

C&W Cooper & Withycombe CONSULTING ENGINEERS	SHEET NO.	R1 OF	Rev B
	Holiday Cottages Longacre, Maypole Lane Yapton.BN18 0DR .Rear Drainage		Job No. 17 -1779 Prepared By BL Date Jan 2018
Rear Surface Water Drainage System			

Drainage Design Report

Flow

v4.0

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Network Storm Network
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Last analysed 23/02/2018 20:05:38
Report produced on 23/02/2018 20:09:29

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Rainfall Methodology	FSR
Return Period (years)	100
Additional Flow (%)	30
FSR Region	England and Wales
M5-60 (mm)	20.000
Ratio-R	0.360
CV	0.750
Time of Entry (mins)	1.00
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)	0.200
Preferred Cover Depth (m)	0.200
Enforce best practice design rules	✓

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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)	C.Offset (m)	Min DS IL (m)
?	1	SWM 7	SWM 8	5.000	0.600	Colebrook-White	6.670	6.590	0.080	62.5	100	Circular	1.09	50.0		
✓	2	SWM 8	SWM 9	5.000	0.600	Colebrook-White	6.590	6.500	0.090	55.6	100	Circular	1.17	50.0		
✓	3	SWM 9	SWM 10	1.500	0.600	Colebrook-White	6.500	6.480	0.020	75.0	150	Circular	1.24	50.0		
?	4	SWM 10	S2	3.000	0.600	Colebrook-White	6.480	6.430	0.050	60.0	100	Circular	1.29	50.0		
✓	5	SWM 11	SWM 12	1.000	0.600	Colebrook-White	6.720	6.700	0.020	50.0	100	Circular	1.02	50.0		
?	6	SWM 12	SWM 9	12.000	0.600	Colebrook-White	6.700	6.500	0.200	60.0	100	Circular	1.22	50.0		

	Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)	Notes
?	1	SWM 7	SWM 8	0.976	7.7	0.4	0.230	0.310	0.002	0.0	14	0.485	Velocity is less than the specified minimum
✓	2	SWM 8	SWM 9	1.035	8.1	0.9	0.310	0.300	0.005	0.0	22	0.675	
✓	3	SWM 9	SWM 10	1.162	20.5	1.8	0.250	0.270	0.010	0.0	30	0.710	
?	4	SWM 10	S2	0.996	7.8	1.8	0.320	0.370	0.010	0.0	32	0.806	Velocity is less than the specified minimum
✓	5	SWM 11	SWM 12	1.092	8.6	0.7	0.380	0.400	0.004	0.0	19	0.650	
?	6	SWM 12	SWM 9	0.996	7.8	0.9	0.400	0.300	0.005	0.0	23	0.663	Velocity is less than the specified minimum

Link ID	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 ID	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node ID	Dia (mm)	Width (mm)	Node Type	MH Type
1	5.000	62.5	100	Circular	7.000	6.670	0.230	7.000	6.590	0.310	SWM 7	600		Manhole	Adoptable	SWM 8	600		Manhole	Adoptable
2	5.000	55.6	100	Circular	7.000	6.590	0.310	6.900	6.500	0.300	SWM 8	600		Manhole	Adoptable	SWM 9	600		Manhole	Adoptable
3	1.500	75.0	150	Circular	6.900	6.500	0.250	6.900	6.480	0.270	SWM 9	600		Manhole	Adoptable	SWM 10	600		Manhole	Adoptable
4	3.000	60.0	100	Circular	6.900	6.480	0.320	6.900	6.430	0.370	SWM 10	600		Manhole	Adoptable	S2	600		Manhole	Adoptable
5	1.000	50.0	100	Circular	7.200	6.720	0.380	7.200	6.700	0.400	SWM 11	600		Manhole	Adoptable	SWM 12	600		Manhole	Adoptable
6	12.000	60.0	100	Circular	7.200	6.700	0.400	6.900	6.500	0.300	SWM 12	600		Manhole	Adoptable	SWM 9	600		Manhole	Adoptable

Rainfall Methodology	FSR		Return Period (years)	Climate Change (%)
FSR Region	England and Wales		100	30
M5-60 (mm)	20.000			
Ratio-R	0.360			
Summer CV	0.750			
Winter CV	0.840			
Analysis Speed	Normal			
Drain Down Time (mins)	1440			
Additional Storage (m³/ha)	20.0			
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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Node	Base Infiltration Coefficient (m/hr)	Side Infiltration Coefficient (m/hr)	Safety Factor	Porosity	Invert Level (m)	Time to half empty (mins)	Pit Width (m)	Pit Length (m)	Depth (m)	Inf. Depth (m)	Number Required
S2	0.01282	0.01282	2.0	0.95	6.350	1472	2.000	8.000	2.135	1.600	1

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100 year 360 minute (m³)	0
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Results for 1 year Critical Storm Duration. Lowest mass balance: 99.28%															
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	SWM 7	8	6.685	0.015	0.4	0.0059	0.0000	OK	1	SWM 8	0.4	0.351	0.046	0.0052	
15 minute summer	SWM 8	8	6.613	0.023	1.1	0.0098	0.0000	OK	2	SWM 9	0.9	0.543	0.113	0.0092	
15 minute summer	SWM 9	9	6.535	0.035	1.8	0.0098	0.0000	OK	3	SWM 10	1.8	0.590	0.088	0.0047	
15 minute summer	SWM 10	9	6.516	0.036	1.8	0.0101	0.0000	OK	4	S2	1.8	0.767	0.232	0.0071	
15 minute summer	SWM 11	8	6.744	0.024	0.9	0.0107	0.0000	OK	5	SWM 12	0.8	0.592	0.094	0.0014	
15 minute summer	SWM 12	9	6.723	0.023	1.0	0.0073	0.0000	OK	6	SWM 9	0.9	0.519	0.112	0.0225	
240 minute winter	S2	172	6.418	-0.012	0.3	1.0318	0.0000	OK	Infiltration		0.0				

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.28%															
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	SWM 7	8	6.694	0.024	1.1	0.0099	0.0000	OK	1	SWM 8	1.0	0.468	0.130	0.0107	
15 minute summer	SWM 8	8	6.629	0.039	2.6	0.0167	0.0000	OK	2	SWM 9	2.3	0.640	0.287	0.0184	
15 minute summer	SWM 9	9	6.561	0.061	4.6	0.0172	0.0000	OK	3	SWM 10	4.5	0.690	0.217	0.0103	
15 minute summer	SWM 10	9	6.543	0.063	4.5	0.0178	0.0000	OK	4	S2	4.6	0.960	0.590	0.0144	
15 minute summer	SWM 11	8	6.760	0.040	2.2	0.0181	0.0000	OK	5	SWM 12	2.0	0.725	0.236	0.0028	
15 minute summer	SWM 12	8	6.737	0.037	2.5	0.0120	0.0000	OK	6	SWM 9	2.3	0.642	0.291	0.0446	
240 minute winter	S2	196	6.538	0.108	0.7	2.8907	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% Critical Storm Duration. Lowest mass balance: 99.28%															
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	SWM 7	8	6.702	0.032	1.8	0.0129	0.0000	OK	1	SWM 8	1.7	0.515	0.218	0.0164	
480 minute winter	SWM 8	392	6.692	0.102	0.3	0.0436	0.0000	SURCHARGED	2	SWM 9	0.3	0.371	0.039	0.0391	
480 minute winter	SWM 9	392	6.692	0.192	1.1	0.0542	0.0000	FLOOD RISK	3	SWM 10	0.7	0.469	0.033	0.0264	
480 minute winter	SWM 10	392	6.691	0.211	0.7	0.0598	0.0000	FLOOD RISK	4	S2	1.0	0.562	0.132	0.0235	
15 minute summer	SWM 11	8	6.775	0.055	3.6	0.0249	0.0000	OK	5	SWM 12	3.4	0.801	0.391	0.0042	
15 minute summer	SWM 12	8	6.750	0.050	4.3	0.0162	0.0000	OK	6	SWM 9	3.9	0.713	0.501	0.0670	
480 minute winter	S2	392	6.692	0.262	1.0	5.2692	0.0000	OK	Infiltration		0.0				

Results for 1 year 15 minute summer. 1455 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	SWM 7	8	6.685	0.015	0.4	0.0059	0.0000	OK	1	SWM 8	0.4	0.351	0.046	0.0052	
15 minute summer	SWM 8	8	6.613	0.023	1.1	0.0098	0.0000	OK	2	SWM 9	0.9	0.543	0.113	0.0092	
15 minute summer	SWM 9	9	6.535	0.035	1.8	0.0098	0.0000	OK	3	SWM 10	1.8	0.590	0.088	0.0047	
15 minute summer	SWM 10	9	6.516	0.036	1.8	0.0101	0.0000	OK	4	S2	1.8	0.767	0.232	0.0071	
15 minute summer	SWM 11	8	6.744	0.024	0.9	0.0107	0.0000	OK	5	SWM 12	0.8	0.592	0.094	0.0014	
15 minute summer	SWM 12	9	6.723	0.023	1.0	0.0073	0.0000	OK	6	SWM 9	0.9	0.519	0.112	0.0225	
15 minute summer	S2	25	6.384	-0.046	1.8	0.5147	0.0000	OK	Infiltration		0.0				

