

HYDRAULIC CALCULATIONS

BREACHWOOD GREEN, HERTFORDSHIRE.

Project Ref: 1050

Revision C

Calcs prepared by MS Aug 2024



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Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	2	Maximum Rainfall (mm/hr)	50.0
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00
FSR Region	England and Wales	Connection Type	Level Soffits
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	1.000	Include Intermediate Ground	✓
Time of Entry (mins)	3.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
RE1	0.021	3.00	150.550	1200	514850.857	222473.582	0.600
RE3	0.020	3.00	150.350	1200	514842.526	222456.153	0.600
RE4	0.020	3.00	150.000	1200	514836.688	222445.274	0.600
RE5	0.016	3.00	150.000	1200	514831.265	222435.323	0.600
RE6	0.024	3.00	150.350	1200	514881.934	222455.468	0.600
RE9	0.006	3.00	149.600	1200	514931.164	222424.090	0.600
S1	0.057	3.00	149.400	1200	514933.360	222411.493	2.135
S3	0.134	3.00	149.375		514924.542	222410.346	2.058
S4	0.000		150.170		514859.005	222443.513	2.783
S5	0.000		150.600	1200	514868.668	222463.096	1.425
PIC1	0.005	3.00	150.550	1200	514862.637	222467.253	0.820
PIC3	0.005	3.00	150.335	1200	514856.661	222449.083	0.765
PIC4	0.005	3.00	150.335	1200	514845.129	222441.049	1.090
PIC5	0.005	3.00	150.000	1200	514844.584	222428.308	0.900
F1	0.000		148.970	1200	514938.548	222416.439	1.724
S1A			149.020	1200	514937.740	222413.693	1.769
Swale Inlet	0.070	10.00	149.910		514855.445	222420.983	0.900
Swale Outlet	0.070	10.00	149.300		514923.743	222383.857	0.940
S1B	0.000		149.175	1200	514934.870	222412.808	1.918

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	RE5	PIC5	15.053	0.600	149.400	149.150	0.250	60.2	100	3.25	50.0
1.001	PIC5	Swale Inlet	13.100	0.600	149.100	149.010	0.090	145.6	100	3.60	50.0
1.002	Swale Inlet	Swale Outlet	77.736	0.030	149.010	148.360	0.650	119.6	600	11.09	47.6
1.003	Swale Outlet	S1	29.261	0.030	148.360	148.300	0.060	487.7	300	12.91	43.7
2.000	RE1	PIC1	13.373	0.600	149.950	149.730	0.220	60.8	100	3.23	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.994	7.8	2.9	0.500	0.750	0.016	0.0	42	0.916
1.001	0.635	5.0	3.8	0.800	0.800	0.021	0.0	65	0.699
1.002	1.189	535.0	15.6	0.300	0.340	0.091	0.0	118	0.495
1.003	0.268	19.0	25.4	0.640	0.800	0.161	0.0	300	0.272
2.000	0.989	7.8	3.8	0.500	0.720	0.021	0.0	50	0.986

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
2.001	PIC1	S5	7.325	0.600	149.730	149.300	0.430	17.0	100	3.29	50.0
3.000	RE6	S5	15.303	0.600	149.750	149.300	0.450	34.0	100	3.19	50.0
2.002	S5	S4	21.837	0.600	149.175	147.387	1.788	12.2	225	3.39	50.0
4.000	RE3	PIC3	15.805	0.600	149.750	149.570	0.180	87.8	100	3.32	50.0
4.001	PIC3	S4	6.043	0.600	149.570	148.870	0.700	8.6	100	3.36	50.0
5.000	RE4	PIC4	9.439	0.600	149.400	149.245	0.155	60.9	100	3.16	50.0
5.001	PIC4	S4	14.093	0.600	149.245	148.870	0.375	37.6	100	3.35	50.0
2.003	S4	S3	73.452	0.600	147.387	147.317	0.070	1049.3	800	4.11	50.0
6.000	RE9	S3	15.256	0.600	149.000	148.075	0.925	16.5	100	3.13	50.0
2.004	S3	S1	8.892	0.600	147.365	147.265	0.100	88.9	225	4.21	50.0
1.004	S1	S1B	2.002	0.030	147.265	147.257	0.008	250.3	225	13.01	43.5
1.005	S1B	S1A	3.003	0.030	147.257	147.251	0.006	500.6	225	13.24	43.1
1.006	S1A	F1	2.862	0.030	147.251	147.246	0.005	572.5	150	13.55	42.5

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
2.001	1.880	14.8	4.7	0.720	1.200	0.026	0.0	39	1.669
3.000	1.327	10.4	4.3	0.500	1.200	0.024	0.0	45	1.266
2.002	3.764	149.7	9.0	1.200	2.558	0.050	0.0	37	2.100
4.000	0.821	6.4	3.6	0.500	0.665	0.020	0.0	54	0.844
4.001	2.646	20.8	4.5	0.665	1.200	0.025	0.0	32	2.117
5.000	0.988	7.8	3.6	0.500	0.990	0.020	0.0	48	0.972
5.001	1.262	9.9	4.5	0.990	1.200	0.025	0.0	47	1.231
2.003	1.702	5447.0	18.1	1.983	1.258	0.100	0.0	21	0.205
6.000	1.911	15.0	1.1	0.500	1.200	0.006	0.0	18	1.112
2.004	1.387	55.1	43.4	1.785	1.910	0.240	0.0	151	1.531
1.004	0.309	12.3	72.0	1.910	1.693	0.458	0.0	225	0.315
1.005	0.219	8.7	71.3	1.693	1.544	0.458	0.0	225	0.223
1.006	0.156	2.8	70.3	1.619	1.574	0.458	0.0	150	0.159

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	15.053	60.2	100	Circular	150.000	149.400	0.500	150.000	149.150	0.750
1.001	13.100	145.6	100	Circular	150.000	149.100	0.800	149.910	149.010	0.800
1.002	77.736	119.6	600	CDL Swale	149.910	149.010	0.300	149.300	148.360	0.340
1.003	29.261	487.7	300	Circular	149.300	148.360	0.640	149.400	148.300	0.800
2.000	13.373	60.8	100	Circular	150.550	149.950	0.500	150.550	149.730	0.720
2.001	7.325	17.0	100	Circular	150.550	149.730	0.720	150.600	149.300	1.200
3.000	15.303	34.0	100	Circular	150.350	149.750	0.500	150.600	149.300	1.200
2.002	21.837	12.2	225	Circular	150.600	149.175	1.200	150.170	147.387	2.558
4.000	15.805	87.8	100	Circular	150.350	149.750	0.500	150.335	149.570	0.665
4.001	6.043	8.6	100	Circular	150.335	149.570	0.665	150.170	148.870	1.200
5.000	9.439	60.9	100	Circular	150.000	149.400	0.500	150.335	149.245	0.990
5.001	14.093	37.6	100	Circular	150.335	149.245	0.990	150.170	148.870	1.200
2.003	73.452	1049.3	800	polystorm	150.170	147.387	1.983	149.375	147.317	1.258
6.000	15.256	16.5	100	Circular	149.600	149.000	0.500	149.375	148.075	1.200
2.004	8.892	88.9	225	Circular	149.375	147.365	1.785	149.400	147.265	1.910
1.004	2.002	250.3	225	Circular	149.400	147.265	1.910	149.175	147.257	1.693

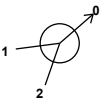
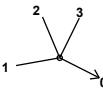
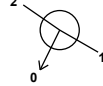
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	RE5	1200	Manhole	Adoptable	PIC5	1200	Manhole	Adoptable
1.001	PIC5	1200	Manhole	Adoptable	Swale Inlet		Junction	
1.002	Swale Inlet		Junction		Swale Outlet		Junction	
1.003	Swale Outlet		Junction		S1	1200	Manhole	Adoptable
2.000	RE1	1200	Manhole	Adoptable	PIC1	1200	Manhole	Adoptable
2.001	PIC1	1200	Manhole	Adoptable	S5	1200	Manhole	Adoptable
3.000	RE6	1200	Manhole	Adoptable	S5	1200	Manhole	Adoptable
2.002	S5	1200	Manhole	Adoptable	S4		Junction	
4.000	RE3	1200	Manhole	Adoptable	PIC3	1200	Manhole	Adoptable
4.001	PIC3	1200	Manhole	Adoptable	S4		Junction	
5.000	RE4	1200	Manhole	Adoptable	PIC4	1200	Manhole	Adoptable
5.001	PIC4	1200	Manhole	Adoptable	S4		Junction	
2.003	S4		Junction		S3		Junction	
6.000	RE9	1200	Manhole	Adoptable	S3		Junction	
2.004	S3		Junction		S1	1200	Manhole	Adoptable
1.004	S1	1200	Manhole	Adoptable	S1B	1200	Manhole	Adoptable

Pipeline Schedule

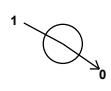
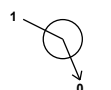
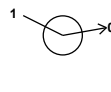
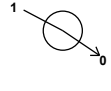
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.005	3.003	500.6	225	Circular	149.175	147.257	1.693	149.020	147.251	1.544
1.006	2.862	572.5	150	Circular	149.020	147.251	1.619	148.970	147.246	1.574

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.005	S1B	1200	Manhole	Adoptable	S1A	1200	Manhole	Adoptable
1.006	S1A	1200	Manhole	Adoptable	F1	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
RE1	514850.857	222473.582	150.550	0.600	1200	 0	2.000	149.950	100
RE3	514842.526	222456.153	150.350	0.600	1200	 0	4.000	149.750	100
RE4	514836.688	222445.274	150.000	0.600	1200	 0	5.000	149.400	100
RE5	514831.265	222435.323	150.000	0.600	1200	 0	1.000	149.400	100
RE6	514881.934	222455.468	150.350	0.600	1200	 0	3.000	149.750	100
RE9	514931.164	222424.090	149.600	0.600	1200	 0	6.000	149.000	100
S1	514933.360	222411.493	149.400	2.135	1200	 1 2 0	2.004 1.003 1.004	147.265 148.300 147.265	225 300 225
S3	514924.542	222410.346	149.375	2.058		 1 2 0	6.000 2.003 2.004	148.075 147.317 147.365	100 800 225
S4	514859.005	222443.513	150.170	2.783		 2 3 1 0	5.001 4.001 2.002 2.003	148.870 148.870 147.387 147.387	100 100 225 800
S5	514868.668	222463.096	150.600	1.425	1200	 2 1 0	3.000 2.001 2.002	149.300 149.300 149.175	100 100 225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
PIC1	514862.637	222467.253	150.550	0.820	1200		1	2.000	149.730	100
							0	2.001	149.730	100
PIC3	514856.661	222449.083	150.335	0.765	1200		1	4.000	149.570	100
							0	4.001	149.570	100
PIC4	514845.129	222441.049	150.335	1.090	1200		1	5.000	149.245	100
							0	5.001	149.245	100
PIC5	514844.584	222428.308	150.000	0.900	1200		1	1.000	149.150	100
							0	1.001	149.100	100
F1	514938.548	222416.439	148.970	1.724	1200		1	1.006	147.246	150
S1A	514937.740	222413.693	149.020	1.769	1200		1	1.005	147.251	225
							0	1.006	147.251	150
Swale Inlet	514855.445	222420.983	149.910	0.900			1	1.001	149.010	100
							0	1.002	149.010	600
Swale Outlet	514923.743	222383.857	149.300	0.940			1	1.002	148.360	600
							0	1.003	148.360	300
S1B	514934.870	222412.808	149.175	1.918	1200		1	1.004	147.257	225
							0	1.005	147.257	225

