minute summer	PCP3	64	3.225	0.529	12.8	0.1498	0.0000	SURCHARGED	4.000	S5LB	12.1	0.687	0.676	0.0537	
									Infiltration		0.0				
120 minute summer	S5LB	64	3.199	0.534	12.1	0.6041	0.0000	SURCHARGED	Orifice	S5	11.8				
120 minute summer	S5	120	2.385	0.440	30.9	1.1193	0.0000	OK	1.005	S6	26.6	0.377	0.059	8.5171	
120 minute summer	S6	122	2.385	0.480	33.9	1.2216	0.0000	OK	1.006	S7	28.0	0.324	0.063	9.8035	
120 minute summer	PCP4	68	2.871	0.165	11.1	1.3908	0.0000	SURCHARGED	5.000	S7LA	8.2	0.546	0.460	0.2671	
									Infiltration		0.0				
120 minute summer	S7LA	68	2.832	0.278	8.2	0.3139	0.0000	SURCHARGED	Orifice	S7	8.2				
120 minute summer	PCP5	66	2.937	0.276	11.4	0.8424	0.0000	SURCHARGED	6.000	S7LB	9.2	0.524	0.512	0.1716	
									Infiltration		0.0				
120 minute summer	S7LB	66	2.902	0.341	9.2	0.3860	0.0000	SURCHARGED	Orifice	S7	9.2				
120 minute summer	S7	122	2.385	0.522	44.6	1.3289	0.0000	OK	1.007	Basin	40.4	0.504	0.090	3.0695	
120 minute summer	Basin	122	2.385	0.545	40.4	71.4036	0.0000	OK	1.008	S8	4.8	0.160	0.011	3.6585	
									Infiltration		0.1				
120 minute summer	S8	122	2.385	0.559	7.4	3.2021	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				98.6
120 minute summer	MH8951	2	1.786	0.000	5.0	0.0000	0.0000	OK							

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Results for 100 year +30% 15 minute summer. 255 minute analysis at 1 minute timestep. Mass balance: 100.00%															
Event	US Node ID	Peak (mlns)	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	PCP1	16	3.502	0.761	41.6	11.4344	0.0000	FLOOD RISK	1.000	S1L	5.5	0.701	0.906	0.0234	
									Infiltration		0.0				
15 minute summer	S1L	16	3.474	0.824	5.5	0.9318	0.0000	FLOOD RISK	Orifice	S1	4.7				
15 minute summer	S1	59	2.481	0.324	17.7	0.5721	0.0000	OK	1.002	S3	17.2	0.653	0.056	0.9818	
15 minute summer	PCP2	16	3.259	0.479	18.1	4.6615	0.0000	SURCHARGED	2.000	S2L	3.4	0.659	0.560	0.0482	
									Infiltration		0.0				
15 minute summer	S2L	16	3.251	0.583	3.4	0.6595	0.0000	SURCHARGED	Orifice	S2	1.9				
15 minute summer	S2	52	2.481	0.320	12.6	0.5652	0.0000	OK	2.002	S3	11.9	0.560	0.039	1.2934	
15 minute summer	S3	59	2.481	0.487	51.7	1.2386	0.0000	OK	1.003	S4	47.3	0.518	0.106	5.5874	
15 minute summer	S4	59	2.480	0.510	47.3	1.2985	0.0000	OK	1.004	S5	45.9	0.289	0.102	6.1801	
15 minute summer	S5LA	10	3.394	0.596	56.0	0.6740	0.0000	SURCHARGED	3.000	S5	55.5	3.155	1.281	0.0771	
15 minute summer	PCP3	14	3.645	0.949	69.6	14.4518	0.0000	FLOOD RISK	4.000	S5LB	16.3	0.926	0.911	0.0537	
									Infiltration		0.0				
15 minute summer	S5LB	14	3.598	0.933	16.3	1.0551	0.0000	FLOOD RISK	Orifice	S5	15.9				
15 minute summer	S5	59	2.479	0.534	116.6	1.3596	0.0000	OK	1.005	S6	116.6	0.681	0.260	10.4790	
15 minute summer	S6	59	2.478	0.573	150.4	1.4570	0.0000	OK	1.006	S7	145.1	0.877	0.324	11.6992	
15 minute summer	PCP4	14	3.206	0.500	60.5	14.3101	0.0000	FLOOD RISK	5.000	S7LA	12.4	0.799	0.697	0.2671	
									Infiltration		0.0				
15 minute summer	S7LA	15	3.117	0.563	12.4	0.6368	0.0000	SURCHARGED	Orifice	S7	12.2				
15 minute summer	PCP5	14	3.280	0.619	62.3	14.0931	0.0000	FLOOD RISK	6.000	S7LB	13.3	0.757	0.741	0.1716	
									Infiltration		0.0				
15 minute summer	S7LB	14	3.208	0.647	13.3	0.7322	0.0000	SURCHARGED	Orifice	S7	13.1				
15 minute summer	S7	57	2.477	0.614	169.1	1.5617	0.0000	OK	1.007	Basin	158.9	1.141	0.355	3.6049	
15 minute summer	Basin	64	2.477	0.637	161.5	88.0046	0.0000	OK	1.008	S8	10.3	-0.210	0.023	4.2370	
									Infiltration		0.1				
15 minute summer	S8	57	2.478	0.652	18.1	3.7347	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				72.5
15 minute summer	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 15 minute winter. 255 minute analysis at 1 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)
15 minute winter	PCP1	14	3.700	0.959	41.6	12.4550	0.4961	FLOOD	1.000	S1L	7.6	0.971	1.256	0.0234	
									Infiltration		0.0				
15 minute winter	S1L	16	3.665	1.015	7.6	1.1479	0.0000	FLOOD RISK	Orifice	S1	5.2				
15 minute winter	S1	60	2.540	0.383	17.8	0.6766	0.0000	OK	1.002	S3	17.3	0.643	0.056	1.1962	
15 minute winter	PCP2	17	3.283	0.503	18.1	5.4317	0.0000	SURCHARGED	2.000	S2L	3.3	0.678	0.551	0.0482	
									Infiltration		0.0				
15 minute winter	S2L	17	3.275	0.607	3.3	0.6862	0.0000	SURCHARGED	Orifice	S2	2.0				
15 minute winter	S2	60	2.540	0.379	12.6	0.6696	0.0000	OK	2.002	S3	11.7	0.571	0.038	1.5781	
15 minute winter	S3	60	2.540	0.546	51.6	1.3892	0.0000	OK	1.003	S4	47.8	0.531	0.107	6.3130	
15 minute winter	S4	60	2.539	0.569	47.8	1.4492	0.0000	OK	1.004	S5	46.9	0.290	0.105	6.9179	
15 minute winter	S5LA	10	3.396	0.598	56.0	0.6758	0.0000	SURCHARGED	3.000	S5	55.6	3.158	1.283	0.0779	
15 minute winter	PCP3	15	3.691	0.995	69.6	17.0533	0.0000	FLOOD RISK	4.000	S5LB	16.6	0.942	0.926	0.0537	
									Infiltration		0.0				
15 minute winter	S5LB	15	3.641	0.976	16.6	1.1043	0.0000	FLOOD RISK	Orifice	S5	16.3				
15 minute winter	S5	63	2.539	0.594	118.7	1.5114	0.0000	OK	1.005	S6	117.1	0.676	0.261	11.5942	
15 minute winter	S6	70	2.538	0.633	153.2	1.6103	0.0000	OK	1.006	S7	145.9	0.876	0.326	12.7587	
15 minute winter	PCP4	15	3.259	0.553	60.5	16.7113	0.0000	FLOOD RISK	5.000	S7LA	12.8	0.816	0.722	0.2671	
									Infiltration		0.0				
15 minute winter	S7LA	15	3.162	0.608	12.8	0.6880	0.0000	SURCHARGED	Orifice	S7	12.7				