Results for 1 year 15 minute winter. 1455 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	SWM 7	9	6.684	0.014	0.3	0.0055	0.0000	OK	1	SWM 8	0.3	0.344	0.039	0.0045	
15 minute winter	SWM 8	8	6.611	0.021	0.8	0.0088	0.0000	OK	2	SWM 9	0.8	0.497	0.093	0.0082	
15 minute winter	SWM 9	9	6.532	0.032	1.5	0.0090	0.0000	OK	3	SWM 10	1.5	0.564	0.075	0.0042	
15 minute winter	SWM 10	9	6.513	0.033	1.5	0.0092	0.0000	OK	4	S2	1.5	0.736	0.197	0.0063	
15 minute winter	SWM 11	8	6.741	0.021	0.7	0.0096	0.0000	OK	5	SWM 12	0.7	0.543	0.078	0.0012	
15 minute winter	SWM 12	8	6.721	0.021	0.9	0.0069	0.0000	OK	6	SWM 9	0.8	0.495	0.101	0.0202	
15 minute winter	S2	24	6.387	-0.043	1.5	0.5693	0.0000	OK	Infiltration		0.0				

Results for 1 year 30 minute summer. 1470 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	SWM 7	16	6.683	0.013	0.3	0.0054	0.0000	OK	1	SWM 8	0.3	0.349	0.039	0.0043	
30 minute summer	SWM 8	16	6.610	0.020	0.7	0.0084	0.0000	OK	2	SWM 9	0.7	0.472	0.084	0.0074	
30 minute summer	SWM 9	16	6.529	0.029	1.4	0.0082	0.0000	OK	3	SWM 10	1.3	0.549	0.063	0.0036	
30 minute summer	SWM 10	17	6.510	0.030	1.3	0.0084	0.0000	OK	4	S2	1.3	0.708	0.169	0.0056	
30 minute summer	SWM 11	16	6.740	0.020	0.6	0.0090	0.0000	OK	5	SWM 12	0.6	0.537	0.070	0.0011	
30 minute summer	SWM 12	16	6.720	0.020	0.7	0.0065	0.0000	OK	6	SWM 9	0.7	0.460	0.087	0.0179	
30 minute summer	S2	37	6.393	-0.037	1.3	0.6597	0.0000	OK	Infiltration		0.0				

Results for 1 year 30 minute winter. 1470 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	SWM 7	18	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.319	0.026	0.0034	
30 minute winter	SWM 8	18	6.607	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.437	0.061	0.0062	
30 minute winter	SWM 9	17	6.526	0.026	1.1	0.0074	0.0000	OK	3	SWM 10	1.1	0.520	0.052	0.0031	
30 minute winter	SWM 10	17	6.507	0.027	1.1	0.0076	0.0000	OK	4	S2	1.1	0.671	0.138	0.0048	
30 minute winter	SWM 11	16	6.738	0.018	0.5	0.0082	0.0000	OK	5	SWM 12	0.5	0.505	0.058	0.0010	
30 minute winter	SWM 12	16	6.719	0.019	0.6	0.0060	0.0000	OK	6	SWM 9	0.6	0.454	0.075	0.0157	
30 minute winter	S2	36	6.399	-0.031	1.1	0.7432	0.0000	OK	Infiltration		0.0				

Results for 1 year 60 minute summer. 1500 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	SWM 7	32	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.319	0.026	0.0034	
60 minute summer	SWM 8	32	6.607	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.429	0.061	0.0060	
60 minute summer	SWM 9	32	6.525	0.025	1.0	0.0071	0.0000	OK	3	SWM 10	1.0	0.510	0.049	0.0029	
60 minute summer	SWM 10	32	6.506	0.026	1.0	0.0073	0.0000	OK	4	S2	1.0	0.656	0.127	0.0046	
60 minute summer	SWM 11	32	6.736	0.016	0.4	0.0073	0.0000	OK	5	SWM 12	0.4	0.476	0.047	0.0009	
60 minute summer	SWM 12	32	6.717	0.017	0.5	0.0056	0.0000	OK	6	SWM 9	0.5	0.450	0.064	0.0145	
60 minute summer	S2	54	6.399	-0.031	1.0	0.7506	0.0000	OK	Infiltration		0.0				

Results for 1 year 60 minute winter. 1500 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	SWM 7	31	6.681	0.011	0.2	0.0044	0.0000	OK	1	SWM 8	0.2	0.328	0.025	0.0029	
60 minute winter	SWM 8	31	6.605	0.015	0.4	0.0063	0.0000	OK	2	SWM 9	0.4	0.391	0.046	0.0049	
60 minute winter	SWM 9	32	6.522	0.022	0.8	0.0062	0.0000	OK	3	SWM 10	0.8	0.481	0.038	0.0024	
60 minute winter	SWM 10	32	6.502	0.022	0.8	0.0064	0.0000	OK	4	S2	0.8	0.614	0.099	0.0038	
60 minute winter	SWM 11	33	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.476	0.035	0.0007	
60 minute winter	SWM 12	34	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.450	0.051	0.0121	
60 minute winter	S2	61	6.410	-0.020	0.8	0.9110	0.0000	OK	Infiltration		0.0				

Results for 1 year 120 minute summer. 1560 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	SWM 7	62	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.268	0.013	0.0023	
120 minute summer	SWM 8	62	6.603	0.013	0.3	0.0057	0.0000	OK	2	SWM 9	0.3	0.374	0.037	0.0044	
120 minute summer	SWM 9	62	6.521	0.021	0.7	0.0058	0.0000	OK	3	SWM 10	0.7	0.469	0.034	0.0022	
120 minute summer	SWM 10	62	6.501	0.021	0.7	0.0060	0.0000	OK	4	S2	0.7	0.594	0.088	0.0035	
120 minute summer	SWM 11	62	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.428	0.035	0.0007	
120 minute summer	SWM 12	62	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.441	0.051	0.0115	
120 minute summer	S2	90	6.401	-0.029	0.7	0.7766	0.0000	OK	Infiltration		0.0				

Results for 1 year 120 minute winter. 1560 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	SWM 7	56	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.268	0.013	0.0019	
120 minute winter	SWM 8	56	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0031	
120 minute winter	SWM 9	62	6.515	0.015	0.4	0.0044	0.0000	OK	3	SWM 10	0.4	0.410	0.019	0.0015	
120 minute winter	SWM 10	62	6.496	0.016	0.4	0.0045	0.0000	OK	4	S2	0.4	0.510	0.051	0.0024	
120 minute winter	SWM 11	54	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.428	0.023	0.0005	
120 minute winter	SWM 12	60	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.441	0.026	0.0074	
120 minute winter	S2	98	6.409	-0.021	0.4	0.9003	0.0000	OK	Infiltration		0.0				

Results for 1 year 180 minute summer. 1620 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	SWM 7	92	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0022	
180 minute summer	SWM 8	92	6.603	0.013	0.3	0.0056	0.0000	OK	2	SWM 9	0.3	0.371	0.035	0.0039	
180 minute summer	SWM 9	92	6.518	0.018	0.6	0.0052	0.0000	OK	3	SWM 10	0.5	0.448	0.027	0.0018	
180 minute summer	SWM 10	92	6.498	0.018	0.5	0.0052	0.0000	OK	4	S2	0.5	0.551	0.068	0.0029	
180 minute summer	SWM 11	96	6.731	0.011	0.2	0.0050	0.0000	OK	5	SWM 12	0.2	0.444	0.023	0.0005	
180 minute summer	SWM 12	92	6.713	0.013	0.3	0.0042	0.0000	OK	6	SWM 9	0.3	0.366	0.037	0.0095	
180 minute summer	S2	124	6.402	-0.028	0.5	0.7922	0.0000	OK	Infiltration		0.0				

Results for 1 year 180 minute winter. 1620 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	SWM 7	88	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
180 minute winter	SWM 8	88	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0027	
180 minute winter	SWM 9	88	6.513	0.013	0.3	0.0038	0.0000	OK	3	SWM 10	0.3	0.381	0.015	0.0012	
180 minute winter	SWM 10	92	6.494	0.014	0.3	0.0039	0.0000	OK	4	S2	0.3	0.470	0.038	0.0019	
180 minute winter	SWM 11	72	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.444	0.012	0.0003	
180 minute winter	SWM 12	60	6.708	0.008	0.1	0.0027	0.0000	OK	6	SWM 9	0.1	0.353	0.013	0.0055	
180 minute winter	S2	136	6.411	-0.019	0.3	0.9301	0.0000	OK	Infiltration		0.0				