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	Additional Storage (m³/ha)	20.0
Summer CV	0.750	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	0.840	Drain Down Time (mins)	2000	Check Discharge Volume	x

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	40	0	0
100	40	0	0

Node S1 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	147.265	Product Number	CTL-SHE-0037-9000-2200-9000
Design Depth (m)	2.200	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	0.9	Min Node Diameter (mm)	1200

Node S1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	148.300
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	0

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	1.0	0.0	0.900	80.0	0.0

Other (defaults)

Entry Loss (manhole)	0.250	Entry Loss (junction)	0.000	Apply Recommended Losses	x
Exit Loss (manhole)	0.250	Exit Loss (junction)	0.000	Flood Risk (m)	0.300

Approval Settings

Node Size	✓	Minimum Full Bore Velocity (m/s)	
Node Losses	✓	Maximum Full Bore Velocity (m/s)	3.000
Link Size	✓	Proportional Velocity	✓
Minimum Diameter (mm)	150	Return Period (years)	
Link Length	✓	Minimum Proportional Velocity (m/s)	0.750
Maximum Length (m)	100.000	Maximum Proportional Velocity (m/s)	3.000
Coordinates	✓	Surcharged Depth	✓
Accuracy (m)	1.000	Return Period (years)	
Crossings	✓	Maximum Surcharged Depth (m)	0.100
Cover Depth	✓	Flooding	✓
Minimum Cover Depth (m)		Return Period (years)	30
Maximum Cover Depth (m)	3.000	Time to Half Empty	x
Backdrops	✓	Discharge Rates	✓
Minimum Backdrop Height (m)		Discharge Volume	✓
Maximum Backdrop Height (m)	1.500	100 year 360 minute (m³)	
Full Bore Velocity	✓		

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 15 minute summer	103.625	29.322	2 year 240 minute winter	14.132	5.621
2 year 15 minute winter	72.719	29.322	2 year 360 minute summer	16.442	4.231
2 year 30 minute summer	66.439	18.800	2 year 360 minute winter	10.687	4.231
2 year 30 minute winter	46.624	18.800	2 year 480 minute summer	12.900	3.409
2 year 60 minute summer	43.894	11.600	2 year 480 minute winter	8.571	3.409
2 year 60 minute winter	29.162	11.600	2 year 600 minute summer	10.481	2.867
2 year 120 minute summer	32.295	8.535	2 year 600 minute winter	7.161	2.867
2 year 120 minute winter	21.456	8.535	2 year 720 minute summer	9.256	2.481
2 year 180 minute summer	26.268	6.760	2 year 720 minute winter	6.221	2.481
2 year 180 minute winter	17.075	6.760	2 year 960 minute summer	7.464	1.965
2 year 240 minute summer	21.272	5.621	2 year 960 minute winter	4.944	1.965

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 1440 minute summer	5.279	1.415	30 year +40% CC 1440 minute winter	9.429	3.760
2 year 1440 minute winter	3.548	1.415	100 year +40% CC 15 minute summer	492.130	139.256
30 year +40% CC 15 minute summer	391.198	110.696	100 year +40% CC 15 minute winter	345.354	139.256
30 year +40% CC 15 minute winter	274.525	110.696	100 year +40% CC 30 minute summer	323.300	91.483
30 year +40% CC 30 minute summer	253.498	71.731	100 year +40% CC 30 minute winter	226.877	91.483
30 year +40% CC 30 minute winter	177.893	71.731	100 year +40% CC 60 minute summer	216.335	57.171
30 year +40% CC 60 minute summer	168.982	44.657	100 year +40% CC 60 minute winter	143.728	57.171
30 year +40% CC 60 minute winter	112.268	44.657	100 year +40% CC 120 minute summer	133.420	35.259
30 year +40% CC 120 minute summer	106.669	28.189	100 year +40% CC 120 minute winter	88.641	35.259
30 year +40% CC 120 minute winter	70.868	28.189	100 year +40% CC 180 minute summer	101.503	26.120
30 year +40% CC 180 minute summer	81.714	21.028	100 year +40% CC 180 minute winter	65.980	26.120
30 year +40% CC 180 minute winter	53.117	21.028	100 year +40% CC 240 minute summer	79.178	20.924
30 year +40% CC 240 minute summer	63.955	16.901	100 year +40% CC 240 minute winter	52.604	20.924
30 year +40% CC 240 minute winter	42.490	16.901	100 year +40% CC 360 minute summer	58.651	15.093
30 year +40% CC 360 minute summer	47.549	12.236	100 year +40% CC 360 minute winter	38.125	15.093
30 year +40% CC 360 minute winter	30.908	12.236	100 year +40% CC 480 minute summer	44.967	11.883
30 year +40% CC 480 minute summer	36.488	9.643	100 year +40% CC 480 minute winter	29.875	11.883
30 year +40% CC 480 minute winter	24.242	9.643	100 year +40% CC 600 minute summer	35.964	9.837
30 year +40% CC 600 minute summer	29.205	7.988	100 year +40% CC 600 minute winter	24.573	9.837
30 year +40% CC 600 minute winter	19.955	7.988	100 year +40% CC 720 minute summer	31.387	8.412
30 year +40% CC 720 minute summer	25.511	6.837	100 year +40% CC 720 minute winter	21.094	8.412
30 year +40% CC 720 minute winter	17.145	6.837	100 year +40% CC 960 minute summer	24.864	6.547
30 year +40% CC 960 minute summer	20.260	5.335	100 year +40% CC 960 minute winter	16.470	6.547
30 year +40% CC 960 minute winter	13.421	5.335	100 year +40% CC 1440 minute summer	17.128	4.591
30 year +40% CC 1440 minute summer	14.030	3.760	100 year +40% CC 1440 minute winter	11.511	4.591

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RE1	9	149.999	0.049	3.5	0.0894	0.0000	OK
15 minute summer	RE3	9	149.803	0.053	3.3	0.0960	0.0000	OK
15 minute summer	RE4	9	149.447	0.047	3.3	0.0838	0.0000	OK
15 minute summer	RE5	9	149.439	0.039	2.6	0.0656	0.0000	OK
15 minute summer	RE6	9	149.793	0.043	4.0	0.0829	0.0000	OK
15 minute summer	RE9	9	149.017	0.017	1.0	0.0230	0.0000	OK
720 minute winter	S1	705	147.671	0.406	3.1	0.6752	0.0000	SURCHARGED
720 minute winter	S3	705	147.671	0.354	4.6	0.4603	0.0000	SURCHARGED
720 minute winter	S4	720	147.670	0.283	3.4	0.0000	0.0000	OK
15 minute summer	S5	9	149.216	0.041	7.7	0.0460	0.0000	OK
15 minute summer	PIC1	9	149.767	0.037	4.1	0.0467	0.0000	OK
15 minute summer	PIC3	10	149.600	0.030	3.9	0.0374	0.0000	OK
15 minute summer	PIC4	10	149.289	0.044	3.9	0.0534	0.0000	OK
15 minute summer	PIC5	10	149.158	0.058	3.2	0.0720	0.0000	OK
30 minute winter	F1	85	147.265	0.019	0.5	0.0000	0.0000	OK
30 minute winter	S1A	84	147.291	0.040	0.5	0.0449	0.0000	OK
15 minute winter	Swale Inlet	12	149.095	0.085	9.0	0.1315	0.0000	OK
15 minute winter	Swale Outlet	16	148.542	0.182	14.6	0.2713	0.0000	OK
30 minute winter	S1B	85	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	RE1	2.000	PIC1	3.3	1.029	0.426	0.0432	
15 minute summer	RE3	4.000	PIC3	3.1	0.996	0.474	0.0488	
15 minute summer	RE4	5.000	PIC4	3.1	0.921	0.404	0.0321	
15 minute summer	RE5	1.000	PIC5	2.4	0.866	0.310	0.0423	
15 minute summer	RE6	3.000	S5	3.8	1.195	0.360	0.0481	
15 minute summer	RE9	6.000	S3	1.0	1.064	0.064	0.0137	
15 minute summer	S1	Hydro-Brake®	S1B	0.5				
30 minute winter	S3	2.004	S1	-13.4	-0.499	-0.243	0.2442	
30 minute winter	S4	2.003	S3	-20.5	-0.076	-0.004	33.0942	
15 minute summer	S5	2.002	S4	7.7	3.089	0.052	0.0626	
15 minute summer	PIC1	2.001	S5	4.0	1.547	0.270	0.0189	
15 minute summer	PIC3	4.001	S4	3.8	1.978	0.181	0.0115	
15 minute summer	PIC4	5.001	S4	3.8	1.171	0.385	0.0459	
15 minute summer	PIC5	1.001	Swale Inlet	3.2	0.616	0.641	0.0715	
30 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	28.7
15 minute winter	Swale Inlet	1.002	Swale Outlet	8.3	0.313	0.016	3.0188	
15 minute winter	Swale Outlet	1.003	S1	11.6	0.389	0.609	0.8795	
15 minute winter	S1B	1.005	S1A	0.5	0.168	0.054	0.0137	