15 minute winter	PCP5	15	3.325	0.664	62.3	16.5182	0.0000	FLOOD RISK	6.000	S7LB	13.7	0.779	0.762	0.1716	
									Infiltration		0.0				
15 minute winter	S7LB	15	3.248	0.687	13.7	0.7775	0.0000	SURCHARGED	Orifice	S7	13.6				
15 minute winter	S7	71	2.538	0.675	169.3	1.7172	0.0000	OK	1.007	Basin	156.9	1.091	0.350	3.8889	
15 minute winter	Basin	68	2.538	0.698	161.0	99.6242	0.0000	OK	1.008	S8	10.4	-0.242	0.023	4.5216	
									Infiltration		0.1				
15 minute winter	S8	71	2.539	0.713	18.1	4.0831	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				70.9
15 minute winter	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 30 minute summer. 270 minute analysis at 1 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)
30 minute summer	PCP1	27	3.504	0.763	32.9	11.4761	0.0000	FLOOD RISK	1.000	S1L	5.2	0.691	0.861	0.0234	
									Infiltration		0.0				
30 minute summer	S1L	27	3.476	0.826	5.2	0.9337	0.0000	FLOOD RISK	Orifice	S1	4.7				
30 minute summer	S1	78	2.573	0.416	14.8	0.7346	0.0000	OK	1.002	S3	14.6	0.631	0.048	1.3099	
30 minute summer	PCP2	27	3.262	0.482	14.3	4.7342	0.0000	SURCHARGED	2.000	S2L	2.5	0.615	0.406	0.0482	
									Infiltration		0.0				
30 minute summer	S2L	27	3.253	0.585	2.5	0.6621	0.0000	SURCHARGED	Orifice	S2	1.9				
30 minute summer	S2	78	2.573	0.412	10.4	0.7275	0.0000	OK	2.002	S3	9.9	0.560	0.032	1.7294	
30 minute summer	S3	78	2.573	0.579	42.4	1.4727	0.0000	OK	1.003	S4	38.2	0.475	0.085	6.6869	
30 minute summer	S4	78	2.572	0.602	38.2	1.5331	0.0000	OK	1.004	S5	32.7	0.252	0.073	7.2942	
30 minute summer	S5LA	17	3.114	0.316	44.3	0.3575	0.0000	SURCHARGED	3.000	S5	43.1	2.447	0.994	0.0779	
30 minute summer	PCP3	22	3.618	0.922	55.0	12.9223	0.0000	FLOOD RISK	4.000	S5LB	15.9	0.902	0.887	0.0537	
									Infiltration		0.0				
30 minute summer	S5LB	22	3.572	0.907	15.9	1.0261	0.0000	FLOOD RISK	Orifice	S5	15.7				
30 minute summer	S5	81	2.572	0.627	93.7	1.5968	0.0000	OK	1.005	S6	87.7	0.579	0.196	12.1504	
30 minute summer	S6	81	2.572	0.667	117.4	1.6979	0.0000	OK	1.006	S7	105.3	0.652	0.235	13.2510	
30 minute summer	PCP4	23	3.184	0.478	47.9	13.3023	0.0000	SURCHARGED	5.000	S7LA	12.0	0.788	0.678	0.2671	
									Infiltration		0.0				
30 minute summer	S7LA	23	3.098	0.544	12.0	0.6157	0.0000	SURCHARGED	Orifice	S7	12.0				
30 minute summer	PCP5	23	3.258	0.597	49.3	12.8838	0.0000	FLOOD RISK	6.000	S7LB	13.0	0.749	0.724	0.1716	
									Infiltration		0.0				
30 minute summer	S7LB	23	3.189	0.628	13.0	0.7101	0.0000	SURCHARGED	Orifice	S7	12.9				
30 minute summer	S7	79	2.572	0.709	128.4	1.8039	0.0000	OK	1.007	Basin	116.5	0.824	0.260	4.0083	
30 minute summer	Basin	79	2.572	0.732	117.0	106.4611	0.0000	OK	1.008	S8	6.6	0.182	0.015	4.6161	
									Infiltration		0.1				
30 minute summer	S8	79	2.572	0.746	14.3	4.2720	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				73.2
30 minute summer	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 30 minute winter. 270 minute analysis at 1 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)
30 minute winter	PCP1	23	3.700	0.959	28.4	12.4550	0.6849	FLOOD	1.000	S1L	7.1	0.912	1.179	0.0234	
									Infiltration		0.0				
30 minute winter	S1L	26	3.665	1.015	7.1	1.1479	0.0000	FLOOD RISK	Orifice	S1	5.2				
30 minute winter	S1	87	2.650	0.493	13.5	0.8710	0.0000	OK	1.002	S3	13.2	0.613	0.043	1.5502	
30 minute winter	PCP2	29	3.289	0.509	12.4	5.6063	0.0000	SURCHARGED	2.000	S2L	2.7	0.621	0.445	0.0482	
									Infiltration		0.0				
30 minute winter	S2L	29	3.280	0.612	2.7	0.6920	0.0000	SURCHARGED	Orifice	S2	2.0				
30 minute winter	S2	87	2.650	0.489	9.2	0.8640	0.0000	OK	2.002	S3	8.9	0.549	0.029	2.0499	
30 minute winter	S3	87	2.650	0.656	37.6	1.6694	0.0000	OK	1.003	S4	33.9	0.421	0.076	7.4452	
30 minute winter	S4	84	2.650	0.680	33.9	1.7306	0.0000	OK	1.004	S5	28.4	0.240	0.063	8.0174	
30 minute winter	S5LA	17	3.005	0.207	38.3	0.2345	0.0000	SURCHARGED	3.000	S5	37.7	2.329	0.870	0.0691	
30 minute winter	PCP3	24	3.653	0.957	47.6	14.8869	0.0000	FLOOD RISK	4.000	S5LB	16.1	0.915	0.900	0.0537	
									Infiltration		0.0				
30 minute winter	S5LB	24	3.605	0.940	16.1	1.0633	0.0000	FLOOD RISK	Orifice	S5	16.0				
30 minute winter	S5	84	2.650	0.705	83.6	1.7942	0.0000	OK	1.005	S6	76.1	0.580	0.170	13.0814	
30 minute winter	S6	84	2.650	0.745	103.3	1.8956	0.0000	OK	1.006	S7	90.2	0.639	0.201	13.8020	
30 minute winter	PCP4	24	3.230	0.524	41.4	15.3775	0.0000	FLOOD RISK	5.000	S7LA	12.5	0.790	0.702	0.2671	
									Infiltration		0.0				
30 minute winter	S7LA	25	3.137	0.583	12.5	0.6594	0.0000	SURCHARGED	Orifice	S7	12.4				
30 minute winter	PCP5	24	3.295	0.634	42.7	14.9352	0.0000	FLOOD RISK	6.000	S7LB	13.3	0.776	0.742	0.1716	
									Infiltration		0.0				
30 minute winter	S7LB	24	3.222	0.661	13.3	0.7479	0.0000	SURCHARGED	Orifice	S7	13.3				
30 minute winter	S7	86	2.650	0.787	112.8	2.0027	0.0000	SURCHARGED	1.007	Basin	101.8	0.889	0.227	4.0764	
30 minute winter	Basin	86	2.650	0.810	101.9	122.6980	0.0000	SURCHARGED	1.008	S8	7.4	0.197	0.016	4.6332	
									Infiltration		0.1				
30 minute winter	S8	87	2.650	0.824	12.4	4.7188	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				68.9
30 minute winter	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