Results for 1 year 240 minute summer. 1680 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	SWM 7	120	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
240 minute summer	SWM 8	120	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0031	
240 minute summer	SWM 9	124	6.515	0.015	0.4	0.0044	0.0000	OK	3	SWM 10	0.4	0.409	0.019	0.0015	
240 minute summer	SWM 10	124	6.496	0.016	0.4	0.0045	0.0000	OK	4	S2	0.4	0.510	0.051	0.0023	
240 minute summer	SWM 11	124	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.444	0.023	0.0005	
240 minute summer	SWM 12	124	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.353	0.026	0.0074	
240 minute summer	S2	160	6.404	-0.026	0.4	0.8276	0.0000	OK	Infiltration		0.0				

Results for 1 year 240 minute winter. 1680 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	SWM 7	120	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
240 minute winter	SWM 8	120	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0027	
240 minute winter	SWM 9	120	6.513	0.013	0.3	0.0038	0.0000	OK	3	SWM 10	0.3	0.381	0.015	0.0012	
240 minute winter	SWM 10	124	6.494	0.014	0.3	0.0039	0.0000	OK	4	S2	0.3	0.470	0.038	0.0019	
240 minute winter	SWM 11	96	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.444	0.012	0.0003	
240 minute winter	SWM 12	84	6.708	0.008	0.1	0.0027	0.0000	OK	6	SWM 9	0.1	0.353	0.013	0.0055	
240 minute winter	S2	172	6.418	-0.012	0.3	1.0318	0.0000	OK	Infiltration		0.0				

Results for 1 year 360 minute summer. 1800 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	SWM 7	184	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
360 minute summer	SWM 8	192	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0027	
360 minute summer	SWM 9	192	6.513	0.013	0.3	0.0038	0.0000	OK	3	SWM 10	0.3	0.381	0.015	0.0012	
360 minute summer	SWM 10	192	6.494	0.014	0.3	0.0039	0.0000	OK	4	S2	0.3	0.470	0.038	0.0019	
360 minute summer	SWM 11	168	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
360 minute summer	SWM 12	168	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.390	0.013	0.0055	
360 minute summer	S2	224	6.404	-0.026	0.3	0.8166	0.0000	OK	Infiltration		0.0				

Results for 1 year 360 minute winter. 1800 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	SWM 7	8	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
360 minute winter	SWM 8	168	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
360 minute winter	SWM 9	168	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
360 minute winter	SWM 10	168	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0014	
360 minute winter	SWM 11	160	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
360 minute winter	SWM 12	144	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.390	0.013	0.0045	
360 minute winter	S2	240	6.411	-0.019	0.2	0.9211	0.0000	OK	Infiltration		0.0				

Results for 1 year 480 minute summer. 1920 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	SWM 7	8	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
480 minute summer	SWM 8	240	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
480 minute summer	SWM 9	240	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
480 minute summer	SWM 10	240	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0014	
480 minute summer	SWM 11	232	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
480 minute summer	SWM 12	216	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.390	0.013	0.0045	
480 minute summer	S2	288	6.395	-0.035	0.2	0.6788	0.0000	OK	Infiltration		0.0				

Results for 1 year 480 minute winter. 1920 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	SWM 7	8	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
480 minute winter	SWM 8	240	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
480 minute winter	SWM 9	240	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
480 minute winter	SWM 10	240	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0014	
480 minute winter	SWM 11	232	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
480 minute winter	SWM 12	216	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.390	0.013	0.0045	
480 minute winter	S2	304	6.404	-0.026	0.2	0.8247	0.0000	OK	Infiltration		0.0				

Results for 1 year 600 minute summer. 2040 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	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
600 minute summer	SWM 8	315	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
600 minute summer	SWM 9	315	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
600 minute summer	SWM 10	315	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0014	
600 minute summer	SWM 11	300	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
600 minute summer	SWM 12	285	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0045	
600 minute summer	S2	360	6.391	-0.039	0.2	0.6275	0.0000	OK	Infiltration		0.0				

Results for 1 year 600 minute winter. 2040 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	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
600 minute winter	SWM 8	15	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0007	
600 minute winter	SWM 9	285	6.508	0.008	0.1	0.0022	0.0000	OK	3	SWM 10	0.1	0.281	0.005	0.0005	
600 minute winter	SWM 10	300	6.488	0.008	0.1	0.0023	0.0000	OK	4	S2	0.1	0.340	0.013	0.0009	
600 minute winter	SWM 11	285	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.344	0.012	0.0003	
600 minute winter	SWM 12	285	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0035	
600 minute winter	S2	360	6.381	-0.049	0.1	0.4677	0.0000	OK	Infiltration		0.0				

Results for 1 year 720 minute summer. 2160 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	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
720 minute summer	SWM 8	375	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
720 minute summer	SWM 9	375	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
720 minute summer	SWM 10	375	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0014	
720 minute summer	SWM 11	360	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
720 minute summer	SWM 12	345	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0045	
720 minute summer	S2	420	6.391	-0.039	0.2	0.6275	0.0000	OK	Infiltration		0.0				

Results for 1 year 720 minute winter. 2160 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	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
720 minute winter	SWM 8	15	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0007	
720 minute winter	SWM 9	345	6.508	0.008	0.1	0.0022	0.0000	OK	3	SWM 10	0.1	0.281	0.005	0.0005	
720 minute winter	SWM 10	360	6.488	0.008	0.1	0.0023	0.0000	OK	4	S2	0.1	0.340	0.013	0.0009	
720 minute winter	SWM 11	345	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.344	0.012	0.0003	
720 minute winter	SWM 12	345	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0035	
720 minute winter	S2	420	6.381	-0.049	0.1	0.4677	0.0000	OK	Infiltration		0.0				

Results for 1 year 960 minute summer. 2400 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	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
960 minute summer	SWM 8	15	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0007	
960 minute summer	SWM 9	480	6.508	0.008	0.1	0.0022	0.0000	OK	3	SWM 10	0.1	0.281	0.005	0.0005	
960 minute summer	SWM 10	495	6.488	0.008	0.1	0.0023	0.0000	OK	4	S2	0.1	0.340	0.013	0.0009	
960 minute summer	SWM 11	480	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.344	0.012	0.0003	
960 minute summer	SWM 12	480	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0035	
960 minute summer	S2	540	6.371	-0.059	0.1	0.3176	0.0000	OK	Infiltration		0.0				

Results for 1 year 960 minute winter. 2400 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	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 8	15	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 9	15	6.500	0.000	0.0	0.0000	0.0000	OK	3	SWM 10	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 10	15	6.480	0.000	0.0	0.0000	0.0000	OK	4	S2	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 11	15	6.720	0.000	0.0	0.0000	0.0000	OK	5	SWM 12	0.0	0.000	0.000	0.0000	
960 minute winter	SWM 12	15	6.700	0.000	0.0	0.0000	0.0000	OK	6	SWM 9	0.0	0.000	0.000	0.0000	
960 minute winter	S2	15	6.350	-0.080	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 1 year 1440 minute summer. 2880 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	SWM 7	30	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 8	30	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 9	30	6.500	0.000	0.0	0.0000	0.0000	OK	3	SWM 10	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 10	30	6.480	0.000	0.0	0.0000	0.0000	OK	4	S2	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 11	30	6.720	0.000	0.0	0.0000	0.0000	OK	5	SWM 12	0.0	0.000	0.000	0.0000	
1440 minute summer	SWM 12	30	6.700	0.000	0.0	0.0000	0.0000	OK	6	SWM 9	0.0	0.000	0.000	0.0000	
1440 minute summer	S2	30	6.350	-0.080	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 1 year 1440 minute winter. 2880 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	SWM 7	30	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 8	30	6.590	0.000	0.0	0.0000	0.0000	OK	2	SWM 9	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 9	30	6.500	0.000	0.0	0.0000	0.0000	OK	3	SWM 10	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 10	30	6.480	0.000	0.0	0.0000	0.0000	OK	4	S2	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 11	30	6.720	0.000	0.0	0.0000	0.0000	OK	5	SWM 12	0.0	0.000	0.000	0.0000	
1440 minute winter	SWM 12	30	6.700	0.000	0.0	0.0000	0.0000	OK	6	SWM 9	0.0	0.000	0.000	0.0000	
1440 minute winter	S2	30	6.350	-0.080	0.0	0.0000	0.0000	OK	Infiltration		0.0				

Results for 30 year 15 minute summer. 1455 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	SWM 7	8	6.694	0.024	1.1	0.0099	0.0000	OK	1	SWM 8	1.0	0.468	0.130	0.0107	
15 minute summer	SWM 8	8	6.629	0.039	2.6	0.0167	0.0000	OK	2	SWM 9	2.3	0.640	0.287	0.0184	
15 minute summer	SWM 9	9	6.561	0.061	4.6	0.0172	0.0000	OK	3	SWM 10	4.5	0.690	0.217	0.0103	
15 minute summer	SWM 10	9	6.543	0.063	4.5	0.0178	0.0000	OK	4	S2	4.6	0.960	0.590	0.0144	
15 minute summer	SWM 11	8	6.760	0.040	2.2	0.0181	0.0000	OK	5	SWM 12	2.0	0.725	0.236	0.0028	
15 minute summer	SWM 12	8	6.737	0.037	2.5	0.0120	0.0000	OK	6	SWM 9	2.3	0.642	0.291	0.0446	
15 minute summer	S2	23	6.437	0.007	4.6	1.3285	0.0000	OK	Infiltration		0.0				