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RE1	10	150.260	0.310	13.1	0.5670	0.0000	FLOOD RISK
15 minute winter	RE3	11	150.097	0.347	11.6	0.6242	0.0000	FLOOD RISK
15 minute summer	RE4	10	149.709	0.309	12.4	0.5559	0.0000	FLOOD RISK
15 minute winter	RE5	11	149.696	0.296	9.3	0.4925	0.0000	SURCHARGED
15 minute summer	RE6	10	150.031	0.281	14.9	0.5431	0.0000	SURCHARGED
15 minute summer	RE9	9	149.034	0.034	3.7	0.0450	0.0000	OK
1440 minute winter	S1	1440	148.349	1.084	4.8	1.9601	0.0000	SURCHARGED
1440 minute winter	S3	1440	148.349	1.032	7.2	1.3438	0.0000	SURCHARGED
1440 minute winter	S4	1440	148.349	0.962	5.1	0.0000	0.0000	SURCHARGED
15 minute summer	S5	8	149.240	0.064	24.3	0.0729	0.0000	OK
15 minute summer	PIC1	10	149.812	0.082	12.8	0.1025	0.0000	OK
15 minute summer	PIC3	10	149.626	0.056	11.7	0.0712	0.0000	OK
15 minute winter	PIC4	11	149.457	0.212	11.5	0.2598	0.0000	SURCHARGED
15 minute winter	PIC5	11	149.478	0.378	9.3	0.4691	0.0000	SURCHARGED
1440 minute winter	F1	1440	147.268	0.022	0.6	0.0000	0.0000	OK
1440 minute winter	S1A	1440	147.297	0.046	0.6	0.0516	0.0000	OK
15 minute winter	Swale Inlet	13	149.178	0.168	32.2	0.2616	0.0000	OK
15 minute winter	Swale Outlet	17	148.797	0.437	55.5	0.6502	0.0000	SURCHARGED
1440 minute winter	S1B	1440	147.301	0.044	0.6	0.0501	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	RE1	2.000	PIC1	10.1	1.310	1.301	0.0981	
15 minute summer	RE3	4.000	PIC3	9.0	1.290	1.390	0.0978	
15 minute summer	RE4	5.000	PIC4	9.0	1.153	1.162	0.0739	
15 minute summer	RE5	1.000	PIC5	7.3	0.977	0.937	0.1178	
15 minute summer	RE6	3.000	S5	11.6	1.484	1.114	0.1197	
15 minute summer	RE9	6.000	S3	3.6	1.553	0.239	0.0352	
1440 minute winter	S1	Hydro-Brake®	S1B	0.6				
30 minute winter	S3	2.004	S1	-53.5	-1.357	-0.970	0.3536	
15 minute summer	S4	2.003	S3	-110.5	-0.215	-0.020	90.9350	
15 minute summer	S5	2.002	S4	24.3	3.769	0.162	0.4569	
15 minute summer	PIC1	2.001	S5	12.7	1.973	0.862	0.0472	
15 minute summer	PIC3	4.001	S4	11.6	2.637	0.560	0.0267	
15 minute winter	PIC4	5.001	S4	10.9	1.391	1.098	0.1098	
15 minute winter	PIC5	1.001	Swale Inlet	8.6	1.103	1.731	0.1025	
1440 minute winter	S1A	1.006	F1	0.6	0.217	0.235	0.0088	117.8
15 minute winter	Swale Inlet	1.002	Swale Outlet	31.6	0.381	0.059	11.7596	
15 minute winter	Swale Outlet	1.003	S1	42.2	0.686	2.222	1.5835	
1440 minute winter	S1B	1.005	S1A	0.6	0.115	0.075	0.0169	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	RE1	11	150.463	0.513	15.4	0.9389	0.0000	FLOOD RISK
15 minute winter	RE3	11	150.287	0.537	14.6	0.9657	0.0000	FLOOD RISK
15 minute winter	RE4	11	149.948	0.548	14.6	0.9858	0.0000	FLOOD RISK
15 minute winter	RE5	11	149.916	0.516	11.7	0.8578	0.0000	FLOOD RISK
15 minute summer	RE6	10	150.243	0.493	18.8	0.9518	0.0000	FLOOD RISK
15 minute summer	RE9	9	149.039	0.038	4.7	0.0512	0.0000	OK
1440 minute winter	S1	1440	148.560	1.295	5.8	5.3916	0.0000	SURCHARGED
1440 minute winter	S3	1440	148.560	1.243	9.0	1.6188	0.0000	SURCHARGED
1440 minute winter	S4	1440	148.560	1.173	5.5	0.0000	0.0000	SURCHARGED
15 minute winter	S5	11	149.240	0.065	27.3	0.0734	0.0000	OK
15 minute winter	PIC1	11	149.897	0.167	14.6	0.2088	0.0000	SURCHARGED
15 minute summer	PIC3	10	149.634	0.064	14.0	0.0804	0.0000	OK
15 minute winter	PIC4	11	149.613	0.368	13.5	0.4499	0.0000	SURCHARGED
15 minute winter	PIC5	11	149.610	0.510	11.1	0.6332	0.0000	SURCHARGED
1440 minute winter	F1	1440	147.269	0.023	0.7	0.0000	0.0000	OK
1440 minute winter	S1A	1440	147.298	0.047	0.7	0.0534	0.0000	OK
15 minute winter	Swale Inlet	13	149.197	0.187	39.9	0.2906	0.0000	OK
30 minute winter	Swale Outlet	25	148.905	0.545	65.9	0.8114	0.0000	SURCHARGED
1440 minute winter	S1B	1440	147.303	0.046	0.7	0.0520	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	RE1	2.000	PIC1	11.4	1.455	1.465	0.1046	
15 minute winter	RE3	4.000	PIC3	10.8	1.506	1.672	0.1032	
15 minute summer	RE4	5.000	PIC4	10.3	1.317	1.327	0.0739	
15 minute winter	RE5	1.000	PIC5	7.9	1.013	1.015	0.1178	
15 minute winter	RE6	3.000	S5	13.4	1.716	1.288	0.1197	
15 minute summer	RE9	6.000	S3	4.5	1.657	0.303	0.0419	
1440 minute winter	S1	Hydro-Brake®	S1B	0.7				
15 minute winter	S3	2.004	S1	-66.9	-1.684	-1.214	0.3536	
15 minute winter	S4	2.003	S3	-124.4	-0.233	-0.023	128.9465	
15 minute winter	S5	2.002	S4	27.3	3.701	0.183	0.5324	
15 minute winter	PIC1	2.001	S5	13.9	1.996	0.942	0.0525	
15 minute summer	PIC3	4.001	S4	13.9	2.740	0.671	0.0308	
15 minute winter	PIC4	5.001	S4	12.5	1.595	1.259	0.1098	
15 minute winter	PIC5	1.001	Swale Inlet	10.1	1.293	2.029	0.1025	
1440 minute winter	S1A	1.006	F1	0.7	0.223	0.255	0.0093	127.5
15 minute winter	Swale Inlet	1.002	Swale Outlet	39.3	0.387	0.073	16.5800	
30 minute winter	Swale Outlet	1.003	S1	49.1	0.781	2.590	1.6413	
1440 minute winter	S1B	1.005	S1A	0.7	0.119	0.081	0.0178	

Results for 2 year 15 minute summer. 2015 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RE1	9	149.999	0.049	3.5	0.0894	0.0000	OK
15 minute summer	RE3	9	149.803	0.053	3.3	0.0960	0.0000	OK
15 minute summer	RE4	9	149.447	0.047	3.3	0.0838	0.0000	OK
15 minute summer	RE5	9	149.439	0.039	2.6	0.0656	0.0000	OK
15 minute summer	RE6	9	149.793	0.043	4.0	0.0829	0.0000	OK
15 minute summer	RE9	9	149.017	0.017	1.0	0.0230	0.0000	OK
15 minute summer	S1	10	147.464	0.199	11.2	0.3306	0.0000	OK
15 minute summer	S3	42	147.431	0.114	39.1	0.1483	0.0000	OK
15 minute summer	S4	35	147.431	0.044	18.7	0.0000	0.0000	OK
15 minute summer	S5	9	149.216	0.041	7.7	0.0460	0.0000	OK
15 minute summer	PIC1	9	149.767	0.037	4.1	0.0467	0.0000	OK
15 minute summer	PIC3	10	149.600	0.030	3.9	0.0374	0.0000	OK
15 minute summer	PIC4	10	149.289	0.044	3.9	0.0534	0.0000	OK
15 minute summer	PIC5	10	149.158	0.058	3.2	0.0720	0.0000	OK
15 minute summer	F1	19	147.265	0.019	0.5	0.0000	0.0000	OK
15 minute summer	S1A	19	147.291	0.040	0.5	0.0449	0.0000	OK
15 minute summer	Swale Inlet	12	149.090	0.080	8.6	0.1247	0.0000	OK
15 minute summer	Swale Outlet	17	148.532	0.172	13.1	0.2561	0.0000	OK
15 minute summer	S1B	18	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	RE1	2.000	PIC1	3.3	1.029	0.426	0.0432	
15 minute summer	RE3	4.000	PIC3	3.1	0.996	0.474	0.0488	
15 minute summer	RE4	5.000	PIC4	3.1	0.921	0.404	0.0321	
15 minute summer	RE5	1.000	PIC5	2.4	0.866	0.310	0.0423	
15 minute summer	RE6	3.000	S5	3.8	1.195	0.360	0.0481	
15 minute summer	RE9	6.000	S3	1.0	1.064	0.064	0.0137	
15 minute summer	S1	Hydro-Brake®	S1B	0.5				
15 minute summer	S3	2.004	S1	-10.6	-0.437	-0.193	0.2086	
15 minute summer	S4	2.003	S3	-15.9	-0.070	-0.003	22.7468	
15 minute summer	S5	2.002	S4	7.7	3.089	0.052	0.0626	
15 minute summer	PIC1	2.001	S5	4.0	1.547	0.270	0.0189	
15 minute summer	PIC3	4.001	S4	3.8	1.978	0.181	0.0115	
15 minute summer	PIC4	5.001	S4	3.8	1.171	0.385	0.0459	
15 minute summer	PIC5	1.001	Swale Inlet	3.2	0.616	0.641	0.0715	
15 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	17.8
15 minute summer	Swale Inlet	1.002	Swale Outlet	7.5	0.314	0.014	2.7684	
15 minute summer	Swale Outlet	1.003	S1	10.2	0.373	0.540	0.8163	
15 minute summer	S1B	1.005	S1A	0.5	0.163	0.054	0.0137	