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Results for 100 year +30% 60 minute winter. 300 minute analysis at 1 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)
60 minute winter	PCP1	46	3.557	0.816	17.6	12.4144	0.0000	FLOOD RISK	1.000	S1L	5.0	0.663	0.826	0.0234	
									Infiltration		0.0				
60 minute winter	S1L	47	3.525	0.875	5.0	0.9901	0.0000	FLOOD RISK	Orifice	S1	4.8				
60 minute winter	S1	106	2.777	0.620	9.9	1.0964	0.0000	SURCHARGED	1.002	S3	8.7	0.549	0.029	1.7436	
60 minute winter	PCP2	47	3.276	0.496	7.6	5.1833	0.0000	SURCHARGED	2.000	S2L	2.2	0.574	0.361	0.0482	
									Infiltration		0.0				
60 minute winter	S2L	47	3.267	0.599	2.2	0.6775	0.0000	SURCHARGED	Orifice	S2	2.0				
60 minute winter	S2	108	2.777	0.616	6.4	1.0893	0.0000	SURCHARGED	2.002	S3	5.4	0.483	0.018	2.3140	
60 minute winter	S3	106	2.777	0.783	23.2	1.9940	0.0000	SURCHARGED	1.003	S4	18.9	0.401	0.042	7.9151	
60 minute winter	S4	106	2.777	0.807	18.9	2.0550	0.0000	SURCHARGED	1.004	S5	13.5	0.232	0.030	8.3112	
60 minute winter	S5LA	32	2.893	0.095	23.7	0.1080	0.0000	OK	3.000	S5	23.7	2.228	0.546	0.0470	
60 minute winter	PCP3	41	3.572	0.876	29.4	10.2845	0.0000	SURCHARGED	4.000	S5LB	15.3	0.871	0.857	0.0537	
									Infiltration		0.0				
60 minute winter	S5LB	41	3.528	0.863	15.3	0.9763	0.0000	SURCHARGED	Orifice	S5	15.3				
60 minute winter	S5	106	2.777	0.832	52.5	2.1186	0.0000	SURCHARGED	1.005	S6	44.8	0.470	0.100	13.2490	
60 minute winter	S6	108	2.777	0.872	61.5	2.2203	0.0000	SURCHARGED	1.006	S7	51.9	0.462	0.116	13.8101	
60 minute winter	PCP4	42	3.159	0.453	25.6	12.1973	0.0000	SURCHARGED	5.000	S7LA	11.7	0.666	0.660	0.2671	
									Infiltration		0.0				
60 minute winter	S7LA	43	3.077	0.523	11.7	0.5920	0.0000	SURCHARGED	Orifice	S7	11.7				
60 minute winter	PCP5	42	3.229	0.568	26.4	11.3269	0.0000	FLOOD RISK	6.000	S7LB	12.6	0.718	0.703	0.1716	
									Infiltration		0.0				
60 minute winter	S7LB	42	3.163	0.602	12.6	0.6807	0.0000	SURCHARGED	Orifice	S7	12.6				
60 minute winter	S7	108	2.777	0.914	74.2	2.3271	0.0000	SURCHARGED	1.007	Basin	67.4	0.711	0.151	4.0764	
60 minute winter	Basin	109	2.777	0.937	67.4	151.2695	0.0000	SURCHARGED	1.008	S8	4.8	0.172	0.011	4.6332	
									Infiltration		0.1				
60 minute winter	S8	109	2.777	0.951	8.8	5.4477	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				73.6
60 minute winter	MH8951	1	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 120 minute summer. 360 minute analysis at 2 minute timestep. Mass balance: 99.99%															
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	PCP1	78	3.421	0.680	14.2	9.0397	0.0000	FLOOD RISK	1.000	S1L	4.5	0.596	0.743	0.0234	
									Infiltration		0.0				
120 minute summer	S1L	78	3.396	0.746	4.5	0.8436	0.0000	SURCHARGED	Orifice	S1	4.4				
120 minute summer	S1	132	2.808	0.651	8.6	1.1502	0.0000	SURCHARGED	1.002	S3	7.5	0.502	0.024	1.7436	
120 minute summer	PCP2	78	3.229	0.449	6.2	3.6705	0.0000	SURCHARGED	2.000	S2L	2.0	0.485	0.336	0.0482	
									Infiltration		0.0				
120 minute summer	S2L	78	3.221	0.553	2.0	0.6256	0.0000	SURCHARGED	Orifice	S2	1.9				
120 minute summer	S2	132	2.808	0.647	5.5	1.1432	0.0000	SURCHARGED	2.002	S3	4.2	0.433	0.014	2.3140	
120 minute summer	S3	132	2.808	0.814	19.3	2.0715	0.0000	SURCHARGED	1.003	S4	15.0	0.308	0.034	7.9151	
120 minute summer	S4	132	2.808	0.838	15.0	2.1324	0.0000	SURCHARGED	1.004	S5	9.6	0.223	0.022	8.3112	
120 minute summer	S5LA	62	2.880	0.082	19.1	0.0927	0.0000	OK	3.000	S5	19.0	2.135	0.439	0.0433	
120 minute summer	PCP3	70	3.474	0.778	23.8	5.2921	0.0000	SURCHARGED	4.000	S5LB	14.4	0.820	0.807	0.0537	
									Infiltration		0.0				
120 minute summer	S5LB	70	3.435	0.770	14.4	0.8714	0.0000	SURCHARGED	Orifice	S5	14.4				
120 minute summer	S5	132	2.808	0.863	44.0	2.1958	0.0000	SURCHARGED	1.005	S6	37.3	0.389	0.083	13.2490	
120 minute summer	S6	132	2.808	0.903	50.9	2.2972	0.0000	SURCHARGED	1.006	S7	42.6	0.378	0.095	13.8101	
120 minute summer	PCP4	72	3.061	0.355	20.7	7.7374	0.0000	SURCHARGED	5.000	S7LA	10.6	0.604	0.598	0.2671	
									Infiltration		0.0				
120 minute summer	S7LA	72	2.993	0.439	10.6	0.4968	0.0000	SURCHARGED	Orifice	S7	10.6				
120 minute summer	PCP5	72	3.137	0.476	21.3	6.7063	0.0000	SURCHARGED	6.000	S7LB	11.7	0.663	0.649	0.1716	
									Infiltration		0.0				
120 minute summer	S7LB	72	3.081	0.520	11.7	0.5877	0.0000	SURCHARGED	Orifice	S7	11.7				
120 minute summer	S7	132	2.807	0.944	63.1	2.4036	0.0000	SURCHARGED	1.007	Basin	57.6	0.571	0.129	4.0764	
120 minute summer	Basin	134	2.807	0.967	57.6	158.3612	0.0000	SURCHARGED	1.008	S8	4.5	0.156	0.010	4.6332	
									Infiltration		0.1				
120 minute summer	S8	134	2.807	0.981	8.0	5.6195	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				88.3
120 minute summer	MH8951	2	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 120 minute winter. 360 minute analysis at 2 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)
120 minute winter	PCP1	84	3.451	0.710	10.6	9.9103	0.0000	FLOOD RISK	1.000	S1L	4.6	0.619	0.753	0.0234	
									Infiltration		0.0				
120 minute winter	S1L	84	3.425	0.775	4.6	0.8767	0.0000	FLOOD RISK	Orifice	S1	4.5				
120 minute winter	S1	128	2.904	0.747	7.5	1.3206	0.0000	SURCHARGED	1.002	S3	6.6	0.496	0.022	1.7436	
120 minute winter	PCP2	84	3.240	0.460	4.6	4.0135	0.0000	SURCHARGED	2.000	S2L	1.9	0.501	0.321	0.0482	