Results for 30 year 15 minute winter. 1455 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	SWM 7	8	6.691	0.021	0.8	0.0087	0.0000	OK	1	SWM 8	0.8	0.425	0.101	0.0092	
15 minute winter	SWM 8	8	6.625	0.035	2.1	0.0150	0.0000	OK	2	SWM 9	2.0	0.590	0.244	0.0170	
15 minute winter	SWM 9	9	6.556	0.056	4.0	0.0159	0.0000	OK	3	SWM 10	4.0	0.662	0.193	0.0091	
15 minute winter	SWM 10	9	6.537	0.057	4.0	0.0162	0.0000	OK	4	S2	4.0	0.929	0.511	0.0129	
15 minute winter	SWM 11	8	6.756	0.036	1.7	0.0161	0.0000	OK	5	SWM 12	1.7	0.673	0.193	0.0025	
15 minute winter	SWM 12	8	6.734	0.034	2.1	0.0111	0.0000	OK	6	SWM 9	2.0	0.597	0.255	0.0415	
15 minute winter	S2	23	6.448	0.018	4.0	1.4882	0.0000	OK	Infiltration		0.0				

Results for 30 year 30 minute summer. 1470 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	SWM 7	16	6.690	0.020	0.7	0.0083	0.0000	OK	1	SWM 8	0.7	0.419	0.091	0.0084	
30 minute summer	SWM 8	16	6.623	0.033	1.8	0.0140	0.0000	OK	2	SWM 9	1.8	0.576	0.220	0.0158	
30 minute summer	SWM 9	16	6.552	0.052	3.6	0.0147	0.0000	OK	3	SWM 10	3.5	0.648	0.171	0.0081	
30 minute summer	SWM 10	16	6.532	0.052	3.5	0.0148	0.0000	OK	4	S2	3.4	0.896	0.440	0.0115	
30 minute summer	SWM 11	16	6.753	0.033	1.4	0.0147	0.0000	OK	5	SWM 12	1.4	0.635	0.163	0.0022	
30 minute summer	SWM 12	16	6.733	0.033	1.8	0.0105	0.0000	OK	6	SWM 9	1.8	0.580	0.229	0.0378	
30 minute summer	S2	38	6.463	0.033	3.4	1.7239	0.0000	OK	Infiltration		0.0				

Results for 30 year 30 minute winter. 1470 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	SWM 7	16	6.689	0.019	0.6	0.0077	0.0000	OK	1	SWM 8	0.6	0.426	0.078	0.0071	
30 minute winter	SWM 8	16	6.618	0.028	1.4	0.0121	0.0000	OK	2	SWM 9	1.4	0.545	0.172	0.0130	
30 minute winter	SWM 9	16	6.545	0.045	2.8	0.0127	0.0000	OK	3	SWM 10	2.8	0.622	0.135	0.0067	
30 minute winter	SWM 10	17	6.525	0.045	2.8	0.0129	0.0000	OK	4	S2	2.8	0.852	0.353	0.0097	
30 minute winter	SWM 11	16	6.748	0.028	1.1	0.0128	0.0000	OK	5	SWM 12	1.1	0.598	0.128	0.0018	
30 minute winter	SWM 12	16	6.729	0.029	1.4	0.0092	0.0000	OK	6	SWM 9	1.4	0.536	0.178	0.0315	
30 minute winter	S2	37	6.482	0.052	2.8	2.0244	0.0000	OK	Infiltration		0.0				

Results for 30 year 60 minute summer. 1500 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	SWM 7	31	6.687	0.017	0.5	0.0070	0.0000	OK	1	SWM 8	0.5	0.401	0.065	0.0063	
60 minute summer	SWM 8	31	6.616	0.026	1.2	0.0111	0.0000	OK	2	SWM 9	1.2	0.529	0.147	0.0115	
60 minute summer	SWM 9	31	6.541	0.041	2.4	0.0115	0.0000	OK	3	SWM 10	2.3	0.607	0.114	0.0058	
60 minute summer	SWM 10	31	6.521	0.041	2.3	0.0116	0.0000	OK	4	S2	2.3	0.817	0.296	0.0085	
60 minute summer	SWM 11	31	6.747	0.027	1.0	0.0120	0.0000	OK	5	SWM 12	1.0	0.600	0.116	0.0017	
60 minute summer	SWM 12	31	6.726	0.026	1.2	0.0085	0.0000	OK	6	SWM 9	1.2	0.519	0.152	0.0278	
60 minute summer	S2	66	6.491	0.061	2.3	2.1583	0.0000	OK	Infiltration		0.0				

Results for 30 year 60 minute winter. 1500 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	SWM 7	32	6.686	0.016	0.4	0.0063	0.0000	OK	1	SWM 8	0.4	0.386	0.052	0.0052	
60 minute winter	SWM 8	32	6.613	0.023	0.9	0.0097	0.0000	OK	2	SWM 9	0.9	0.487	0.111	0.0093	
60 minute winter	SWM 9	32	6.535	0.035	1.8	0.0099	0.0000	OK	3	SWM 10	1.8	0.575	0.088	0.0047	
60 minute winter	SWM 10	32	6.515	0.035	1.8	0.0100	0.0000	OK	4	S2	1.8	0.766	0.230	0.0124	
60 minute winter	SWM 11	32	6.742	0.022	0.7	0.0099	0.0000	OK	5	SWM 12	0.7	0.535	0.082	0.0013	
60 minute winter	SWM 12	33	6.723	0.023	0.9	0.0074	0.0000	OK	6	SWM 9	0.9	0.492	0.115	0.0226	
60 minute winter	S2	64	6.507	0.077	1.8	2.4112	0.0000	OK	Infiltration		0.0				

Results for 30 year 120 minute summer. 1560 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	SWM 7	62	6.684	0.014	0.3	0.0055	0.0000	OK	1	SWM 8	0.3	0.350	0.039	0.0043	
120 minute summer	SWM 8	64	6.610	0.020	0.7	0.0085	0.0000	OK	2	SWM 9	0.7	0.472	0.086	0.0077	
120 minute summer	SWM 9	62	6.530	0.030	1.4	0.0085	0.0000	OK	3	SWM 10	1.4	0.547	0.068	0.0038	
120 minute summer	SWM 10	62	6.511	0.031	1.4	0.0087	0.0000	OK	4	S2	1.4	0.717	0.178	0.0128	
120 minute summer	SWM 11	62	6.740	0.020	0.6	0.0090	0.0000	OK	5	SWM 12	0.6	0.534	0.070	0.0011	
120 minute summer	SWM 12	62	6.720	0.020	0.7	0.0065	0.0000	OK	6	SWM 9	0.7	0.453	0.089	0.0187	
120 minute summer	S2	124	6.509	0.079	1.4	2.4339	0.0000	OK	Infiltration		0.0				

Results for 30 year 120 minute winter. 1560 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	SWM 7	56	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.324	0.026	0.0034	
120 minute winter	SWM 8	56	6.607	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.438	0.061	0.0061	
120 minute winter	SWM 9	122	6.534	0.034	1.0	0.0098	0.0000	OK	3	SWM 10	1.0	0.534	0.049	0.0066	
120 minute winter	SWM 10	114	6.535	0.055	1.0	0.0155	0.0000	OK	4	S2	1.2	0.657	0.150	0.0183	
120 minute winter	SWM 11	58	6.736	0.016	0.4	0.0073	0.0000	OK	5	SWM 12	0.4	0.468	0.047	0.0009	
120 minute winter	SWM 12	60	6.717	0.017	0.5	0.0056	0.0000	OK	6	SWM 9	0.5	0.423	0.064	0.0157	
120 minute winter	S2	120	6.535	0.105	1.2	2.8347	0.0000	OK	Infiltration		0.0				

Results for 30 year 180 minute summer. 1620 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	SWM 7	92	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.327	0.026	0.0034	
180 minute summer	SWM 8	92	6.607	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.425	0.061	0.0062	
180 minute summer	SWM 9	92	6.526	0.026	1.1	0.0074	0.0000	OK	3	SWM 10	1.1	0.518	0.052	0.0031	
180 minute summer	SWM 10	148	6.513	0.033	1.1	0.0092	0.0000	OK	4	S2	1.1	0.668	0.136	0.0135	
180 minute summer	SWM 11	92	6.738	0.018	0.5	0.0081	0.0000	OK	5	SWM 12	0.5	0.503	0.057	0.0010	
180 minute summer	SWM 12	92	6.718	0.018	0.6	0.0060	0.0000	OK	6	SWM 9	0.6	0.449	0.074	0.0157	
180 minute summer	S2	152	6.512	0.082	1.1	2.4809	0.0000	OK	Infiltration		0.0				