Results for 2 year 15 minute winter. 2015 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	RE1	9	149.997	0.047	3.2	0.0855	0.0000	OK
15 minute winter	RE3	9	149.802	0.052	3.1	0.0938	0.0000	OK
15 minute winter	RE4	9	149.445	0.045	3.1	0.0814	0.0000	OK
15 minute winter	RE5	9	149.439	0.039	2.5	0.0643	0.0000	OK
15 minute winter	RE6	9	149.792	0.041	3.7	0.0800	0.0000	OK
15 minute winter	RE9	9	149.016	0.016	0.9	0.0218	0.0000	OK
15 minute winter	S1	15	147.472	0.207	12.7	0.3447	0.0000	OK
15 minute winter	S3	44	147.441	0.124	39.7	0.1612	0.0000	OK
15 minute winter	S4	42	147.441	0.054	22.0	0.0000	0.0000	OK
15 minute winter	S5	9	149.214	0.039	7.3	0.0445	0.0000	OK
15 minute winter	PIC1	9	149.766	0.036	3.9	0.0455	0.0000	OK
15 minute winter	PIC3	9	149.599	0.029	3.8	0.0369	0.0000	OK
15 minute winter	PIC4	10	149.288	0.043	3.8	0.0525	0.0000	OK
15 minute winter	PIC5	10	149.157	0.057	3.1	0.0704	0.0000	OK
15 minute winter	F1	20	147.265	0.019	0.5	0.0000	0.0000	OK
15 minute winter	S1A	20	147.291	0.040	0.5	0.0449	0.0000	OK
15 minute winter	Swale Inlet	12	149.095	0.085	9.0	0.1315	0.0000	OK
15 minute winter	Swale Outlet	16	148.542	0.182	14.6	0.2713	0.0000	OK
15 minute winter	S1B	20	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	RE1	2.000	PIC1	3.1	1.006	0.398	0.0411	
15 minute winter	RE3	4.000	PIC3	3.0	0.988	0.458	0.0477	
15 minute winter	RE4	5.000	PIC4	3.0	0.904	0.387	0.0313	
15 minute winter	RE5	1.000	PIC5	2.3	0.857	0.300	0.0412	
15 minute winter	RE6	3.000	S5	3.5	1.178	0.340	0.0460	
15 minute winter	RE9	6.000	S3	0.9	1.031	0.057	0.0127	
15 minute winter	S1	Hydro-Brake®	S1B	0.5				
15 minute winter	S3	2.004	S1	-12.2	-0.472	-0.221	0.2181	
15 minute winter	S4	2.003	S3	-17.7	-0.072	-0.003	25.6304	
15 minute winter	S5	2.002	S4	7.3	2.958	0.049	0.0797	
15 minute winter	PIC1	2.001	S5	3.8	1.525	0.256	0.0182	
15 minute winter	PIC3	4.001	S4	3.7	1.963	0.177	0.0113	
15 minute winter	PIC4	5.001	S4	3.7	1.162	0.373	0.0449	
15 minute winter	PIC5	1.001	Swale Inlet	3.1	0.595	0.619	0.0725	
15 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	20.8
15 minute winter	Swale Inlet	1.002	Swale Outlet	8.3	0.313	0.016	3.0188	
15 minute winter	Swale Outlet	1.003	S1	11.6	0.389	0.609	0.8795	
15 minute winter	S1B	1.005	S1A	0.5	0.168	0.054	0.0137	

Results for 2 year 30 minute summer. 2030 minute analysis at 1 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	RE1	17	149.993	0.043	2.7	0.0790	0.0000	OK
30 minute summer	RE3	17	149.797	0.047	2.5	0.0847	0.0000	OK
30 minute summer	RE4	17	149.441	0.041	2.5	0.0730	0.0000	OK
30 minute summer	RE5	17	149.435	0.035	2.0	0.0585	0.0000	OK
30 minute summer	RE6	17	149.788	0.038	3.0	0.0726	0.0000	OK
30 minute summer	RE9	17	149.016	0.016	0.8	0.0210	0.0000	OK
30 minute summer	S1	23	147.469	0.204	12.1	0.3402	0.0000	OK
30 minute summer	S3	53	147.454	0.137	36.2	0.1781	0.0000	OK
30 minute summer	S4	51	147.454	0.067	24.5	0.0000	0.0000	OK
30 minute summer	S5	17	149.211	0.036	6.3	0.0409	0.0000	OK
30 minute summer	PIC1	17	149.764	0.034	3.3	0.0420	0.0000	OK
30 minute summer	PIC3	17	149.597	0.027	3.1	0.0336	0.0000	OK
30 minute summer	PIC4	17	149.284	0.039	3.1	0.0475	0.0000	OK
30 minute summer	PIC5	17	149.150	0.050	2.6	0.0625	0.0000	OK
30 minute summer	F1	30	147.265	0.019	0.5	0.0000	0.0000	OK
30 minute summer	S1A	30	147.291	0.040	0.5	0.0449	0.0000	OK
30 minute summer	Swale Inlet	20	149.089	0.079	7.8	0.1230	0.0000	OK
30 minute summer	Swale Outlet	24	148.536	0.176	13.0	0.2627	0.0000	OK
30 minute summer	S1B	30	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	RE1	2.000	PIC1	2.7	0.977	0.347	0.0370	
30 minute summer	RE3	4.000	PIC3	2.5	0.949	0.385	0.0418	
30 minute summer	RE4	5.000	PIC4	2.5	0.864	0.322	0.0273	
30 minute summer	RE5	1.000	PIC5	2.0	0.820	0.254	0.0364	
30 minute summer	RE6	3.000	S5	3.0	1.129	0.287	0.0405	
30 minute summer	RE9	6.000	S3	0.8	1.009	0.053	0.0120	
30 minute summer	S1	Hydro-Brake®	S1B	0.5				
30 minute summer	S3	2.004	S1	-11.7	-0.461	-0.212	0.2230	
30 minute summer	S4	2.003	S3	-19.2	-0.078	-0.004	29.4005	
30 minute summer	S5	2.002	S4	6.3	2.728	0.042	0.1079	
30 minute summer	PIC1	2.001	S5	3.3	1.467	0.222	0.0164	
30 minute summer	PIC3	4.001	S4	3.1	1.867	0.148	0.0099	
30 minute summer	PIC4	5.001	S4	3.1	1.104	0.310	0.0392	
30 minute summer	PIC5	1.001	Swale Inlet	2.5	0.519	0.509	0.0667	
30 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	24.9
30 minute summer	Swale Inlet	1.002	Swale Outlet	7.3	0.253	0.014	2.8706	
30 minute summer	Swale Outlet	1.003	S1	10.8	0.380	0.570	0.8442	
30 minute summer	S1B	1.005	S1A	0.5	0.150	0.054	0.0137	

Results for 2 year 30 minute winter. 2030 minute analysis at 1 minute timestep. Mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	RE1	17	149.989	0.038	2.2	0.0705	0.0000	OK
30 minute winter	RE3	17	149.793	0.043	2.1	0.0769	0.0000	OK
30 minute winter	RE4	17	149.437	0.037	2.1	0.0662	0.0000	OK
30 minute winter	RE5	17	149.432	0.032	1.7	0.0537	0.0000	OK
30 minute winter	RE6	17	149.784	0.034	2.5	0.0659	0.0000	OK
30 minute winter	RE9	18	149.014	0.014	0.6	0.0183	0.0000	OK
30 minute winter	S1	22	147.479	0.214	13.9	0.3556	0.0000	OK
30 minute winter	S3	51	147.467	0.150	34.3	0.1947	0.0000	OK
30 minute winter	S4	49	147.467	0.080	27.4	0.0000	0.0000	OK
30 minute winter	S5	17	149.208	0.033	5.2	0.0369	0.0000	OK
30 minute winter	PIC1	17	149.760	0.030	2.7	0.0378	0.0000	OK
30 minute winter	PIC3	17	149.594	0.024	2.6	0.0308	0.0000	OK
30 minute winter	PIC4	17	149.280	0.035	2.6	0.0433	0.0000	OK
30 minute winter	PIC5	17	149.146	0.046	2.2	0.0572	0.0000	OK
30 minute winter	F1	85	147.265	0.019	0.5	0.0000	0.0000	OK
30 minute winter	S1A	84	147.291	0.040	0.5	0.0449	0.0000	OK
30 minute winter	Swale Inlet	21	149.091	0.080	7.9	0.1252	0.0000	OK
30 minute winter	Swale Outlet	24	148.542	0.182	13.6	0.2708	0.0000	OK
30 minute winter	S1B	85	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	RE1	2.000	PIC1	2.2	0.926	0.283	0.0318	
30 minute winter	RE3	4.000	PIC3	2.1	0.908	0.325	0.0369	
30 minute winter	RE4	5.000	PIC4	2.1	0.825	0.270	0.0240	
30 minute winter	RE5	1.000	PIC5	1.7	0.786	0.217	0.0324	
30 minute winter	RE6	3.000	S5	2.5	1.075	0.240	0.0355	
30 minute winter	RE9	6.000	S3	0.6	0.928	0.040	0.0099	
30 minute winter	S1	Hydro-Brake®	S1B	0.5				
30 minute winter	S3	2.004	S1	-13.4	-0.499	-0.243	0.2442	
30 minute winter	S4	2.003	S3	-20.5	-0.076	-0.004	33.0942	
30 minute winter	S5	2.002	S4	5.2	2.544	0.035	0.1374	
30 minute winter	PIC1	2.001	S5	2.7	1.393	0.182	0.0142	
30 minute winter	PIC3	4.001	S4	2.6	1.780	0.125	0.0088	
30 minute winter	PIC4	5.001	S4	2.6	1.055	0.261	0.0346	
30 minute winter	PIC5	1.001	Swale Inlet	2.2	0.465	0.436	0.0651	
30 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	28.7
30 minute winter	Swale Inlet	1.002	Swale Outlet	7.6	0.242	0.014	3.0157	
30 minute winter	Swale Outlet	1.003	S1	11.5	0.388	0.607	0.8773	
30 minute winter	S1B	1.005	S1A	0.5	0.155	0.054	0.0137	

Results for 2 year 60 minute summer. 2060 minute analysis at 1 minute timestep. Mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	RE1	32	149.985	0.035	1.8	0.0633	0.0000	OK
60 minute summer	RE3	32	149.788	0.038	1.7	0.0686	0.0000	OK
60 minute summer	RE4	32	149.433	0.033	1.7	0.0590	0.0000	OK
60 minute summer	RE5	32	149.429	0.029	1.4	0.0485	0.0000	OK
60 minute summer	RE6	32	149.781	0.031	2.1	0.0600	0.0000	OK
60 minute summer	RE9	33	149.013	0.013	0.5	0.0168	0.0000	OK
60 minute summer	S1	79	147.477	0.211	11.8	0.3521	0.0000	OK
60 minute summer	S3	79	147.476	0.159	28.2	0.2075	0.0000	OK
60 minute summer	S4	77	147.476	0.089	24.3	0.0000	0.0000	OK
60 minute summer	S5	32	149.205	0.030	4.3	0.0338	0.0000	OK
60 minute summer	PIC1	32	149.757	0.027	2.2	0.0338	0.0000	OK
60 minute summer	PIC3	32	149.592	0.022	2.1	0.0276	0.0000	OK
60 minute summer	PIC4	32	149.277	0.032	2.1	0.0386	0.0000	OK
60 minute summer	PIC5	32	149.141	0.041	1.8	0.0510	0.0000	OK
60 minute summer	F1	49	147.265	0.019	0.5	0.0000	0.0000	OK
60 minute summer	S1A	49	147.291	0.040	0.5	0.0449	0.0000	OK
60 minute summer	Swale Inlet	35	149.082	0.072	6.5	0.1120	0.0000	OK
60 minute summer	Swale Outlet	39	148.528	0.167	11.1	0.2494	0.0000	OK
60 minute summer	S1B	49	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	RE1	2.000	PIC1	1.8	0.880	0.231	0.0274	
60 minute summer	RE3	4.000	PIC3	1.7	0.859	0.263	0.0316	
60 minute summer	RE4	5.000	PIC4	1.7	0.781	0.219	0.0205	
60 minute summer	RE5	1.000	PIC5	1.4	0.745	0.178	0.0281	
60 minute summer	RE6	3.000	S5	2.1	1.025	0.201	0.0313	
60 minute summer	RE9	6.000	S3	0.5	0.879	0.033	0.0087	
60 minute summer	S1	Hydro-Brake®	S1B	0.5				
60 minute summer	S3	2.004	S1	-11.3	-0.453	-0.205	0.2594	
60 minute summer	S4	2.003	S3	-16.7	-0.071	-0.003	36.1033	
60 minute summer	S5	2.002	S4	4.3	2.398	0.029	0.1608	
60 minute summer	PIC1	2.001	S5	2.2	1.317	0.148	0.0122	
60 minute summer	PIC3	4.001	S4	2.1	1.675	0.100	0.0075	
60 minute summer	PIC4	5.001	S4	2.1	0.994	0.211	0.0296	
60 minute summer	PIC5	1.001	Swale Inlet	1.8	0.427	0.355	0.0574	
60 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	32.4
60 minute summer	Swale Inlet	1.002	Swale Outlet	6.2	0.214	0.012	2.6529	
60 minute summer	Swale Outlet	1.003	S1	9.7	0.365	0.510	0.7881	
60 minute summer	S1B	1.005	S1A	0.5	0.130	0.054	0.0137	