									Infiltration		0.0				
120 minute winter	S2L	86	3.232	0.564	1.9	0.6378	0.0000	SURCHARGED	Orifice	S2	1.9				
120 minute winter	S2	128	2.904	0.743	4.6	1.3135	0.0000	SURCHARGED	2.002	S3	3.5	0.431	0.011	2.3140	
120 minute winter	S3	128	2.904	0.910	15.7	2.3169	0.0000	SURCHARGED	1.003	S4	12.1	0.410	0.027	7.9151	
120 minute winter	S4	128	2.904	0.934	12.1	2.3779	0.0000	SURCHARGED	1.004	S5	8.3	0.228	0.019	8.3112	
120 minute winter	S5LA	128	2.904	0.106	14.2	0.1202	0.0000	OK	3.000	S5	14.2	2.005	0.328	0.0685	
120 minute winter	PCP3	72	3.428	0.732	17.7	3.5088	0.0000	SURCHARGED	4.000	S5LB	14.0	0.794	0.781	0.0537	
									Infiltration		0.0				
120 minute winter	S5LB	72	3.391	0.726	14.0	0.8216	0.0000	SURCHARGED	Orifice	S5	14.0				
120 minute winter	S5	128	2.904	0.959	36.7	2.4414	0.0000	SURCHARGED	1.005	S6	31.4	0.406	0.070	13.2490	
120 minute winter	S6	126	2.904	0.999	41.4	2.5430	0.0000	SURCHARGED	1.006	S7	35.0	0.404	0.078	13.8101	
120 minute winter	PCP4	76	3.044	0.338	15.4	6.9784	0.0000	SURCHARGED	5.000	S7LA	10.4	0.593	0.587	0.2671	
									Infiltration		0.0				
120 minute winter	S7LA	80	2.982	0.428	10.4	0.4844	0.0000	SURCHARGED	Orifice	S7	10.4				
120 minute winter	PCP5	74	3.111	0.450	15.9	5.6386	0.0000	SURCHARGED	6.000	S7LB	11.4	0.646	0.632	0.1716	
									Infiltration		0.0				
120 minute winter	S7LB	74	3.058	0.497	11.4	0.5617	0.0000	SURCHARGED	Orifice	S7	11.4				
120 minute winter	S7	126	2.904	1.041	55.9	2.6499	0.0000	SURCHARGED	1.007	Basin	52.0	0.623	0.116	4.0764	
120 minute winter	Basin	124	2.904	1.064	52.0	182.2069	0.0000	SURCHARGED	1.008	S8	4.5	0.153	0.010	4.6332	
									Infiltration		0.1				
120 minute winter	S8	124	2.904	1.078	7.4	6.1740	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				91.5
120 minute winter	MH8951	2	1.786	0.000	5.0	0.0000	0.0000	OK							

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Results for 100 year +30% 180 minute winter. 420 minute analysis at 4 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)
180 minute winter	PCP1	120	3.372	0.631	7.8	7.5856	0.0000	SURCHARGED	1.000	S1L	4.3	0.597	0.708	0.0234	
									Infiltration		0.0				
180 minute winter	S1L	120	3.352	0.702	4.3	0.7935	0.0000	SURCHARGED	Orifice	S1	4.2				
180 minute winter	S1	184	2.970	0.813	6.5	1.4361	0.0000	SURCHARGED	1.002	S3	5.8	0.475	0.019	1.7436	
180 minute winter	PCP2	120	3.208	0.428	3.4	2.9822	0.0000	SURCHARGED	2.000	S2L	1.8	0.485	0.305	0.0482	
									Infiltration		0.0				
180 minute winter	S2L	124	3.202	0.534	1.8	0.6036	0.0000	SURCHARGED	Orifice	S2	1.8				
180 minute winter	S2	184	2.970	0.809	3.8	1.4291	0.0000	SURCHARGED	2.002	S3	2.9	0.387	0.009	2.3140	
180 minute winter	S3	184	2.970	0.976	12.9	2.4833	0.0000	SURCHARGED	1.003	S4	10.0	0.389	0.022	7.9151	
180 minute winter	S4	184	2.970	1.000	10.0	2.5444	0.0000	SURCHARGED	1.004	S5	9.0	0.224	0.020	8.3112	
180 minute winter	S5LA	184	2.970	0.172	10.5	0.1942	0.0000	SURCHARGED	3.000	S5	10.5	1.871	0.242	0.0779	
180 minute winter	PCP3	96	3.286	0.590	13.1	0.4007	0.0000	SURCHARGED	4.000	S5LB	12.5	0.712	0.700	0.0537	
									Infiltration		0.0				
180 minute winter	S5LB	96	3.257	0.592	12.5	0.6692	0.0000	SURCHARGED	Orifice	S5	12.5				
180 minute winter	S5	184	2.970	1.025	30.4	2.6080	0.0000	SURCHARGED	1.005	S6	26.4	0.381	0.059	13.2490	
180 minute winter	S6	184	2.970	1.065	33.7	2.7099	0.0000	SURCHARGED	1.006	S7	29.2	0.371	0.065	13.8101	
180 minute winter	PCP4	180	2.970	0.264	11.4	4.0728	0.0000	SURCHARGED	5.000	S7LA	9.3	0.530	0.525	0.2671	
									Infiltration		0.0				
180 minute winter	S7LA	180	2.970	0.416	9.3	0.4710	0.0000	SURCHARGED	Orifice	S7	9.3				
180 minute winter	PCP5	104	3.008	0.347	11.7	2.2629	0.0000	SURCHARGED	6.000	S7LB	10.1	0.576	0.563	0.1716	
									Infiltration		0.0				
180 minute winter	S7LB	180	2.971	0.410	10.1	0.4636	0.0000	SURCHARGED	Orifice	S7	10.1				
180 minute winter	S7	184	2.970	1.107	48.5	2.8169	0.0000	SURCHARGED	1.007	Basin	46.7	0.561	0.104	4.0764	
180 minute winter	Basin	184	2.970	1.130	46.7	199.1889	0.0000	SURCHARGED	1.008	S8	4.6	0.150	0.010	4.6332	
									Infiltration		0.1				
180 minute winter	S8	184	2.970	1.144	6.9	6.5497	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				108.3
180 minute winter	MH8951	4	1.786	0.000	5.0	0.0000	0.0000	OK							

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Results for 100 year +30% 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	PCP1	208	3.247	0.506	6.4	3.8871	0.0000	SURCHARGED	1.000	S1L	3.9	0.586	0.643	0.0234	
									Infiltration		0.0				
360 minute summer	S1L	208	3.227	0.577	3.9	0.6529	0.0000	SURCHARGED	Orifice	S1	3.9				
360 minute summer	S1	360	2.905	0.748	5.8	1.3224	0.0000	SURCHARGED	1.002	S3	5.1	0.442	0.017	1.7436	
360 minute summer	PCP2	208	3.150	0.370	2.8	1.3883	0.0000	SURCHARGED	2.000	S2L	1.7	0.484	0.289	0.0482	
									Infiltration		0.0				
360 minute summer	S2L	208	3.144	0.476	1.7	0.5381	0.0000	SURCHARGED	Orifice	S2	1.7				
360 minute summer	S2	360	2.905	0.744	3.4	1.3153	0.0000	SURCHARGED	2.002	S3	2.6	0.359	0.009	2.3140	
360 minute summer	S3	360	2.905	0.911	11.2	2.3195	0.0000	SURCHARGED	1.003	S4	8.8	0.265	0.020	7.9151	
360 minute summer	S4	360	2.905	0.935	8.8	2.3806	0.0000	SURCHARGED	1.004	S5	7.1	0.197	0.016	8.3112	
360 minute summer	S5LA	360	2.905	0.107	8.6	0.1215	0.0000	OK	3.000	S5	8.6	1.782	0.198	0.0689	