Results for 30 year 180 minute winter. 1620 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	SWM 7	92	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.330	0.026	0.0030	
180 minute winter	SWM 8	92	6.605	0.015	0.4	0.0065	0.0000	OK	2	SWM 9	0.4	0.399	0.049	0.0068	
180 minute winter	SWM 9	172	6.538	0.038	0.8	0.0107	0.0000	OK	3	SWM 10	0.8	0.505	0.039	0.0073	
180 minute winter	SWM 10	172	6.538	0.058	1.0	0.0163	0.0000	OK	4	S2	0.8	0.619	0.103	0.0187	
180 minute winter	SWM 11	84	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.444	0.035	0.0007	
180 minute winter	SWM 12	84	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.418	0.051	0.0176	
180 minute winter	S2	172	6.538	0.108	0.8	2.8836	0.0000	OK	Infiltration		0.0				

Results for 30 year 240 minute summer. 1680 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	SWM 7	124	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.327	0.026	0.0034	
240 minute summer	SWM 8	124	6.607	0.017	0.5	0.0072	0.0000	OK	2	SWM 9	0.5	0.425	0.061	0.0060	
240 minute summer	SWM 9	124	6.525	0.025	1.0	0.0071	0.0000	OK	3	SWM 10	1.0	0.509	0.049	0.0029	
240 minute summer	SWM 10	188	6.507	0.027	1.0	0.0077	0.0000	OK	4	S2	1.0	0.657	0.128	0.0123	
240 minute summer	SWM 11	124	6.736	0.016	0.4	0.0073	0.0000	OK	5	SWM 12	0.4	0.468	0.047	0.0009	
240 minute summer	SWM 12	124	6.717	0.017	0.5	0.0056	0.0000	OK	6	SWM 9	0.5	0.416	0.064	0.0146	
240 minute summer	S2	184	6.507	0.077	1.0	2.4138	0.0000	OK	Infiltration		0.0				

Results for 30 year 240 minute winter. 1680 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	SWM 7	88	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0023	
240 minute winter	SWM 8	108	6.603	0.013	0.3	0.0057	0.0000	OK	2	SWM 9	0.3	0.371	0.037	0.0068	
240 minute winter	SWM 9	196	6.538	0.038	0.7	0.0107	0.0000	OK	3	SWM 10	0.8	0.477	0.037	0.0073	
240 minute winter	SWM 10	196	6.538	0.058	0.9	0.0164	0.0000	OK	4	S2	0.7	0.597	0.090	0.0188	
240 minute winter	SWM 11	124	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.444	0.035	0.0007	
240 minute winter	SWM 12	124	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.418	0.051	0.0177	
240 minute winter	S2	196	6.538	0.108	0.7	2.8907	0.0000	OK	Infiltration		0.0				

Results for 30 year 360 minute summer. 1800 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	SWM 7	168	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0023	
360 minute summer	SWM 8	184	6.603	0.013	0.3	0.0057	0.0000	OK	2	SWM 9	0.3	0.369	0.037	0.0044	
360 minute summer	SWM 9	184	6.520	0.020	0.7	0.0058	0.0000	OK	3	SWM 10	0.7	0.467	0.033	0.0022	
360 minute summer	SWM 10	184	6.501	0.021	0.7	0.0059	0.0000	OK	4	S2	0.7	0.591	0.087	0.0104	
360 minute summer	SWM 11	184	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.423	0.034	0.0007	
360 minute summer	SWM 12	184	6.715	0.015	0.4	0.0049	0.0000	OK	6	SWM 9	0.4	0.413	0.050	0.0114	
360 minute summer	S2	256	6.500	0.070	0.7	2.3042	0.0000	OK	Infiltration		0.0				

Results for 30 year 360 minute winter. 1800 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	SWM 7	144	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
360 minute winter	SWM 8	144	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.386	0.025	0.0048	
360 minute winter	SWM 9	280	6.529	0.029	0.4	0.0083	0.0000	OK	3	SWM 10	0.6	0.421	0.028	0.0056	
360 minute winter	SWM 10	280	6.529	0.049	0.7	0.0140	0.0000	OK	4	S2	0.7	0.510	0.084	0.0175	
360 minute winter	SWM 11	160	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.422	0.023	0.0005	
360 minute winter	SWM 12	160	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.390	0.026	0.0125	
360 minute winter	S2	280	6.529	0.099	0.7	2.7541	0.0000	OK	Infiltration		0.0				

Results for 30 year 480 minute summer. 1920 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	SWM 7	224	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0023	
480 minute summer	SWM 8	248	6.603	0.013	0.3	0.0057	0.0000	OK	2	SWM 9	0.3	0.371	0.037	0.0041	
480 minute summer	SWM 9	248	6.519	0.019	0.6	0.0054	0.0000	OK	3	SWM 10	0.6	0.452	0.029	0.0020	
480 minute summer	SWM 10	320	6.503	0.023	0.6	0.0064	0.0000	OK	4	S2	0.6	0.572	0.077	0.0110	
480 minute summer	SWM 11	232	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.422	0.023	0.0006	
480 minute summer	SWM 12	248	6.713	0.013	0.3	0.0043	0.0000	OK	6	SWM 9	0.3	0.390	0.038	0.0100	
480 minute summer	S2	320	6.502	0.072	0.6	2.3287	0.0000	OK	Infiltration		0.0				

Results for 30 year 480 minute winter. 1920 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	SWM 7	208	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
480 minute winter	SWM 8	208	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.378	0.025	0.0043	
480 minute winter	SWM 9	352	6.527	0.027	0.4	0.0077	0.0000	OK	3	SWM 10	0.4	0.421	0.021	0.0052	
480 minute winter	SWM 10	352	6.527	0.047	0.6	0.0133	0.0000	OK	4	S2	0.8	0.510	0.096	0.0171	
480 minute winter	SWM 11	240	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.422	0.023	0.0005	
480 minute winter	SWM 12	240	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.390	0.026	0.0115	
480 minute winter	S2	352	6.527	0.097	0.8	2.7211	0.0000	OK	Infiltration		0.0				

Results for 30 year 600 minute summer. 2040 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	SWM 7	285	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
600 minute summer	SWM 8	285	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0031	
600 minute summer	SWM 9	315	6.515	0.015	0.4	0.0044	0.0000	OK	3	SWM 10	0.4	0.409	0.019	0.0015	
600 minute summer	SWM 10	315	6.496	0.016	0.4	0.0045	0.0000	OK	4	S2	0.4	0.510	0.051	0.0090	
600 minute summer	SWM 11	315	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0005	
600 minute summer	SWM 12	315	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.351	0.026	0.0074	
600 minute summer	S2	405	6.495	0.065	0.4	2.2168	0.0000	OK	Infiltration		0.0				

Results for 30 year 600 minute winter. 2040 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	SWM 7	270	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
600 minute winter	SWM 8	270	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0045	
600 minute winter	SWM 9	435	6.528	0.028	0.3	0.0079	0.0000	OK	3	SWM 10	0.5	0.390	0.024	0.0054	
600 minute winter	SWM 10	435	6.528	0.048	0.6	0.0136	0.0000	OK	4	S2	0.3	0.470	0.038	0.0173	
600 minute winter	SWM 11	225	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
600 minute winter	SWM 12	210	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0117	
600 minute winter	S2	435	6.528	0.098	0.3	2.7355	0.0000	OK	Infiltration		0.0				

Results for 30 year 720 minute summer. 2160 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	SWM 7	345	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
720 minute summer	SWM 8	345	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0031	
720 minute summer	SWM 9	375	6.515	0.015	0.4	0.0044	0.0000	OK	3	SWM 10	0.4	0.409	0.019	0.0017	
720 minute summer	SWM 10	465	6.505	0.025	0.4	0.0071	0.0000	OK	4	S2	0.4	0.510	0.051	0.0117	
720 minute summer	SWM 11	375	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0005	
720 minute summer	SWM 12	375	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.341	0.026	0.0074	
720 minute summer	S2	465	6.505	0.075	0.4	2.3709	0.0000	OK	Infiltration		0.0				

Results for 30 year 720 minute winter. 2160 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	SWM 7	345	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
720 minute winter	SWM 8	345	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0061	
720 minute winter	SWM 9	510	6.535	0.035	0.3	0.0099	0.0000	OK	3	SWM 10	0.5	0.390	0.022	0.0067	
720 minute winter	SWM 10	510	6.535	0.055	0.6	0.0155	0.0000	OK	4	S2	0.3	0.470	0.038	0.0183	
720 minute winter	SWM 11	270	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
720 minute winter	SWM 12	255	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0154	
720 minute winter	S2	510	6.535	0.105	0.3	2.8382	0.0000	OK	Infiltration		0.0				