Results for 2 year 60 minute winter. 2060 minute analysis at 1 minute timestep. Mass balance: 99.91%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	RE1	32	149.980	0.030	1.4	0.0555	0.0000	OK
60 minute winter	RE3	34	149.783	0.033	1.3	0.0596	0.0000	OK
60 minute winter	RE4	31	149.429	0.028	1.3	0.0512	0.0000	OK
60 minute winter	RE5	33	149.426	0.026	1.1	0.0429	0.0000	OK
60 minute winter	RE6	33	149.777	0.027	1.6	0.0521	0.0000	OK
60 minute winter	RE9	34	149.011	0.011	0.4	0.0151	0.0000	OK
60 minute winter	S1	82	147.493	0.228	11.9	0.3792	0.0000	SURCHARGED
60 minute winter	S3	82	147.493	0.176	22.8	0.2287	0.0000	OK
60 minute winter	S4	77	147.493	0.106	22.1	0.0000	0.0000	OK
60 minute winter	S5	31	149.201	0.026	3.3	0.0295	0.0000	OK
60 minute winter	PIC1	33	149.754	0.024	1.7	0.0296	0.0000	OK
60 minute winter	PIC3	34	149.589	0.019	1.6	0.0241	0.0000	OK
60 minute winter	PIC4	32	149.273	0.027	1.6	0.0336	0.0000	OK
60 minute winter	PIC5	33	149.136	0.036	1.4	0.0449	0.0000	OK
60 minute winter	F1	431	147.265	0.019	0.5	0.0000	0.0000	OK
60 minute winter	S1A	431	147.291	0.040	0.5	0.0449	0.0000	OK
60 minute winter	Swale Inlet	36	149.079	0.069	5.8	0.1066	0.0000	OK
60 minute winter	Swale Outlet	39	148.524	0.164	10.0	0.2439	0.0000	OK
60 minute winter	S1B	427	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	RE1	2.000	PIC1	1.4	0.823	0.180	0.0228	
60 minute winter	RE3	4.000	PIC3	1.3	0.799	0.202	0.0261	
60 minute winter	RE4	5.000	PIC4	1.3	0.728	0.167	0.0169	
60 minute winter	RE5	1.000	PIC5	1.1	0.697	0.141	0.0238	
60 minute winter	RE6	3.000	S5	1.6	0.951	0.154	0.0257	
60 minute winter	RE9	6.000	S3	0.4	0.821	0.027	0.0074	
60 minute winter	S1	Hydro-Brake®	S1B	0.5				
60 minute winter	S3	2.004	S1	-11.4	-0.456	-0.208	0.2801	
60 minute winter	S4	2.003	S3	-15.5	-0.065	-0.003	40.9357	
60 minute winter	S5	2.002	S4	3.4	2.166	0.023	0.2004	
60 minute winter	PIC1	2.001	S5	1.7	1.228	0.115	0.0101	
60 minute winter	PIC3	4.001	S4	1.6	1.550	0.077	0.0062	
60 minute winter	PIC4	5.001	S4	1.6	0.922	0.161	0.0244	
60 minute winter	PIC5	1.001	Swale Inlet	1.4	0.383	0.281	0.0533	
60 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	37.3
60 minute winter	Swale Inlet	1.002	Swale Outlet	5.6	0.194	0.011	2.5611	
60 minute winter	Swale Outlet	1.003	S1	9.2	0.359	0.487	0.7654	
60 minute winter	S1B	1.005	S1A	0.5	0.140	0.054	0.0137	

Results for 2 year 120 minute summer. 2120 minute analysis at 2 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	RE1	62	149.980	0.030	1.4	0.0551	0.0000	OK
120 minute summer	RE3	64	149.783	0.033	1.3	0.0596	0.0000	OK
120 minute summer	RE4	62	149.429	0.028	1.3	0.0512	0.0000	OK
120 minute summer	RE5	62	149.425	0.025	1.1	0.0423	0.0000	OK
120 minute summer	RE6	62	149.777	0.027	1.6	0.0517	0.0000	OK
120 minute summer	RE9	64	149.011	0.011	0.4	0.0151	0.0000	OK
120 minute summer	S1	132	147.531	0.266	11.6	0.4433	0.0000	SURCHARGED
120 minute summer	S3	132	147.531	0.214	19.5	0.2789	0.0000	OK
120 minute summer	S4	136	147.531	0.144	16.9	0.0000	0.0000	OK
120 minute summer	S5	62	149.198	0.023	3.2	0.0259	0.0000	OK
120 minute summer	PIC1	62	149.753	0.023	1.7	0.0293	0.0000	OK
120 minute summer	PIC3	64	149.589	0.019	1.6	0.0241	0.0000	OK
120 minute summer	PIC4	64	149.273	0.027	1.6	0.0336	0.0000	OK
120 minute summer	PIC5	62	149.135	0.035	1.4	0.0440	0.0000	OK
120 minute summer	F1	916	147.265	0.019	0.5	0.0000	0.0000	OK
120 minute summer	S1A	916	147.291	0.040	0.5	0.0449	0.0000	OK
120 minute summer	Swale Inlet	66	149.077	0.067	5.5	0.1043	0.0000	OK
120 minute summer	Swale Outlet	68	148.521	0.161	9.6	0.2395	0.0000	OK
120 minute summer	S1B	914	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	RE1	2.000	PIC1	1.4	0.820	0.177	0.0225	
120 minute summer	RE3	4.000	PIC3	1.3	0.799	0.202	0.0261	
120 minute summer	RE4	5.000	PIC4	1.3	0.727	0.167	0.0169	
120 minute summer	RE5	1.000	PIC5	1.1	0.691	0.137	0.0233	
120 minute summer	RE6	3.000	S5	1.6	0.947	0.151	0.0255	
120 minute summer	RE9	6.000	S3	0.4	0.821	0.027	0.0074	
120 minute summer	S1	Hydro-Brake®	S1B	0.5				
120 minute summer	S3	2.004	S1	-11.0	-0.433	-0.200	0.3166	
120 minute summer	S4	2.003	S3	-10.5	-0.042	-0.002	52.4576	
120 minute summer	S5	2.002	S4	3.2	1.916	0.022	0.2942	
120 minute summer	PIC1	2.001	S5	1.7	1.219	0.112	0.0100	
120 minute summer	PIC3	4.001	S4	1.6	1.550	0.077	0.0062	
120 minute summer	PIC4	5.001	S4	1.6	0.922	0.161	0.0244	
120 minute summer	PIC5	1.001	Swale Inlet	1.3	0.352	0.270	0.0521	
120 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	50.3
120 minute summer	Swale Inlet	1.002	Swale Outlet	5.4	0.189	0.010	2.4978	
120 minute summer	Swale Outlet	1.003	S1	8.9	0.354	0.468	0.7472	
120 minute summer	S1B	1.005	S1A	0.5	0.112	0.054	0.0137	

Results for 2 year 120 minute winter. 2120 minute analysis at 2 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	RE1	62	149.976	0.026	1.1	0.0484	0.0000	OK
120 minute winter	RE3	66	149.779	0.029	1.0	0.0521	0.0000	OK
120 minute winter	RE4	60	149.425	0.025	1.0	0.0448	0.0000	OK
120 minute winter	RE5	64	149.422	0.022	0.8	0.0365	0.0000	OK
120 minute winter	RE6	64	149.773	0.023	1.2	0.0450	0.0000	OK
120 minute winter	RE9	64	149.010	0.010	0.3	0.0132	0.0000	OK
120 minute winter	S1	136	147.556	0.291	10.2	0.4850	0.0000	SURCHARGED
120 minute winter	S3	136	147.556	0.239	16.3	0.3115	0.0000	OK
120 minute winter	S4	132	147.556	0.169	14.5	0.0000	0.0000	OK
120 minute winter	S5	62	149.195	0.020	2.5	0.0231	0.0000	OK
120 minute winter	PIC1	62	149.751	0.021	1.4	0.0263	0.0000	OK
120 minute winter	PIC3	62	149.587	0.017	1.3	0.0217	0.0000	OK
120 minute winter	PIC4	62	149.270	0.025	1.3	0.0300	0.0000	OK
120 minute winter	PIC5	62	149.132	0.031	1.1	0.0391	0.0000	OK
120 minute winter	F1	1194	147.265	0.019	0.5	0.0000	0.0000	OK
120 minute winter	S1A	1194	147.291	0.040	0.5	0.0449	0.0000	OK
120 minute winter	Swale Inlet	66	149.070	0.060	4.5	0.0928	0.0000	OK
120 minute winter	Swale Outlet	70	148.509	0.149	7.8	0.2225	0.0000	OK
120 minute winter	S1B	1194	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	RE1	2.000	PIC1	1.1	0.760	0.139	0.0190	
120 minute winter	RE3	4.000	PIC3	1.0	0.747	0.156	0.0219	
120 minute winter	RE4	5.000	PIC4	1.0	0.681	0.129	0.0142	
120 minute winter	RE5	1.000	PIC5	0.8	0.637	0.102	0.0189	
120 minute winter	RE6	3.000	S5	1.2	0.877	0.115	0.0209	
120 minute winter	RE9	6.000	S3	0.3	0.753	0.020	0.0061	
120 minute winter	S1	Hydro-Brake®	S1B	0.5				
120 minute winter	S3	2.004	S1	-9.6	-0.368	-0.173	0.3368	
120 minute winter	S4	2.003	S3	-9.7	-0.045	-0.002	59.8057	
120 minute winter	S5	2.002	S4	2.5	1.868	0.017	0.3505	
120 minute winter	PIC1	2.001	S5	1.3	1.149	0.091	0.0086	
120 minute winter	PIC3	4.001	S4	1.3	1.455	0.062	0.0054	
120 minute winter	PIC4	5.001	S4	1.3	0.865	0.129	0.0208	
120 minute winter	PIC5	1.001	Swale Inlet	1.1	0.316	0.216	0.0451	
120 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	57.0
120 minute winter	Swale Inlet	1.002	Swale Outlet	4.4	0.170	0.008	2.2203	
120 minute winter	Swale Outlet	1.003	S1	7.6	0.335	0.400	0.6779	
120 minute winter	S1B	1.005	S1A	0.5	0.118	0.054	0.0137	