360 minute summer	PCP3	184	3.097	0.401	10.7	0.1134	0.0000	SURCHARGED	4.000	S5LB	10.5	0.595	0.585	0.0537	
									Infiltration		0.0				
360 minute summer	S5LB	184	3.076	0.411	10.5	0.4650	0.0000	SURCHARGED	Orifice	S5	10.2				
360 minute summer	S5	360	2.905	0.960	25.4	2.4442	0.0000	SURCHARGED	1.005	S6	21.8	0.309	0.049	13.2490	
360 minute summer	S6	360	2.905	1.000	27.9	2.5460	0.0000	SURCHARGED	1.006	S7	23.7	0.288	0.053	13.8101	
360 minute summer	PCP4	360	2.908	0.202	9.3	2.2121	0.0000	SURCHARGED	5.000	S7LA	8.0	0.465	0.449	0.2671	
									Infiltration		0.0				
360 minute summer	S7LA	360	2.907	0.353	8.0	0.3996	0.0000	SURCHARGED	Orifice	S7	8.0				
360 minute summer	PCP5	360	2.908	0.247	9.6	0.4574	0.0000	SURCHARGED	6.000	S7LB	8.7	0.495	0.485	0.1716	
									Infiltration		0.0				
360 minute summer	S7LB	360	2.907	0.346	8.7	0.3919	0.0000	SURCHARGED	Orifice	S7	8.8				
360 minute summer	S7	360	2.905	1.042	40.0	2.6529	0.0000	SURCHARGED	1.007	Basin	37.2	0.463	0.083	4.0764	
360 minute summer	Basin	360	2.905	1.065	37.2	182.4969	0.0000	SURCHARGED	1.008	S8	4.7	0.160	0.010	4.6332	
									Infiltration		0.1				
360 minute summer	S8	360	2.905	1.079	6.4	6.1805	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				149.2
360 minute summer	MH8951	8	1.786	0.000	5.0	0.0000	0.0000	OK							

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Results for 100 year +30% 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	PCP1	264	3.194	0.453	5.0	2.3308	0.0000	SURCHARGED	1.000	S1L	3.7	0.597	0.611	0.0234	
									Infiltration		0.0				
480 minute summer	S1L	264	3.176	0.526	3.7	0.5949	0.0000	SURCHARGED	Orifice	S1	3.7				
480 minute summer	S1	456	2.894	0.737	5.2	1.3017	0.0000	SURCHARGED	1.002	S3	4.7	0.434	0.015	1.7436	
480 minute summer	PCP2	264	3.116	0.336	2.2	0.7262	0.0000	SURCHARGED	2.000	S2L	1.7	0.484	0.282	0.0482	
									Infiltration		0.0				
480 minute summer	S2L	264	3.110	0.442	1.7	0.4995	0.0000	SURCHARGED	Orifice	S2	1.7				
480 minute summer	S2	456	2.894	0.733	2.9	1.2946	0.0000	SURCHARGED	2.002	S3	2.3	0.359	0.008	2.3140	
480 minute summer	S3	456	2.894	0.900	9.7	2.2896	0.0000	SURCHARGED	1.003	S4	7.8	0.258	0.017	7.9151	
480 minute summer	S4	456	2.894	0.924	7.8	2.3507	0.0000	SURCHARGED	1.004	S5	6.6	0.187	0.015	8.3112	
480 minute summer	S5LA	456	2.894	0.096	6.7	0.1082	0.0000	OK	3.000	S5	6.7	1.676	0.155	0.0652	
480 minute summer	PCP3	248	2.970	0.274	8.4	0.0774	0.0000	SURCHARGED	4.000	S5LB	8.4	0.477	0.469	0.0537	
									Infiltration		0.0				
480 minute summer	S5LB	248	2.956	0.291	8.4	0.3295	0.0000	SURCHARGED	Orifice	S5	8.4				
480 minute summer	S5	456	2.894	0.949	21.1	2.4143	0.0000	SURCHARGED	1.005	S6	18.3	0.290	0.041	13.2490	
480 minute summer	S6	456	2.894	0.989	23.1	2.5161	0.0000	SURCHARGED	1.006	S7	19.8	0.272	0.044	13.8101	
480 minute summer	PCP4	464	2.896	0.190	7.3	1.9205	0.0000	SURCHARGED	5.000	S7LA	7.1	0.466	0.400	0.2671	
									Infiltration		0.0				
480 minute summer	S7LA	464	2.895	0.341	7.1	0.3860	0.0000	SURCHARGED	Orifice	S7	7.1				
480 minute summer	PCP5	456	2.896	0.235	7.5	0.3359	0.0000	SURCHARGED	6.000	S7LB	7.5	0.466	0.417	0.1716	
									Infiltration		0.0				
480 minute summer	S7LB	456	2.895	0.334	7.5	0.3781	0.0000	SURCHARGED	Orifice	S7	7.5				
480 minute summer	S7	456	2.894	1.031	34.3	2.6230	0.0000	SURCHARGED	1.007	Basin	32.2	0.414	0.072	4.0764	
480 minute summer	Basin	456	2.894	1.054	32.2	179.5288	0.0000	SURCHARGED	1.008	S8	4.7	0.151	0.010	4.6332	
									Infiltration		0.1				
480 minute summer	S8	456	2.894	1.068	6.2	6.1133	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				178.0
480 minute summer	MH8951	8	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 480 minute winter. 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 winter	PCP1	272	3.122	0.381	3.7	0.7714	0.0000	SURCHARGED	1.000	S1L	3.4	0.586	0.567	0.0234	
									Infiltration		0.0				
480 minute winter	S1L	288	3.110	0.460	3.4	0.5197	0.0000	SURCHARGED	Orifice	S1	3.4				
480 minute winter	S1	456	3.027	0.870	4.6	1.5376	0.0000	SURCHARGED	1.002	S3	4.2	0.399	0.014	1.7436	
480 minute winter	PCP2	264	3.055	0.275	1.6	0.1176	0.0000	SURCHARGED	2.000	S2L	1.6	0.484	0.257	0.0482	
									Infiltration		0.0				
480 minute winter	S2L	264	3.050	0.382	1.6	0.4316	0.0000	SURCHARGED	Orifice	S2	1.5				
480 minute winter	S2	456	3.027	0.866	2.5	1.5305	0.0000	SURCHARGED	2.002	S3	2.1	0.360	0.007	2.3140	
480 minute winter	S3	456	3.027	1.033	8.3	2.6295	0.0000	SURCHARGED	1.003	S4	7.3	0.255	0.016	7.9151	
480 minute winter	S4	456	3.027	1.057	7.3	2.6905	0.0000	SURCHARGED	1.004	S5	7.0	0.189	0.016	8.3112	
480 minute winter	S5LA	456	3.027	0.229	5.0	0.2594	0.0000	SURCHARGED	3.000	S5	5.0	1.555	0.115	0.0779	
480 minute winter	PCP3	456	3.030	0.334	6.2	0.0946	0.0000	SURCHARGED	4.000	S5LB	6.2	0.408	0.347	0.0537	
									Infiltration		0.0				
480 minute winter	S5LB	456	3.030	0.365	6.2	0.4128	0.0000	SURCHARGED	Orifice	S5	6.2				
480 minute winter	S5	456	3.027	1.082	16.9	2.7542	0.0000	SURCHARGED	1.005	S6	16.5	0.309	0.037	13.2490	
480 minute winter	S6	456	3.027	1.122	19.6	2.8560	0.0000	SURCHARGED	1.006	S7	19.3	0.287	0.043	13.8101	
480 minute winter	PCP4	456	3.029	0.323	5.4	6.3353	0.0000	SURCHARGED	5.000	S7LA	5.4	0.467	0.304	0.2671	
									Infiltration		0.0				