Results for 30 year 960 minute summer. 2400 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	SWM 7	480	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0019	
960 minute summer	SWM 8	480	6.601	0.011	0.2	0.0047	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0027	
960 minute summer	SWM 9	510	6.513	0.013	0.3	0.0038	0.0000	OK	3	SWM 10	0.3	0.384	0.015	0.0012	
960 minute summer	SWM 10	480	6.494	0.014	0.3	0.0039	0.0000	OK	4	S2	0.3	0.470	0.039	0.0084	
960 minute summer	SWM 11	420	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
960 minute summer	SWM 12	585	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.349	0.013	0.0055	
960 minute summer	S2	600	6.492	0.062	0.3	2.1709	0.0000	OK	Infiltration		0.0				

Results for 30 year 960 minute winter. 2400 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	SWM 7	15	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
960 minute winter	SWM 8	405	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.279	0.012	0.0019	
960 minute winter	SWM 9	645	6.513	0.013	0.2	0.0037	0.0000	OK	3	SWM 10	0.2	0.347	0.010	0.0028	
960 minute winter	SWM 10	630	6.514	0.034	0.2	0.0096	0.0000	OK	4	S2	0.2	0.418	0.026	0.0139	
960 minute winter	SWM 11	390	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
960 minute winter	SWM 12	360	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0045	
960 minute winter	S2	645	6.513	0.083	0.2	2.5052	0.0000	OK	Infiltration		0.0				

Results for 30 year 1440 minute summer. 2880 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	SWM 7	30	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
1440 minute summer	SWM 8	720	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
1440 minute summer	SWM 9	720	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
1440 minute summer	SWM 10	720	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0040	
1440 minute summer	SWM 11	690	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
1440 minute summer	SWM 12	660	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0045	
1440 minute summer	S2	870	6.467	0.037	0.2	1.7820	0.0000	OK	Infiltration		0.0				