Results for 2 year 180 minute summer. 2180 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	RE1	92	149.977	0.027	1.1	0.0486	0.0000	OK
180 minute summer	RE3	92	149.780	0.030	1.1	0.0539	0.0000	OK
180 minute summer	RE4	92	149.426	0.026	1.1	0.0464	0.0000	OK
180 minute summer	RE5	92	149.423	0.023	0.9	0.0384	0.0000	OK
180 minute summer	RE6	92	149.774	0.024	1.3	0.0464	0.0000	OK
180 minute summer	RE9	96	149.010	0.010	0.3	0.0132	0.0000	OK
180 minute summer	S1	192	147.560	0.295	9.9	0.4918	0.0000	SURCHARGED
180 minute summer	S3	192	147.560	0.243	16.1	0.3169	0.0000	OK
180 minute summer	S4	188	147.560	0.173	10.4	0.0000	0.0000	OK
180 minute summer	S5	92	149.196	0.021	2.6	0.0235	0.0000	OK
180 minute summer	PIC1	92	149.751	0.021	1.4	0.0266	0.0000	OK
180 minute summer	PIC3	92	149.588	0.018	1.4	0.0222	0.0000	OK
180 minute summer	PIC4	92	149.270	0.025	1.4	0.0308	0.0000	OK
180 minute summer	PIC5	92	149.133	0.033	1.2	0.0407	0.0000	OK
180 minute summer	F1	1312	147.265	0.019	0.5	0.0000	0.0000	OK
180 minute summer	S1A	1312	147.291	0.040	0.5	0.0449	0.0000	OK
180 minute summer	Swale Inlet	96	149.070	0.060	4.5	0.0939	0.0000	OK
180 minute summer	Swale Outlet	100	148.509	0.149	8.0	0.2224	0.0000	OK
180 minute summer	S1B	1316	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	RE1	2.000	PIC1	1.1	0.761	0.140	0.0192	
180 minute summer	RE3	4.000	PIC3	1.1	0.752	0.166	0.0229	
180 minute summer	RE4	5.000	PIC4	1.1	0.686	0.139	0.0148	
180 minute summer	RE5	1.000	PIC5	0.9	0.655	0.113	0.0203	
180 minute summer	RE6	3.000	S5	1.3	0.891	0.122	0.0219	
180 minute summer	RE9	6.000	S3	0.3	0.753	0.020	0.0061	
180 minute summer	S1	Hydro-Brake®	S1B	0.5				
180 minute summer	S3	2.004	S1	-9.3	-0.344	-0.168	0.3397	
180 minute summer	S4	2.003	S3	-6.9	-0.026	-0.001	61.1725	
180 minute summer	S5	2.002	S4	2.6	1.659	0.018	0.3597	
180 minute summer	PIC1	2.001	S5	1.4	1.156	0.093	0.0087	
180 minute summer	PIC3	4.001	S4	1.4	1.475	0.065	0.0055	
180 minute summer	PIC4	5.001	S4	1.3	0.877	0.136	0.0216	
180 minute summer	PIC5	1.001	Swale Inlet	1.2	0.339	0.233	0.0458	
180 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	59.3
180 minute summer	Swale Inlet	1.002	Swale Outlet	4.5	0.174	0.008	2.2173	
180 minute summer	Swale Outlet	1.003	S1	7.6	0.335	0.400	0.6777	
180 minute summer	S1B	1.005	S1A	0.5	0.108	0.054	0.0137	