480 minute winter	S7LA	456	3.029	0.475	5.4	0.5373	0.0000	SURCHARGED	Orifice	S7	5.4				
480 minute winter	PCP5	456	3.029	0.368	5.6	2.8414	0.0000	SURCHARGED	6.000	S7LB	5.6	0.465	0.311	0.1716	
									Infiltration		0.0				
480 minute winter	S7LB	456	3.029	0.468	5.6	0.5296	0.0000	SURCHARGED	Orifice	S7	5.6				
480 minute winter	S7	456	3.027	1.164	28.2	2.9629	0.0000	SURCHARGED	1.007	Basin	27.9	0.459	0.062	4.0764	
480 minute winter	Basin	456	3.027	1.187	27.9	214.5746	0.0000	SURCHARGED	1.008	S8	4.7	0.141	0.011	4.6332	
									Infiltration		0.1				
480 minute winter	S8	456	3.027	1.201	5.8	6.8780	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				185.9
480 minute winter	MH8951	8	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 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	PCP1	330	3.144	0.403	4.1	1.1633	0.0000	SURCHARGED	1.000	S1L	3.5	0.574	0.581	0.0234	
									Infiltration		0.0				
600 minute summer	S1L	330	3.128	0.478	3.5	0.5411	0.0000	SURCHARGED	Orifice	S1	3.5				
600 minute summer	S1	510	2.881	0.724	4.8	1.2801	0.0000	SURCHARGED	1.002	S3	4.3	0.397	0.014	1.7436	
600 minute summer	PCP2	330	3.075	0.295	1.8	0.2369	0.0000	SURCHARGED	2.000	S2L	1.6	0.460	0.271	0.0482	
									Infiltration		0.0				
600 minute summer	S2L	330	3.069	0.401	1.6	0.4537	0.0000	SURCHARGED	Orifice	S2	1.6				
600 minute summer	S2	510	2.881	0.720	2.7	1.2731	0.0000	SURCHARGED	2.002	S3	2.2	0.357	0.007	2.3140	
600 minute summer	S3	510	2.881	0.887	8.7	2.2586	0.0000	SURCHARGED	1.003	S4	7.2	0.253	0.016	7.9151	
600 minute summer	S4	510	2.881	0.911	7.2	2.3197	0.0000	SURCHARGED	1.004	S5	5.6	0.186	0.013	8.3112	
600 minute summer	S5LA	510	2.881	0.083	5.5	0.0944	0.0000	OK	3.000	S5	5.5	1.593	0.127	0.0613	
600 minute summer	PCP3	510	2.884	0.188	6.8	0.0532	0.0000	SURCHARGED	4.000	S5LB	6.8	0.408	0.380	0.0537	
									Infiltration		0.0				
600 minute summer	S5LB	510	2.884	0.219	6.8	0.2474	0.0000	SURCHARGED	Orifice	S5	6.8				
600 minute summer	S5	510	2.881	0.936	18.0	2.3833	0.0000	SURCHARGED	1.005	S6	15.8	0.280	0.035	13.2490	
600 minute summer	S6	510	2.881	0.976	19.7	2.4851	0.0000	SURCHARGED	1.006	S7	17.1	0.248	0.038	13.8101	
600 minute summer	PCP4	510	2.883	0.177	5.9	1.6441	0.0000	SURCHARGED	5.000	S7LA	5.9	0.467	0.332	0.2671	
									Infiltration		0.0				
600 minute summer	S7LA	510	2.883	0.329	5.9	0.3722	0.0000	SURCHARGED	Orifice	S7	5.9				
600 minute summer	PCP5	510	2.883	0.222	6.1	0.2359	0.0000	SURCHARGED	6.000	S7LB	6.1	0.466	0.339	0.1716	
									Infiltration		0.0				
600 minute summer	S7LB	510	2.883	0.322	6.1	0.3644	0.0000	SURCHARGED	Orifice	S7	6.1				
600 minute summer	S7	510	2.881	1.018	29.1	2.5920	0.0000	SURCHARGED	1.007	Basin	27.4	0.390	0.061	4.0764	
600 minute summer	Basin	510	2.881	1.041	27.4	176.4683	0.0000	SURCHARGED	1.008	S8	4.7	0.120	0.010	4.6332	
									Infiltration		0.1				
600 minute summer	S8	510	2.881	1.055	6.0	6.0436	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				203.9
600 minute summer	MH8951	15	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 600 minute winter. 840 minute analysis at 15 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)
600 minute winter	PCP1	315	3.038	0.297	3.1	0.0851	0.0000	SURCHARGED	1.000	S1L	3.1	0.586	0.512	0.0234	
									Infiltration		0.0				
600 minute winter	S1L	540	3.026	0.376	3.1	0.4257	0.0000	SURCHARGED	Orifice	S1	3.1				
600 minute winter	S1	570	3.015	0.858	4.1	1.5161	0.0000	SURCHARGED	1.002	S3	3.8	0.378	0.012	1.7436	
600 minute winter	PCP2	495	3.022	0.242	1.4	0.0684	0.0000	SURCHARGED	2.000	S2L	1.4	0.484	0.229	0.0482	
									Infiltration		0.0				
600 minute winter	S2L	495	3.022	0.354	1.4	0.3999	0.0000	SURCHARGED	Orifice	S2	1.4				
600 minute winter	S2	570	3.015	0.854	2.2	1.5091	0.0000	SURCHARGED	2.002	S3	1.8	0.359	0.006	2.3140	
600 minute winter	S3	570	3.015	1.021	7.3	2.5985	0.0000	SURCHARGED	1.003	S4	6.2	0.253	0.014	7.9151	
600 minute winter	S4	570	3.015	1.045	6.2	2.6596	0.0000	SURCHARGED	1.004	S5	5.7	0.182	0.013	8.3112	
600 minute winter	S5LA	570	3.015	0.217	4.2	0.2456	0.0000	SURCHARGED	3.000	S5	4.2	1.486	0.097	0.0779	
600 minute winter	PCP3	570	3.017	0.321	5.2	0.0910	0.0000	SURCHARGED	4.000	S5LB	5.2	0.407	0.291	0.0537	
									Infiltration		0.0				
600 minute winter	S5LB	570	3.017	0.352	5.2	0.3984	0.0000	SURCHARGED	Orifice	S5	5.2				
600 minute winter	S5	570	3.015	1.070	14.5	2.7232	0.0000	SURCHARGED	1.005	S6	13.9	0.287	0.031	13.2490	
600 minute winter	S6	570	3.015	1.110	16.5	2.8250	0.0000	SURCHARGED	1.006	S7	16.2	0.269	0.036	13.8101	
600 minute winter	PCP4	570	3.017	0.311	4.5	5.8200	0.0000	SURCHARGED	5.000	S7LA	4.5	0.466	0.253	0.2671	
									Infiltration		0.0				
600 minute winter	S7LA	570	3.017	0.463	4.5	0.5233	0.0000	SURCHARGED	Orifice	S7	4.5				
600 minute winter	PCP5	570	3.017	0.356	4.7	2.4976	0.0000	SURCHARGED	6.000	S7LB	4.7	0.467	0.261	0.1716	
									Infiltration		0.0				
600 minute winter	S7LB	570	3.017	0.456	4.7	0.5154	0.0000	SURCHARGED	Orifice	S7	4.7				
600 minute winter	S7	570	3.015	1.152	23.9	2.9319	0.0000	SURCHARGED	1.007	Basin	23.7	0.416	0.053	4.0764	
600 minute winter	Basin	570	3.015	1.175	23.7	211.2675	0.0000	SURCHARGED	1.008	S8	4.7	0.124	0.011	4.6332	
									Infiltration		0.1				
600 minute winter	S8	570	3.015	1.189	5.7	6.8083	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				214.0