Results for 30 year 1440 minute winter. 2880 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	SWM 7	30	6.670	0.000	0.0	0.0000	0.0000	OK	1	SWM 8	0.0	0.000	0.000	0.0007	
1440 minute winter	SWM 8	750	6.598	0.008	0.1	0.0034	0.0000	OK	2	SWM 9	0.1	0.271	0.012	0.0019	
1440 minute winter	SWM 9	750	6.511	0.011	0.2	0.0031	0.0000	OK	3	SWM 10	0.2	0.341	0.010	0.0009	
1440 minute winter	SWM 10	750	6.491	0.011	0.2	0.0032	0.0000	OK	4	S2	0.2	0.418	0.026	0.0032	
1440 minute winter	SWM 11	720	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
1440 minute winter	SWM 12	630	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0045	
1440 minute winter	S2	900	6.461	0.031	0.2	1.6963	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 15 minute summer. 1455 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	SWM 7	8	6.702	0.032	1.8	0.0129	0.0000	OK	1	SWM 8	1.7	0.515	0.218	0.0164	
15 minute summer	SWM 8	8	6.645	0.055	4.4	0.0236	0.0000	OK	2	SWM 9	4.1	0.713	0.502	0.0282	
15 minute summer	SWM 9	9	6.593	0.093	8.0	0.0264	0.0000	OK	3	SWM 10	7.2	0.723	0.352	0.0183	
15 minute summer	SWM 10	9	6.583	0.103	7.2	0.0292	0.0000	SURCHARGED	4	S2	7.4	1.010	0.949	0.0215	
15 minute summer	SWM 11	8	6.775	0.055	3.6	0.0249	0.0000	OK	5	SWM 12	3.4	0.801	0.391	0.0042	
15 minute summer	SWM 12	8	6.750	0.050	4.3	0.0162	0.0000	OK	6	SWM 9	3.9	0.713	0.501	0.0670	
15 minute summer	S2	20	6.495	0.065	7.4	2.2204	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 15 minute winter. 1455 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	SWM 7	8	6.699	0.029	1.4	0.0115	0.0000	OK	1	SWM 8	1.4	0.503	0.177	0.0136	
15 minute winter	SWM 8	8	6.637	0.047	3.5	0.0202	0.0000	OK	2	SWM 9	3.4	0.658	0.416	0.0254	
15 minute winter	SWM 9	9	6.581	0.081	6.8	0.0229	0.0000	OK	3	SWM 10	6.6	0.701	0.322	0.0149	
15 minute winter	SWM 10	9	6.564	0.084	6.6	0.0238	0.0000	OK	4	S2	6.7	1.027	0.857	0.0195	
15 minute winter	SWM 11	8	6.770	0.050	2.9	0.0223	0.0000	OK	5	SWM 12	2.8	0.760	0.329	0.0037	
15 minute winter	SWM 12	8	6.746	0.046	3.5	0.0149	0.0000	OK	6	SWM 9	3.4	0.669	0.436	0.0612	
15 minute winter	S2	20	6.511	0.081	6.7	2.4770	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 30 minute summer. 1470 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	SWM 7	16	6.697	0.027	1.2	0.0108	0.0000	OK	1	SWM 8	1.2	0.488	0.157	0.0124	
30 minute summer	SWM 8	16	6.634	0.044	3.0	0.0187	0.0000	OK	2	SWM 9	3.0	0.641	0.372	0.0236	
30 minute summer	SWM 9	16	6.574	0.074	6.0	0.0208	0.0000	OK	3	SWM 10	5.9	0.692	0.289	0.0130	
30 minute summer	SWM 10	16	6.555	0.075	5.9	0.0212	0.0000	OK	4	S2	5.8	1.002	0.745	0.0190	
30 minute summer	SWM 11	16	6.765	0.045	2.4	0.0202	0.0000	OK	5	SWM 12	2.4	0.727	0.279	0.0033	
30 minute summer	SWM 12	16	6.743	0.043	3.0	0.0139	0.0000	OK	6	SWM 9	3.0	0.644	0.382	0.0563	
30 minute summer	S2	35	6.539	0.109	5.8	2.8964	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 30 minute winter. 1470 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	SWM 7	16	6.694	0.024	1.0	0.0099	0.0000	OK	1	SWM 8	1.0	0.476	0.130	0.0106	
30 minute winter	SWM 8	16	6.628	0.038	2.4	0.0164	0.0000	OK	2	SWM 9	2.4	0.604	0.296	0.0200	
30 minute winter	SWM 9	16	6.563	0.063	4.8	0.0180	0.0000	OK	3	SWM 10	4.8	0.670	0.233	0.0121	
30 minute winter	SWM 10	34	6.560	0.080	4.8	0.0227	0.0000	OK	4	S2	4.8	0.963	0.607	0.0218	
30 minute winter	SWM 11	16	6.759	0.039	1.9	0.0176	0.0000	OK	5	SWM 12	1.9	0.685	0.221	0.0028	
30 minute winter	SWM 12	16	6.738	0.038	2.4	0.0123	0.0000	OK	6	SWM 9	2.4	0.606	0.306	0.0478	
30 minute winter	S2	35	6.560	0.130	4.8	3.2299	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 60 minute summer. 1500 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	SWM 7	31	6.692	0.022	0.8	0.0088	0.0000	OK	1	SWM 8	0.8	0.441	0.104	0.0092	
60 minute summer	SWM 8	31	6.625	0.035	2.0	0.0148	0.0000	OK	2	SWM 9	2.0	0.579	0.247	0.0176	
60 minute summer	SWM 9	65	6.580	0.080	4.1	0.0225	0.0000	OK	3	SWM 10	4.1	0.658	0.198	0.0164	
60 minute summer	SWM 10	65	6.580	0.100	4.1	0.0282	0.0000	OK	4	S2	4.0	0.929	0.514	0.0235	
60 minute summer	SWM 11	31	6.757	0.037	1.7	0.0164	0.0000	OK	5	SWM 12	1.7	0.672	0.198	0.0025	
60 minute summer	SWM 12	31	6.735	0.035	2.1	0.0114	0.0000	OK	6	SWM 9	2.1	0.593	0.268	0.0425	
60 minute summer	S2	65	6.580	0.150	4.0	3.5324	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 60 minute winter. 1500 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	SWM 7	32	6.689	0.019	0.6	0.0077	0.0000	OK	1	SWM 8	0.6	0.412	0.078	0.0074	
60 minute winter	SWM 8	30	6.619	0.029	1.5	0.0126	0.0000	OK	2	SWM 9	1.5	0.547	0.184	0.0221	
60 minute winter	SWM 9	61	6.608	0.108	3.0	0.0307	0.0000	OK	3	SWM 10	3.0	0.629	0.147	0.0223	
60 minute winter	SWM 10	62	6.609	0.129	3.0	0.0364	0.0000	FLOOD RISK	4	S2	3.0	0.868	0.388	0.0235	
60 minute winter	SWM 11	32	6.750	0.030	1.2	0.0134	0.0000	OK	5	SWM 12	1.2	0.615	0.140	0.0020	
60 minute winter	SWM 12	33	6.730	0.030	1.5	0.0096	0.0000	OK	6	SWM 9	1.5	0.549	0.192	0.0507	
60 minute winter	S2	63	6.608	0.178	3.0	3.9788	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 120 minute summer. 1560 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	SWM 7	62	6.687	0.017	0.5	0.0070	0.0000	OK	1	SWM 8	0.5	0.387	0.065	0.0065	
120 minute summer	SWM 8	124	6.623	0.033	1.3	0.0140	0.0000	OK	2	SWM 9	1.3	0.532	0.160	0.0251	
120 minute summer	SWM 9	122	6.623	0.123	2.6	0.0347	0.0000	OK	3	SWM 10	2.6	0.625	0.127	0.0245	
120 minute summer	SWM 10	128	6.622	0.142	2.6	0.0403	0.0000	FLOOD RISK	4	S2	2.6	0.795	0.336	0.0235	
120 minute summer	SWM 11	62	6.747	0.027	1.0	0.0121	0.0000	OK	5	SWM 12	1.0	0.581	0.117	0.0017	
120 minute summer	SWM 12	62	6.728	0.028	1.3	0.0089	0.0000	OK	6	SWM 9	1.3	0.527	0.166	0.0496	
120 minute summer	S2	124	6.623	0.193	2.6	4.1974	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 120 minute winter. 1560 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	SWM 7	62	6.686	0.016	0.4	0.0063	0.0000	OK	1	SWM 8	0.4	0.384	0.052	0.0132	
120 minute winter	SWM 8	120	6.653	0.063	1.0	0.0271	0.0000	OK	2	SWM 9	1.0	0.512	0.123	0.0326	
120 minute winter	SWM 9	116	6.654	0.154	2.0	0.0435	0.0000	FLOOD RISK	3	SWM 10	2.0	0.631	0.097	0.0264	
120 minute winter	SWM 10	126	6.653	0.173	2.0	0.0488	0.0000	FLOOD RISK	4	S2	2.0	0.747	0.252	0.0235	
120 minute winter	SWM 11	62	6.744	0.024	0.8	0.0106	0.0000	OK	5	SWM 12	0.8	0.557	0.093	0.0014	
120 minute winter	SWM 12	62	6.724	0.024	1.0	0.0078	0.0000	OK	6	SWM 9	1.0	0.502	0.128	0.0525	
120 minute winter	S2	122	6.653	0.223	2.0	4.6635	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 180 minute summer. 1620 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	SWM 7	92	6.685	0.015	0.4	0.0062	0.0000	OK	1	SWM 8	0.4	0.366	0.051	0.0115	
180 minute summer	SWM 8	184	6.647	0.057	1.0	0.0244	0.0000	OK	2	SWM 9	1.0	0.506	0.120	0.0310	
180 minute summer	SWM 9	188	6.647	0.147	2.0	0.0415	0.0000	OK	3	SWM 10	1.9	0.629	0.094	0.0263	
180 minute summer	SWM 10	188	6.646	0.166	1.9	0.0471	0.0000	FLOOD RISK	4	S2	1.9	0.699	0.246	0.0235	
180 minute summer	SWM 11	92	6.744	0.024	0.8	0.0106	0.0000	OK	5	SWM 12	0.8	0.557	0.092	0.0014	
180 minute summer	SWM 12	92	6.724	0.024	1.0	0.0078	0.0000	OK	6	SWM 9	1.0	0.504	0.126	0.0509	
180 minute summer	S2	184	6.647	0.217	1.9	4.5688	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 180 minute winter. 1620 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	SWM 7	92	6.684	0.014	0.3	0.0055	0.0000	OK	1	SWM 8	0.3	0.350	0.039	0.0174	
180 minute winter	SWM 8	180	6.672	0.082	0.7	0.0354	0.0000	OK	2	SWM 9	0.7	0.479	0.086	0.0368	
180 minute winter	SWM 9	176	6.672	0.172	1.4	0.0487	0.0000	FLOOD RISK	3	SWM 10	1.4	0.570	0.066	0.0264	
180 minute winter	SWM 10	180	6.672	0.192	1.4	0.0545	0.0000	FLOOD RISK	4	S2	1.5	0.657	0.195	0.0235	
180 minute winter	SWM 11	92	6.740	0.020	0.6	0.0090	0.0000	OK	5	SWM 12	0.6	0.534	0.069	0.0011	
180 minute winter	SWM 12	92	6.720	0.020	0.7	0.0065	0.0000	OK	6	SWM 9	0.7	0.434	0.087	0.0523	
180 minute winter	S2	180	6.672	0.242	1.5	4.9651	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 240 minute summer. 1680 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	SWM 7	124	6.684	0.014	0.3	0.0055	0.0000	OK	1	SWM 8	0.3	0.348	0.039	0.0115	
240 minute summer	SWM 8	244	6.647	0.057	0.8	0.0245	0.0000	OK	2	SWM 9	0.8	0.484	0.098	0.0311	
240 minute summer	SWM 9	248	6.647	0.147	1.6	0.0416	0.0000	OK	3	SWM 10	1.6	0.596	0.078	0.0263	
240 minute summer	SWM 10	240	6.647	0.167	1.6	0.0473	0.0000	FLOOD RISK	4	S2	1.6	0.644	0.202	0.0235	
240 minute summer	SWM 11	124	6.740	0.020	0.6	0.0091	0.0000	OK	5	SWM 12	0.6	0.508	0.070	0.0012	
240 minute summer	SWM 12	124	6.722	0.022	0.8	0.0070	0.0000	OK	6	SWM 9	0.8	0.471	0.102	0.0508	
240 minute summer	S2	244	6.647	0.217	1.6	4.5727	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 240 minute winter. 1680 minute analysis at 4 minute timestep. Mass balance: 99.28%															
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	SWM 7	236	6.691	0.021	0.2	0.0084	0.0000	OK	1	SWM 8	0.2	0.321	0.026	0.0225	
240 minute winter	SWM 8	236	6.691	0.101	0.5	0.0433	0.0000	SURCHARGED	2	SWM 9	0.5	0.440	0.061	0.0391	
240 minute winter	SWM 9	240	6.691	0.191	1.1	0.0540	0.0000	FLOOD RISK	3	SWM 10	1.7	0.534	0.084	0.0264	
240 minute winter	SWM 10	236	6.691	0.211	1.7	0.0597	0.0000	FLOOD RISK	4	S2	1.3	0.609	0.160	0.0235	