Results for 2 year 180 minute winter. 2180 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	RE1	88	149.973	0.023	0.8	0.0416	0.0000	OK
180 minute winter	RE3	96	149.776	0.026	0.8	0.0464	0.0000	OK
180 minute winter	RE4	92	149.422	0.022	0.8	0.0398	0.0000	OK
180 minute winter	RE5	96	149.419	0.019	0.6	0.0316	0.0000	OK
180 minute winter	RE6	92	149.771	0.021	1.0	0.0407	0.0000	OK
180 minute winter	RE9	84	149.008	0.008	0.2	0.0109	0.0000	OK
180 minute winter	S1	200	147.589	0.324	8.2	0.5397	0.0000	SURCHARGED
180 minute winter	S3	200	147.589	0.272	13.0	0.3544	0.0000	OK
180 minute winter	S4	204	147.589	0.202	10.2	0.0000	0.0000	OK
180 minute winter	S5	92	149.193	0.018	2.0	0.0206	0.0000	OK
180 minute winter	PIC1	92	149.748	0.018	1.0	0.0227	0.0000	OK
180 minute winter	PIC3	96	149.585	0.015	1.0	0.0192	0.0000	OK
180 minute winter	PIC4	92	149.267	0.022	1.0	0.0265	0.0000	OK
180 minute winter	PIC5	96	149.127	0.027	0.8	0.0336	0.0000	OK
180 minute winter	F1	92	147.265	0.019	0.5	0.0000	0.0000	OK
180 minute winter	S1A	92	147.291	0.040	0.5	0.0449	0.0000	OK
180 minute winter	Swale Inlet	100	149.062	0.052	3.5	0.0816	0.0000	OK
180 minute winter	Swale Outlet	100	148.496	0.135	6.2	0.2017	0.0000	OK
180 minute winter	S1B	92	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	RE1	2.000	PIC1	0.8	0.700	0.103	0.0153	
180 minute winter	RE3	4.000	PIC3	0.8	0.695	0.124	0.0185	
180 minute winter	RE4	5.000	PIC4	0.8	0.632	0.103	0.0119	
180 minute winter	RE5	1.000	PIC5	0.6	0.586	0.077	0.0154	
180 minute winter	RE6	3.000	S5	1.0	0.829	0.095	0.0182	
180 minute winter	RE9	6.000	S3	0.2	0.666	0.013	0.0046	
180 minute winter	S1	Hydro-Brake®	S1B	0.5				
180 minute winter	S3	2.004	S1	-7.6	-0.280	-0.138	0.3534	
180 minute winter	S4	2.003	S3	-6.7	-0.024	-0.001	69.6237	
180 minute winter	S5	2.002	S4	2.0	1.653	0.013	0.4117	
180 minute winter	PIC1	2.001	S5	1.0	1.056	0.068	0.0069	
180 minute winter	PIC3	4.001	S4	1.0	1.352	0.048	0.0045	
180 minute winter	PIC4	5.001	S4	1.0	0.807	0.101	0.0175	
180 minute winter	PIC5	1.001	Swale Inlet	0.8	0.290	0.160	0.0384	
180 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	59.1
180 minute winter	Swale Inlet	1.002	Swale Outlet	3.5	0.155	0.007	1.9161	
180 minute winter	Swale Outlet	1.003	S1	6.1	0.311	0.322	0.5921	
180 minute winter	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 240 minute summer. 2240 minute analysis at 4 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	RE1	124	149.974	0.024	0.9	0.0442	0.0000	OK
240 minute summer	RE3	124	149.777	0.027	0.9	0.0493	0.0000	OK
240 minute summer	RE4	124	149.424	0.024	0.9	0.0424	0.0000	OK
240 minute summer	RE5	124	149.421	0.020	0.7	0.0341	0.0000	OK
240 minute summer	RE6	124	149.772	0.022	1.1	0.0430	0.0000	OK
240 minute summer	RE9	124	149.010	0.010	0.3	0.0132	0.0000	OK
240 minute summer	S1	256	147.581	0.316	8.7	0.5265	0.0000	SURCHARGED
240 minute summer	S3	256	147.581	0.264	14.0	0.3440	0.0000	OK
240 minute summer	S4	260	147.581	0.194	10.2	0.0000	0.0000	OK
240 minute summer	S5	124	149.194	0.019	2.2	0.0216	0.0000	OK
240 minute summer	PIC1	124	149.749	0.019	1.1	0.0238	0.0000	OK
240 minute summer	PIC3	124	149.586	0.016	1.1	0.0201	0.0000	OK
240 minute summer	PIC4	124	149.268	0.023	1.1	0.0278	0.0000	OK
240 minute summer	PIC5	124	149.129	0.029	0.9	0.0356	0.0000	OK
240 minute summer	F1	1608	147.265	0.019	0.5	0.0000	0.0000	OK
240 minute summer	S1A	1608	147.291	0.040	0.5	0.0449	0.0000	OK
240 minute summer	Swale Inlet	128	149.065	0.055	3.9	0.0860	0.0000	OK
240 minute summer	Swale Outlet	132	148.500	0.140	6.8	0.2079	0.0000	OK
240 minute summer	S1B	1604	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	RE1	2.000	PIC1	0.9	0.728	0.116	0.0166	
240 minute summer	RE3	4.000	PIC3	0.9	0.722	0.140	0.0201	
240 minute summer	RE4	5.000	PIC4	0.9	0.657	0.116	0.0129	
240 minute summer	RE5	1.000	PIC5	0.7	0.613	0.090	0.0172	
240 minute summer	RE6	3.000	S5	1.1	0.856	0.106	0.0197	
240 minute summer	RE9	6.000	S3	0.3	0.753	0.020	0.0061	
240 minute summer	S1	Hydro-Brake®	S1B	0.5				
240 minute summer	S3	2.004	S1	-8.1	-0.282	-0.147	0.3512	
240 minute summer	S4	2.003	S3	-5.8	-0.024	-0.001	67.2950	
240 minute summer	S5	2.002	S4	2.2	1.536	0.015	0.3993	
240 minute summer	PIC1	2.001	S5	1.1	1.085	0.074	0.0074	
240 minute summer	PIC3	4.001	S4	1.1	1.390	0.053	0.0048	
240 minute summer	PIC4	5.001	S4	1.1	0.829	0.111	0.0187	
240 minute summer	PIC5	1.001	Swale Inlet	0.9	0.302	0.180	0.0407	
240 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	60.8
240 minute summer	Swale Inlet	1.002	Swale Outlet	3.8	0.163	0.007	2.0075	
240 minute summer	Swale Outlet	1.003	S1	6.5	0.318	0.344	0.6173	
240 minute summer	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 240 minute winter. 2240 minute analysis at 4 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	RE1	120	149.971	0.021	0.7	0.0388	0.0000	OK
240 minute winter	RE3	124	149.774	0.024	0.7	0.0433	0.0000	OK
240 minute winter	RE4	124	149.421	0.021	0.7	0.0371	0.0000	OK
240 minute winter	RE5	120	149.417	0.017	0.5	0.0289	0.0000	OK
240 minute winter	RE6	124	149.769	0.019	0.8	0.0367	0.0000	OK
240 minute winter	RE9	112	149.008	0.008	0.2	0.0109	0.0000	OK
240 minute winter	S1	248	147.613	0.348	7.0	0.5788	0.0000	SURCHARGED
240 minute winter	S3	248	147.613	0.296	10.9	0.3849	0.0000	SURCHARGED
240 minute winter	S4	252	147.613	0.226	9.0	0.0000	0.0000	OK
240 minute winter	S5	124	149.192	0.017	1.7	0.0192	0.0000	OK
240 minute winter	PIC1	124	149.747	0.017	0.9	0.0215	0.0000	OK
240 minute winter	PIC3	124	149.584	0.014	0.9	0.0182	0.0000	OK
240 minute winter	PIC4	124	149.266	0.021	0.9	0.0251	0.0000	OK
240 minute winter	PIC5	120	149.125	0.025	0.7	0.0314	0.0000	OK
240 minute winter	F1	1972	147.265	0.019	0.5	0.0000	0.0000	OK
240 minute winter	S1A	1972	147.291	0.040	0.5	0.0449	0.0000	OK
240 minute winter	Swale Inlet	128	149.058	0.048	3.0	0.0746	0.0000	OK
240 minute winter	Swale Outlet	132	148.486	0.126	5.3	0.1873	0.0000	OK
240 minute winter	S1B	1968	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	RE1	2.000	PIC1	0.7	0.669	0.090	0.0140	
240 minute winter	RE3	4.000	PIC3	0.7	0.665	0.109	0.0169	
240 minute winter	RE4	5.000	PIC4	0.7	0.604	0.090	0.0109	
240 minute winter	RE5	1.000	PIC5	0.5	0.555	0.064	0.0136	
240 minute winter	RE6	3.000	S5	0.8	0.780	0.077	0.0157	
240 minute winter	RE9	6.000	S3	0.2	0.666	0.013	0.0046	
240 minute winter	S1	Hydro-Brake®	S1B	0.5				
240 minute winter	S3	2.004	S1	-6.5	-0.227	-0.117	0.3536	
240 minute winter	S4	2.003	S3	-5.7	-0.019	-0.001	76.4985	
240 minute winter	S5	2.002	S4	1.7	1.504	0.011	0.4370	
240 minute winter	PIC1	2.001	S5	0.9	1.024	0.061	0.0064	
240 minute winter	PIC3	4.001	S4	0.9	1.310	0.043	0.0042	
240 minute winter	PIC4	5.001	S4	0.9	0.782	0.091	0.0162	
240 minute winter	PIC5	1.001	Swale Inlet	0.7	0.287	0.140	0.0345	
240 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	59.7
240 minute winter	Swale Inlet	1.002	Swale Outlet	3.0	0.146	0.006	1.7132	
240 minute winter	Swale Outlet	1.003	S1	5.2	0.294	0.274	0.5350	
240 minute winter	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 360 minute summer. 2360 minute analysis at 8 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	RE1	184	149.971	0.021	0.7	0.0387	0.0000	OK
360 minute summer	RE3	184	149.774	0.024	0.7	0.0431	0.0000	OK
360 minute summer	RE4	184	149.421	0.021	0.7	0.0370	0.0000	OK
360 minute summer	RE5	184	149.417	0.017	0.5	0.0289	0.0000	OK
360 minute summer	RE6	184	149.769	0.019	0.8	0.0365	0.0000	OK
360 minute summer	RE9	184	149.008	0.008	0.2	0.0109	0.0000	OK
360 minute summer	S1	384	147.606	0.341	6.7	0.5677	0.0000	SURCHARGED
360 minute summer	S3	376	147.606	0.289	10.8	0.3761	0.0000	SURCHARGED
360 minute summer	S4	368	147.606	0.219	8.1	0.0000	0.0000	OK
360 minute summer	S5	184	149.192	0.017	1.7	0.0190	0.0000	OK
360 minute summer	PIC1	184	149.747	0.017	0.9	0.0213	0.0000	OK
360 minute summer	PIC3	184	149.584	0.014	0.9	0.0180	0.0000	OK
360 minute summer	PIC4	184	149.265	0.020	0.9	0.0249	0.0000	OK
360 minute summer	PIC5	184	149.125	0.025	0.7	0.0312	0.0000	OK
360 minute summer	F1	2016	147.265	0.019	0.5	0.0000	0.0000	OK
360 minute summer	S1A	2016	147.291	0.040	0.5	0.0449	0.0000	OK
360 minute summer	Swale Inlet	192	149.057	0.046	2.9	0.0723	0.0000	OK
360 minute summer	Swale Outlet	192	148.483	0.123	5.0	0.1835	0.0000	OK
360 minute summer	S1B	2016	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	RE1	2.000	PIC1	0.7	0.668	0.089	0.0139	
360 minute summer	RE3	4.000	PIC3	0.7	0.663	0.107	0.0168	
360 minute summer	RE4	5.000	PIC4	0.7	0.604	0.089	0.0108	
360 minute summer	RE5	1.000	PIC5	0.5	0.555	0.064	0.0136	
360 minute summer	RE6	3.000	S5	0.8	0.778	0.076	0.0156	
360 minute summer	RE9	6.000	S3	0.2	0.666	0.013	0.0046	
360 minute summer	S1	Hydro-Brake®	S1B	0.5				
360 minute summer	S3	2.004	S1	-6.1	-0.206	-0.111	0.3536	
360 minute summer	S4	2.003	S3	-4.7	0.022	-0.001	74.6418	
360 minute summer	S5	2.002	S4	1.7	1.270	0.011	0.4333	
360 minute summer	PIC1	2.001	S5	0.9	1.018	0.060	0.0064	
360 minute summer	PIC3	4.001	S4	0.9	1.303	0.043	0.0041	
360 minute summer	PIC4	5.001	S4	0.9	0.777	0.089	0.0160	
360 minute summer	PIC5	1.001	Swale Inlet	0.7	0.278	0.139	0.0331	
360 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	62.9
360 minute summer	Swale Inlet	1.002	Swale Outlet	2.8	0.146	0.005	1.6636	
360 minute summer	Swale Outlet	1.003	S1	5.0	0.289	0.262	0.5203	
360 minute summer	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 360 minute winter. 2360 minute analysis at 8 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	RE1	176	149.968	0.018	0.5	0.0331	0.0000	OK
360 minute winter	RE3	184	149.771	0.020	0.5	0.0368	0.0000	OK
360 minute winter	RE4	184	149.418	0.018	0.5	0.0316	0.0000	OK
360 minute winter	RE5	184	149.416	0.016	0.4	0.0259	0.0000	OK
360 minute winter	RE6	184	149.767	0.016	0.6	0.0318	0.0000	OK
360 minute winter	RE9	128	149.006	0.006	0.1	0.0079	0.0000	OK
360 minute winter	S1	368	147.643	0.378	5.3	0.6291	0.0000	SURCHARGED
360 minute winter	S3	368	147.643	0.326	8.2	0.4242	0.0000	SURCHARGED
360 minute winter	S4	376	147.643	0.256	6.3	0.0000	0.0000	OK