600 minute winter	MH8951	15	1.786	0.000	5.0	0.0000	0.0000	OK							

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Results for 100 year +30% 720 minute winter. 960 minute analysis at 15 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)
720 minute winter	PCP1	525	3.006	0.265	2.7	0.0750	0.0000	SURCHARGED	1.000	S1L	2.7	0.593	0.446	0.0234	
									Infiltration		0.0				
720 minute winter	S1L	570	3.005	0.355	2.7	0.4019	0.0000	SURCHARGED	Orifice	S1	2.7				
720 minute winter	S1	660	2.996	0.839	3.6	1.4820	0.0000	SURCHARGED	1.002	S3	3.3	0.365	0.011	1.7436	
720 minute winter	PCP2	555	3.002	0.222	1.2	0.0629	0.0000	SURCHARGED	2.000	S2L	1.2	0.484	0.197	0.0482	
									Infiltration		0.0				
720 minute winter	S2L	555	3.002	0.334	1.2	0.3780	0.0000	SURCHARGED	Orifice	S2	1.2				
720 minute winter	S2	660	2.996	0.835	1.9	1.4750	0.0000	SURCHARGED	2.002	S3	1.6	0.359	0.005	2.3140	
720 minute winter	S3	660	2.996	1.002	6.4	2.5494	0.0000	SURCHARGED	1.003	S4	5.4	0.252	0.012	7.9151	
720 minute winter	S4	660	2.996	1.026	5.4	2.6105	0.0000	SURCHARGED	1.004	S5	5.0	0.176	0.011	8.3112	
720 minute winter	S5LA	660	2.996	0.198	3.7	0.2237	0.0000	SURCHARGED	3.000	S5	3.7	1.436	0.085	0.0779	
720 minute winter	PCP3	660	2.998	0.302	4.6	0.0855	0.0000	SURCHARGED	4.000	S5LB	4.6	0.407	0.257	0.0537	
									Infiltration		0.0				
720 minute winter	S5LB	660	2.998	0.333	4.6	0.3766	0.0000	SURCHARGED	Orifice	S5	4.6				
720 minute winter	S5	660	2.996	1.051	12.9	2.6741	0.0000	SURCHARGED	1.005	S6	11.8	0.280	0.026	13.2490	
720 minute winter	S6	660	2.996	1.091	14.2	2.7759	0.0000	SURCHARGED	1.006	S7	14.0	0.256	0.031	13.8101	
720 minute winter	PCP4	660	2.998	0.292	4.0	5.0573	0.0000	SURCHARGED	5.000	S7LA	4.0	0.465	0.225	0.2671	
									Infiltration		0.0				
720 minute winter	S7LA	660	2.997	0.443	4.0	0.5015	0.0000	SURCHARGED	Orifice	S7	4.0				
720 minute winter	PCP5	660	2.998	0.337	4.1	2.0118	0.0000	SURCHARGED	6.000	S7LB	4.1	0.466	0.228	0.1716	
									Infiltration		0.0				
720 minute winter	S7LB	660	2.997	0.436	4.1	0.4936	0.0000	SURCHARGED	Orifice	S7	4.1				
720 minute winter	S7	660	2.996	1.133	20.9	2.8828	0.0000	SURCHARGED	1.007	Basin	20.7	0.386	0.046	4.0764	
720 minute winter	Basin	660	2.996	1.156	20.7	206.0688	0.0000	SURCHARGED	1.008	S8	4.7	0.124	0.011	4.6332	
									Infiltration		0.1				
720 minute winter	S8	660	2.996	1.170	5.6	6.6978	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				242.7
720 minute winter	MH8951	15	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 960 minute summer. 1200 minute analysis at 15 minute timestep. Mass balance: 99.99%															
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	PCP1	495	2.991	0.250	2.9	0.0706	0.0000	SURCHARGED	1.000	S1L	2.9	0.593	0.478	0.0234	
									Infiltration		0.0				
960 minute summer	S1L	495	2.980	0.330	2.9	0.3728	0.0000	SURCHARGED	Orifice	S1	2.9				
960 minute summer	S1	705	2.816	0.659	3.8	1.1644	0.0000	SURCHARGED	1.002	S3	3.5	0.366	0.011	1.7436	
960 minute summer	PCP2	495	2.929	0.149	1.3	0.0423	0.0000	SURCHARGED	2.000	S2L	1.3	0.484	0.211	0.0482	
									Infiltration		0.0				
960 minute summer	S2L	495	2.926	0.258	1.3	0.2915	0.0000	SURCHARGED	Orifice	S2	1.3				
960 minute summer	S2	705	2.816	0.655	2.1	1.1573	0.0000	SURCHARGED	2.002	S3	1.7	0.359	0.006	2.3140	
960 minute summer	S3	705	2.816	0.822	6.8	2.0919	0.0000	SURCHARGED	1.003	S4	5.7	0.253	0.013	7.9151	
960 minute summer	S4	705	2.816	0.846	5.7	2.1530	0.0000	SURCHARGED	1.004	S5	4.3	0.188	0.010	8.3112	
960 minute summer	S5LA	495	2.830	0.032	3.9	0.0367	0.0000	OK	3.000	S5	3.9	1.456	0.090	0.0424	
960 minute summer	PCP3	690	2.818	0.122	4.9	0.0345	0.0000	OK	4.000	S5LB	4.9	0.407	0.274	0.0503	
									Infiltration		0.0				
960 minute summer	S5LB	690	2.818	0.153	4.9	0.1730	0.0000	SURCHARGED	Orifice	S5	4.9				
960 minute summer	S5	705	2.816	0.871	13.4	2.2166	0.0000	SURCHARGED	1.005	S6	11.8	0.269	0.026	13.2490	
960 minute summer	S6	705	2.816	0.911	14.6	2.3184	0.0000	SURCHARGED	1.006	S7	12.6	0.221	0.028	13.8101	
960 minute summer	PCP4	690	2.818	0.112	4.2	0.5286	0.0000	OK	5.000	S7LA	4.2	0.466	0.236	0.2401	
									Infiltration		0.0				
960 minute summer	S7LA	690	2.817	0.263	4.2	0.2979	0.0000	SURCHARGED	Orifice	S7	4.2				
960 minute summer	PCP5	705	2.818	0.157	4.4	0.0444	0.0000	SURCHARGED	6.000	S7LB	4.4	0.465	0.245	0.1716	
									Infiltration		0.0				
960 minute summer	S7LB	705	2.818	0.257	4.4	0.2903	0.0000	SURCHARGED	Orifice	S7	4.4				
960 minute summer	S7	705	2.816	0.953	21.2	2.4253	0.0000	SURCHARGED	1.007	Basin	20.0	0.375	0.045	4.0764	
960 minute summer	Basin	705	2.816	0.976	20.0	160.4115	0.0000	SURCHARGED	1.008	S8	4.7	0.123	0.011	4.6332	
									Infiltration		0.1				
960 minute summer	S8	705	2.816	0.990	5.7	5.6685	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				279.0
960 minute summer	MH8951	15	1.786	0.000	5.0	0.0000	0.0000	OK							

Results for 100 year +30% 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	PCP1	720	2.945	0.204	2.2	0.0578	0.0000	SURCHARGED	1.000	S1L	2.2	0.587	0.363	0.0234	
									Infiltration		0.0				
960 minute winter	S1L	720	2.945	0.295	2.2	0.3333	0.0000	SURCHARGED	Orifice	S1	2.2				
960 minute winter	S1	750	2.934	0.777	2.9	1.3734	0.0000	SURCHARGED	1.002	S3	2.7	0.365	0.009	1.7436	