240 minute winter	SWM 11	124	6.738	0.018	0.5	0.0082	0.0000	OK	5	SWM 12	0.5	0.503	0.058	0.0010	
240 minute winter	SWM 12	124	6.719	0.019	0.6	0.0061	0.0000	OK	6	SWM 9	0.6	0.420	0.077	0.0517	
240 minute winter	S2	236	6.691	0.261	1.3	5.2531	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 360 minute summer. 10080 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	SWM 7	176	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.329	0.026	0.0104	
360 minute summer	SWM 8	304	6.643	0.053	0.5	0.0225	0.0000	OK	2	SWM 9	0.5	0.425	0.061	0.0300	
360 minute summer	SWM 9	304	6.643	0.143	1.1	0.0405	0.0000	OK	3	SWM 10	1.4	0.540	0.067	0.0262	
360 minute summer	SWM 10	304	6.643	0.163	1.4	0.0461	0.0000	FLOOD RISK	4	S2	1.0	0.601	0.127	0.0235	
360 minute summer	SWM 11	184	6.738	0.018	0.5	0.0081	0.0000	OK	5	SWM 12	0.5	0.503	0.058	0.0010	
360 minute summer	SWM 12	184	6.719	0.019	0.6	0.0060	0.0000	OK	6	SWM 9	0.6	0.454	0.076	0.0498	
360 minute summer	S2	304	6.643	0.213	1.0	4.5088	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 360 minute winter. 10080 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	SWM 7	344	6.691	0.021	0.2	0.0083	0.0000	OK	1	SWM 8	0.2	0.330	0.026	0.0224	
360 minute winter	SWM 8	344	6.690	0.100	0.4	0.0430	0.0000	SURCHARGED	2	SWM 9	0.4	0.396	0.049	0.0391	
360 minute winter	SWM 9	336	6.690	0.190	1.0	0.0539	0.0000	FLOOD RISK	3	SWM 10	0.8	0.503	0.038	0.0264	
360 minute winter	SWM 10	344	6.690	0.210	0.8	0.0595	0.0000	FLOOD RISK	4	S2	1.8	0.562	0.229	0.0235	
360 minute winter	SWM 11	160	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.424	0.035	0.0007	
360 minute winter	SWM 12	160	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.418	0.051	0.0515	
360 minute winter	S2	344	6.690	0.260	1.8	5.2493	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 480 minute summer. 1920 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	SWM 7	240	6.681	0.011	0.2	0.0045	0.0000	OK	1	SWM 8	0.2	0.329	0.026	0.0085	
480 minute summer	SWM 8	368	6.635	0.045	0.5	0.0192	0.0000	OK	2	SWM 9	0.5	0.425	0.061	0.0280	
480 minute summer	SWM 9	368	6.634	0.134	1.1	0.0380	0.0000	OK	3	SWM 10	1.0	0.532	0.049	0.0257	
480 minute summer	SWM 10	368	6.634	0.154	1.0	0.0436	0.0000	FLOOD RISK	4	S2	1.2	0.591	0.155	0.0235	
480 minute summer	SWM 11	248	6.736	0.016	0.4	0.0073	0.0000	OK	5	SWM 12	0.4	0.468	0.047	0.0009	
480 minute summer	SWM 12	248	6.717	0.017	0.5	0.0056	0.0000	OK	6	SWM 9	0.5	0.417	0.064	0.0496	
480 minute summer	S2	368	6.635	0.205	1.2	4.3835	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 480 minute winter. 1920 minute analysis at 8 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)
480 minute winter	SWM 7	392	6.692	0.022	0.1	0.0089	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0228	
480 minute winter	SWM 8	392	6.692	0.102	0.3	0.0436	0.0000	SURCHARGED	2	SWM 9	0.3	0.371	0.039	0.0391	
480 minute winter	SWM 9	392	6.692	0.192	1.1	0.0542	0.0000	FLOOD RISK	3	SWM 10	0.7	0.469	0.033	0.0264	
480 minute winter	SWM 10	392	6.691	0.211	0.7	0.0598	0.0000	FLOOD RISK	4	S2	1.0	0.562	0.132	0.0235	
480 minute winter	SWM 11	240	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.424	0.035	0.0007	
480 minute winter	SWM 12	240	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.411	0.051	0.0507	
480 minute winter	S2	392	6.692	0.262	1.0	5.2692	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 600 minute summer. 2040 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	SWM 7	255	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0053	
600 minute summer	SWM 8	435	6.621	0.031	0.3	0.0135	0.0000	OK	2	SWM 9	0.3	0.371	0.037	0.0248	
600 minute summer	SWM 9	435	6.621	0.121	0.9	0.0344	0.0000	OK	3	SWM 10	0.8	0.487	0.037	0.0244	
600 minute summer	SWM 10	435	6.621	0.141	1.2	0.0400	0.0000	FLOOD RISK	4	S2	0.9	0.566	0.113	0.0235	
600 minute summer	SWM 11	315	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.424	0.035	0.0007	
600 minute summer	SWM 12	315	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.419	0.051	0.0487	
600 minute summer	S2	435	6.621	0.191	0.9	4.1792	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 600 minute winter. 2040 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	SWM 7	480	6.685	0.015	0.1	0.0061	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0210	
600 minute winter	SWM 8	480	6.685	0.095	0.3	0.0407	0.0000	OK	2	SWM 9	0.3	0.371	0.037	0.0387	
600 minute winter	SWM 9	480	6.685	0.185	0.9	0.0524	0.0000	FLOOD RISK	3	SWM 10	0.6	0.467	0.029	0.0264	
600 minute winter	SWM 10	480	6.685	0.205	0.6	0.0581	0.0000	FLOOD RISK	4	S2	0.9	0.510	0.114	0.0235	
600 minute winter	SWM 11	255	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0006	
600 minute winter	SWM 12	300	6.713	0.013	0.3	0.0043	0.0000	OK	6	SWM 9	0.3	0.365	0.038	0.0498	
600 minute winter	S2	480	6.685	0.255	0.9	5.1667	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 720 minute summer. 2160 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	SWM 7	315	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0069	
720 minute summer	SWM 8	510	6.628	0.038	0.3	0.0164	0.0000	OK	2	SWM 9	0.3	0.371	0.037	0.0265	
720 minute summer	SWM 9	510	6.628	0.128	0.7	0.0362	0.0000	OK	3	SWM 10	1.0	0.487	0.048	0.0252	
720 minute summer	SWM 10	510	6.628	0.148	1.0	0.0419	0.0000	FLOOD RISK	4	S2	0.7	0.566	0.088	0.0235	
720 minute summer	SWM 11	375	6.734	0.014	0.3	0.0062	0.0000	OK	5	SWM 12	0.3	0.424	0.035	0.0007	
720 minute summer	SWM 12	375	6.715	0.015	0.4	0.0050	0.0000	OK	6	SWM 9	0.4	0.416	0.051	0.0487	
720 minute summer	S2	510	6.628	0.198	0.7	4.2830	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 720 minute winter. 2160 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	SWM 7	285	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0135	
720 minute winter	SWM 8	555	6.655	0.065	0.2	0.0280	0.0000	OK	2	SWM 9	0.2	0.371	0.026	0.0331	
720 minute winter	SWM 9	555	6.656	0.156	0.7	0.0440	0.0000	FLOOD RISK	3	SWM 10	0.5	0.421	0.025	0.0264	
720 minute winter	SWM 10	555	6.656	0.176	0.5	0.0497	0.0000	FLOOD RISK	4	S2	0.9	0.470	0.110	0.0235	
720 minute winter	SWM 11	330	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0005	
720 minute winter	SWM 12	330	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.348	0.026	0.0487	
720 minute winter	S2	555	6.655	0.225	0.9	4.7060	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 960 minute summer. 2400 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	SWM 7	420	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0061	
960 minute summer	SWM 8	645	6.625	0.035	0.3	0.0150	0.0000	OK	2	SWM 9	0.3	0.379	0.037	0.0257	
960 minute summer	SWM 9	645	6.625	0.125	0.7	0.0354	0.0000	OK	3	SWM 10	0.6	0.467	0.031	0.0248	
960 minute summer	SWM 10	645	6.625	0.145	0.8	0.0411	0.0000	FLOOD RISK	4	S2	0.7	0.505	0.091	0.0235	
960 minute summer	SWM 11	465	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0006	
960 minute summer	SWM 12	495	6.713	0.013	0.3	0.0043	0.0000	OK	6	SWM 9	0.3	0.375	0.038	0.0487	
960 minute summer	S2	645	6.625	0.195	0.7	4.2358	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 960 minute winter. 2400 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	SWM 7	390	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0163	
960 minute winter	SWM 8	705	6.668	0.078	0.2	0.0334	0.0000	OK	2	SWM 9	0.2	0.371	0.025	0.0359	
960 minute winter	SWM 9	705	6.668	0.168	0.5	0.0475	0.0000	FLOOD RISK	3	SWM 10	1.0	0.390	0.050	0.0264	
960 minute winter	SWM 10	705	6.668	0.188	1.0	0.0532	0.0000	FLOOD RISK	4	S2	0.6	0.470	0.076	0.0235	
960 minute winter	SWM 11	480	6.731	0.011	0.2	0.0051	0.0000	OK	5	SWM 12	0.2	0.421	0.023	0.0005	
960 minute winter	SWM 12	480	6.711	0.011	0.2	0.0036	0.0000	OK	6	SWM 9	0.2	0.348	0.026	0.0487	
960 minute winter	S2	705	6.668	0.238	0.6	4.9003	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 1440 minute summer. 2880 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	SWM 7	690	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0026	
1440 minute summer	SWM 8	930	6.609	0.019	0.2	0.0082	0.0000	OK	2	SWM 9	0.2	0.386	0.025	0.0222	
1440 minute summer	SWM 9	930	6.609	0.109	0.3	0.0309	0.0000	OK	3	SWM 10	0.8	0.390	0.037	0.0224	
1440 minute summer	SWM 10	930	6.609	0.129	0.8	0.0366	0.0000	FLOOD RISK	4	S2	0.3	0.466	0.044	0.0235	
1440 minute summer	SWM 11	600	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
1440 minute summer	SWM 12	600	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.345	0.013	0.0487	
1440 minute summer	S2	930	6.609	0.179	0.3	3.9917	0.0000	OK	Infiltration		0.0				

Results for 100 year +30% 1440 minute winter. 2880 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	SWM 7	690	6.678	0.008	0.1	0.0033	0.0000	OK	1	SWM 8	0.1	0.267	0.013	0.0128	
1440 minute winter	SWM 8	990	6.652	0.062	0.2	0.0267	0.0000	OK	2	SWM 9	0.2	0.386	0.025	0.0324	
1440 minute winter	SWM 9	990	6.652	0.152	0.3	0.0430	0.0000	FLOOD RISK	3	SWM 10	0.5	0.390	0.027	0.0264	
1440 minute winter	SWM 10	990	6.652	0.172	0.6	0.0486	0.0000	FLOOD RISK	4	S2	0.7	0.432	0.089	0.0235	
1440 minute winter	SWM 11	570	6.728	0.008	0.1	0.0036	0.0000	OK	5	SWM 12	0.1	0.345	0.012	0.0003	
1440 minute winter	SWM 12	540	6.708	0.008	0.1	0.0026	0.0000	OK	6	SWM 9	0.1	0.348	0.013	0.0487	
1440 minute winter	S2	990	6.652	0.222	0.7	4.6568	0.0000	OK	Infiltration		0.0				