960 minute winter	PCP2	705	2.941	0.161	0.9	0.0455	0.0000	SURCHARGED	2.000	S2L	0.9	0.484	0.149	0.0482	
									Infiltration		0.0				
960 minute winter	S2L	705	2.941	0.273	0.9	0.3083	0.0000	SURCHARGED	Orifice	S2	0.9				
960 minute winter	S2	750	2.934	0.773	1.5	1.3663	0.0000	SURCHARGED	2.002	S3	1.3	0.360	0.004	2.3140	
960 minute winter	S3	750	2.934	0.940	5.2	2.3929	0.0000	SURCHARGED	1.003	S4	4.4	0.253	0.010	7.9151	
960 minute winter	S4	750	2.934	0.964	4.4	2.4540	0.0000	SURCHARGED	1.004	S5	3.6	0.184	0.008	8.3112	
960 minute winter	S5LA	750	2.934	0.136	2.9	0.1542	0.0000	OK	3.000	S5	2.9	1.343	0.067	0.0762	
960 minute winter	PCP3	750	2.937	0.241	3.6	0.0681	0.0000	SURCHARGED	4.000	S5LB	3.6	0.407	0.201	0.0537	
									Infiltration		0.0				
960 minute winter	S5LB	750	2.936	0.271	3.6	0.3071	0.0000	SURCHARGED	Orifice	S5	3.6				
960 minute winter	S5	750	2.934	0.989	10.2	2.5176	0.0000	SURCHARGED	1.005	S6	9.2	0.268	0.020	13.2490	
960 minute winter	S6	750	2.934	1.029	11.3	2.6194	0.0000	SURCHARGED	1.006	S7	10.4	0.233	0.023	13.8101	
960 minute winter	PCP4	750	2.936	0.230	3.1	2.9879	0.0000	SURCHARGED	5.000	S7LA	3.1	0.452	0.174	0.2671	
									Infiltration		0.0				
960 minute winter	S7LA	750	2.936	0.382	3.1	0.4319	0.0000	SURCHARGED	Orifice	S7	3.1				
960 minute winter	PCP5	750	2.936	0.275	3.2	0.8237	0.0000	SURCHARGED	6.000	S7LB	3.2	0.456	0.178	0.1716	
									Infiltration		0.0				
960 minute winter	S7LB	750	2.936	0.375	3.2	0.4241	0.0000	SURCHARGED	Orifice	S7	3.2				
960 minute winter	S7	750	2.934	1.071	16.4	2.7263	0.0000	SURCHARGED	1.007	Basin	15.6	0.376	0.035	4.0764	
960 minute winter	Basin	750	2.934	1.094	15.6	189.8901	0.0000	SURCHARGED	1.008	S8	4.7	0.123	0.011	4.6332	
									Infiltration		0.1				
960 minute winter	S8	750	2.934	1.108	5.5	6.3458	0.0000	FLOOD RISK	Hydro-Brake®	MH8951	5.0				293.0
960 minute winter	MH8951	15	1.786	0.000	5.0	0.0000	0.0000	OK							

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Results for 100 year +30% 1440 minute winter. 1680 minute analysis at 30 minute timestep. Mass balance: 99.99%

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	PCP1	1050	2.829	0.088	1.5	0.0250	0.0000	OK	1.000	S1L	1.5	0.587	0.248	0.0226	
									Infiltration		0.0				
1440 minute winter	S1L	1050	2.829	0.179	1.5	0.2027	0.0000	SURCHARGED	Orifice	S1	1.5				
1440 minute winter	S1	1080	2.820	0.663	2.0	1.1722	0.0000	SURCHARGED	1.002	S3	1.9	0.365	0.006	1.7436	
1440 minute winter	PCP2	1080	2.827	0.047	0.7	0.0132	0.0000	OK	2.000	S2L	0.7	0.485	0.116	0.0352	
									Infiltration		0.0				
1440 minute winter	S2L	1080	2.827	0.159	0.7	0.1795	0.0000	SURCHARGED	Orifice	S2	0.7				
1440 minute winter	S2	1080	2.820	0.659	1.1	1.1651	0.0000	SURCHARGED	2.002	S3	0.9	0.358	0.003	2.3140	
1440 minute winter	S3	1080	2.820	0.826	3.6	2.1031	0.0000	SURCHARGED	1.003	S4	3.1	0.253	0.007	7.9151	
1440 minute winter	S4	1080	2.820	0.850	3.1	2.1642	0.0000	SURCHARGED	1.004	S5	2.6	0.187	0.006	8.3112	
1440 minute winter	S5LA	750	2.822	0.024	2.1	0.0266	0.0000	OK	3.000	S5	2.1	1.230	0.048	0.0426	
1440 minute winter	PCP3	1050	2.822	0.126	2.6	0.0357	0.0000	OK	4.000	S5LB	2.6	0.407	0.145	0.0510	
									Infiltration		0.0				
1440 minute winter	S5LB	1050	2.822	0.157	2.6	0.1778	0.0000	SURCHARGED	Orifice	S5	2.6				
1440 minute winter	S5	1080	2.820	0.875	7.4	2.2279	0.0000	SURCHARGED	1.005	S6	6.7	0.278	0.015	13.2490	
1440 minute winter	S6	1080	2.820	0.915	8.2	2.3297	0.0000	SURCHARGED	1.006	S7	7.4	0.216	0.016	13.8101	
1440 minute winter	PCP4	1080	2.822	0.116	2.2	0.5832	0.0000	OK	5.000	S7LA	2.2	0.426	0.124	0.2443	
									Infiltration		0.0				
1440 minute winter	S7LA	1080	2.822	0.268	2.2	0.3028	0.0000	SURCHARGED	Orifice	S7	2.2				
1440 minute winter	PCP5	1050	2.822	0.161	2.3	0.0455	0.0000	SURCHARGED	6.000	S7LB	2.3	0.430	0.128	0.1716	
									Infiltration		0.0				
1440 minute winter	S7LB	1050	2.822	0.261	2.3	0.2949	0.0000	SURCHARGED	Orifice	S7	2.3				
1440 minute winter	S7	1080	2.820	0.957	11.9	2.4365	0.0000	SURCHARGED	1.007	Basin	11.3	0.386	0.025	4.0764	
1440 minute winter	Basin	1080	2.820	0.980	11.3	161.4751	0.0000	SURCHARGED	1.008	S8	4.7	0.117	0.011	4.6332	
									Infiltration		0.1				
1440 minute winter	S8	1080	2.820	0.994	5.3	5.6938	0.0000	SURCHARGED	Hydro-Brake®	MH8951	5.0				386.7
1440 minute winter	MH8951	30	1.786	0.000	5.0	0.0000	0.0000	OK							

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					

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						
Twin 900						
Shape	Circular		Dia (mm)			
Barrels	2		900			
Height (mm)						
Width (mm)						
Side Slope (1:X)						
Auto Increment (mm)	150					
Preferred Cover (m)						
Steep Slope (1:X)						
Follow Ground	x					
Velocity	Default					
ks (mm) / n						
Twin 225						
Shape	Circular		Dia (mm)			
Barrels	2		225			

Height (mm)						
Width (mm)						
Side Slope (1:X)						
Auto Increment (mm)	150					
Preferred Cover (m)						
Steep Slope (1:X)						
Follow Ground	x					
Velocity	Default					
ks (mm) / n						
2.40mx0.80m Box Culvert						
Shape	Closed Rectangular		Dia (mm)			
Barrels	1		800			
Height (mm)						
Width (mm)	2400					
Side Slope (1:X)						
Auto Increment (mm)	250					
Preferred Cover (m)	0.750					
Steep Slope (1:X)						
Follow Ground	x					
Velocity	Default					
ks (mm) / n						