360 minute winter	S5	192	149.190	0.014	1.2	0.0164	0.0000	OK
360 minute winter	PIC1	176	149.744	0.014	0.6	0.0176	0.0000	OK
360 minute winter	PIC3	184	149.582	0.012	0.6	0.0150	0.0000	OK
360 minute winter	PIC4	176	149.262	0.017	0.6	0.0206	0.0000	OK
360 minute winter	PIC5	184	149.121	0.021	0.5	0.0265	0.0000	OK
360 minute winter	F1	168	147.265	0.019	0.5	0.0000	0.0000	OK
360 minute winter	S1A	168	147.291	0.040	0.5	0.0449	0.0000	OK
360 minute winter	Swale Inlet	200	149.050	0.040	2.2	0.0626	0.0000	OK
360 minute winter	Swale Outlet	200	148.471	0.111	3.9	0.1650	0.0000	OK
360 minute winter	S1B	168	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	RE1	2.000	PIC1	0.5	0.618	0.064	0.0109	
360 minute winter	RE3	4.000	PIC3	0.5	0.612	0.078	0.0132	
360 minute winter	RE4	5.000	PIC4	0.5	0.559	0.064	0.0084	
360 minute winter	RE5	1.000	PIC5	0.4	0.521	0.051	0.0116	
360 minute winter	RE6	3.000	S5	0.6	0.717	0.058	0.0128	
360 minute winter	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
360 minute winter	S1	Hydro-Brake®	S1B	0.5				
360 minute winter	S3	2.004	S1	-4.8	-0.162	-0.086	0.3536	
360 minute winter	S4	2.003	S3	-3.9	0.019	-0.001	85.4049	
360 minute winter	S5	2.002	S4	1.2	1.402	0.008	0.4387	
360 minute winter	PIC1	2.001	S5	0.6	0.910	0.041	0.0048	
360 minute winter	PIC3	4.001	S4	0.6	1.160	0.029	0.0031	
360 minute winter	PIC4	5.001	S4	0.6	0.694	0.061	0.0122	
360 minute winter	PIC5	1.001	Swale Inlet	0.5	0.255	0.100	0.0273	
360 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	60.9
360 minute winter	Swale Inlet	1.002	Swale Outlet	2.2	0.131	0.004	1.4208	
360 minute winter	Swale Outlet	1.003	S1	3.9	0.266	0.205	0.4460	
360 minute winter	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 480 minute summer. 2480 minute analysis at 8 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	RE1	248	149.970	0.020	0.6	0.0362	0.0000	OK
480 minute summer	RE3	248	149.771	0.020	0.5	0.0368	0.0000	OK
480 minute summer	RE4	248	149.418	0.018	0.5	0.0316	0.0000	OK
480 minute summer	RE5	248	149.416	0.016	0.4	0.0259	0.0000	OK
480 minute summer	RE6	240	149.767	0.016	0.6	0.0318	0.0000	OK
480 minute summer	RE9	248	149.008	0.008	0.2	0.0109	0.0000	OK
480 minute summer	S1	496	147.621	0.356	5.6	0.5929	0.0000	SURCHARGED
480 minute summer	S3	496	147.621	0.304	8.8	0.3959	0.0000	SURCHARGED
480 minute summer	S4	488	147.621	0.234	6.0	0.0000	0.0000	OK
480 minute summer	S5	248	149.190	0.015	1.3	0.0170	0.0000	OK
480 minute summer	PIC1	248	149.745	0.015	0.7	0.0190	0.0000	OK
480 minute summer	PIC3	248	149.582	0.012	0.6	0.0150	0.0000	OK
480 minute summer	PIC4	240	149.262	0.017	0.6	0.0206	0.0000	OK
480 minute summer	PIC5	248	149.121	0.021	0.5	0.0265	0.0000	OK
480 minute summer	F1	2328	147.265	0.019	0.5	0.0000	0.0000	OK
480 minute summer	S1A	2328	147.291	0.040	0.5	0.0449	0.0000	OK
480 minute summer	Swale Inlet	248	149.052	0.042	2.4	0.0653	0.0000	OK
480 minute summer	Swale Outlet	256	148.474	0.114	4.3	0.1700	0.0000	OK
480 minute summer	S1B	2312	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	RE1	2.000	PIC1	0.6	0.656	0.077	0.0123	
480 minute summer	RE3	4.000	PIC3	0.5	0.612	0.078	0.0132	
480 minute summer	RE4	5.000	PIC4	0.5	0.559	0.064	0.0084	
480 minute summer	RE5	1.000	PIC5	0.4	0.521	0.051	0.0116	
480 minute summer	RE6	3.000	S5	0.6	0.717	0.058	0.0128	
480 minute summer	RE9	6.000	S3	0.2	0.666	0.013	0.0046	
480 minute summer	S1	Hydro-Brake®	S1B	0.5				
480 minute summer	S3	2.004	S1	-5.0	-0.159	-0.091	0.3536	
480 minute summer	S4	2.003	S3	-3.5	0.017	-0.001	79.0700	
480 minute summer	S5	2.002	S4	1.3	1.285	0.009	0.4375	
480 minute summer	PIC1	2.001	S5	0.7	0.953	0.047	0.0054	
480 minute summer	PIC3	4.001	S4	0.6	1.160	0.029	0.0031	
480 minute summer	PIC4	5.001	S4	0.6	0.694	0.061	0.0122	
480 minute summer	PIC5	1.001	Swale Inlet	0.5	0.257	0.100	0.0284	
480 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	65.0
480 minute summer	Swale Inlet	1.002	Swale Outlet	2.4	0.134	0.004	1.4816	
480 minute summer	Swale Outlet	1.003	S1	4.2	0.272	0.220	0.4657	
480 minute summer	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 480 minute winter. 2480 minute analysis at 8 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	RE1	224	149.966	0.016	0.4	0.0295	0.0000	OK
480 minute winter	RE3	232	149.768	0.018	0.4	0.0329	0.0000	OK
480 minute winter	RE4	224	149.416	0.016	0.4	0.0282	0.0000	OK
480 minute winter	RE5	224	149.414	0.014	0.3	0.0225	0.0000	OK
480 minute winter	RE6	248	149.765	0.015	0.5	0.0291	0.0000	OK
480 minute winter	RE9	176	149.006	0.006	0.1	0.0079	0.0000	OK
480 minute winter	S1	480	147.658	0.393	4.3	0.6536	0.0000	SURCHARGED
480 minute winter	S3	480	147.658	0.341	6.6	0.4435	0.0000	SURCHARGED
480 minute winter	S4	488	147.658	0.271	4.5	0.0000	0.0000	OK
480 minute winter	S5	248	149.188	0.013	1.0	0.0150	0.0000	OK
480 minute winter	PIC1	224	149.743	0.013	0.5	0.0161	0.0000	OK
480 minute winter	PIC3	232	149.581	0.011	0.5	0.0137	0.0000	OK
480 minute winter	PIC4	224	149.260	0.015	0.5	0.0188	0.0000	OK
480 minute winter	PIC5	224	149.119	0.019	0.4	0.0238	0.0000	OK
480 minute winter	F1	224	147.265	0.019	0.5	0.0000	0.0000	OK
480 minute winter	S1A	224	147.291	0.040	0.5	0.0449	0.0000	OK
480 minute winter	Swale Inlet	256	149.046	0.036	1.8	0.0557	0.0000	OK
480 minute winter	Swale Outlet	256	148.461	0.101	3.2	0.1510	0.0000	OK
480 minute winter	S1B	224	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	RE1	2.000	PIC1	0.4	0.573	0.051	0.0094	
480 minute winter	RE3	4.000	PIC3	0.4	0.567	0.062	0.0113	
480 minute winter	RE4	5.000	PIC4	0.4	0.518	0.052	0.0073	
480 minute winter	RE5	1.000	PIC5	0.3	0.478	0.038	0.0094	
480 minute winter	RE6	3.000	S5	0.5	0.680	0.048	0.0112	
480 minute winter	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
480 minute winter	S1	Hydro-Brake®	S1B	0.5				
480 minute winter	S3	2.004	S1	-3.8	-0.123	-0.069	0.3536	
480 minute winter	S4	2.003	S3	-2.9	0.019	-0.001	89.7828	
480 minute winter	S5	2.002	S4	1.0	1.270	0.007	0.4396	
480 minute winter	PIC1	2.001	S5	0.5	0.863	0.034	0.0042	
480 minute winter	PIC3	4.001	S4	0.5	1.099	0.024	0.0027	
480 minute winter	PIC4	5.001	S4	0.5	0.659	0.050	0.0107	
480 minute winter	PIC5	1.001	Swale Inlet	0.4	0.252	0.080	0.0233	
480 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	63.2
480 minute winter	Swale Inlet	1.002	Swale Outlet	1.8	0.121	0.003	1.2494	
480 minute winter	Swale Outlet	1.003	S1	3.2	0.248	0.168	0.3934	
480 minute winter	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 600 minute summer. 2610 minute analysis at 15 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	RE1	315	149.968	0.018	0.5	0.0331	0.0000	OK
600 minute summer	RE3	300	149.768	0.018	0.4	0.0329	0.0000	OK
600 minute summer	RE4	300	149.416	0.016	0.4	0.0282	0.0000	OK
600 minute summer	RE5	300	149.414	0.014	0.3	0.0225	0.0000	OK
600 minute summer	RE6	315	149.765	0.015	0.5	0.0291	0.0000	OK
600 minute summer	RE9	255	149.006	0.006	0.1	0.0079	0.0000	OK
600 minute summer	S1	615	147.623	0.358	4.6	0.5965	0.0000	SURCHARGED
600 minute summer	S3	615	147.623	0.306	7.1	0.3988	0.0000	SURCHARGED
600 minute summer	S4	600	147.623	0.236	4.7	0.0000	0.0000	OK
600 minute summer	S5	315	149.189	0.014	1.1	0.0157	0.0000	OK
600 minute summer	PIC1	315	149.744	0.014	0.6	0.0176	0.0000	OK
600 minute summer	PIC3	300	149.581	0.011	0.5	0.0137	0.0000	OK
600 minute summer	PIC4	300	149.260	0.015	0.5	0.0188	0.0000	OK
600 minute summer	PIC5	300	149.119	0.019	0.4	0.0238	0.0000	OK
600 minute summer	F1	2475	147.265	0.019	0.5	0.0000	0.0000	OK
600 minute summer	S1A	2475	147.291	0.040	0.5	0.0449	0.0000	OK
600 minute summer	Swale Inlet	315	149.047	0.037	1.9	0.0575	0.0000	OK
600 minute summer	Swale Outlet	315	148.464	0.104	3.4	0.1550	0.0000	OK
600 minute summer	S1B	2475	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	RE1	2.000	PIC1	0.5	0.618	0.064	0.0109	
600 minute summer	RE3	4.000	PIC3	0.4	0.567	0.062	0.0113	
600 minute summer	RE4	5.000	PIC4	0.4	0.518	0.052	0.0073	
600 minute summer	RE5	1.000	PIC5	0.3	0.478	0.038	0.0094	
600 minute summer	RE6	3.000	S5	0.5	0.680	0.048	0.0112	
600 minute summer	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
600 minute summer	S1	Hydro-Brake®	S1B	0.5				
600 minute summer	S3	2.004	S1	-4.1	-0.132	-0.074	0.3536	
600 minute summer	S4	2.003	S3	-2.6	0.008	0.000	79.6934	
600 minute summer	S5	2.002	S4	1.1	1.185	0.007	0.4375	
600 minute summer	PIC1	2.001	S5	0.6	0.910	0.041	0.0048	
600 minute summer	PIC3	4.001	S4	0.5	1.099	0.024	0.0027	
600 minute summer	PIC4	5.001	S4	0.5	0.659	0.050	0.0107	
600 minute summer	PIC5	1.001	Swale Inlet	0.4	0.244	0.080	0.0240	
600 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	67.7
600 minute summer	Swale Inlet	1.002	Swale Outlet	1.9	0.124	0.004	1.2966	
600 minute summer	Swale Outlet	1.003	S1	3.4	0.253	0.178	0.4082	
600 minute summer	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 600 minute winter. 2610 minute analysis at 15 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	RE1	315	149.966	0.016	0.4	0.0295	0.0000	OK
600 minute winter	RE3	270	149.766	0.016	0.3	0.0285	0.0000	OK
600 minute winter	RE4	270	149.414	0.014	0.3	0.0244	0.0000	OK
600 minute winter	RE5	300	149.414	0.014	0.3	0.0225	0.0000	OK
600 minute winter	RE6	300	149.764	0.014	0.4	0.0261	0.0000	OK
600 minute winter	RE9	240	149.006	0.006	0.1	0.0079	0.0000	OK
600 minute winter	S1	600	147.666	0.401	3.8	0.6679	0.0000	SURCHARGED
600 minute winter	S3	600	147.666	0.349	5.6	0.4546	0.0000	SURCHARGED
600 minute winter	S4	600	147.666	0.279	3.5	0.0000	0.0000	OK
600 minute winter	S5	315	149.188	0.013	0.9	0.0143	0.0000	OK
600 minute winter	PIC1	315	149.743	0.013	0.5	0.0161	0.0000	OK
600 minute winter	PIC3	270	149.580	0.010	0.4	0.0123	0.0000	OK
600 minute winter	PIC4	270	149.259	0.014	0.4	0.0169	0.0000	OK
600 minute winter	PIC5	300	149.119	0.019	0.4	0.0238	0.0000	OK
600 minute winter	F1	270	147.265	0.019	0.5	0.0000	0.0000	OK
600 minute winter	S1A	270	147.291	0.040	0.5	0.0449	0.0000	OK
600 minute winter	Swale Inlet	315	149.043	0.033	1.6	0.0520	0.0000	OK
600 minute winter	Swale Outlet	315	148.456	0.095	2.8	0.1421	0.0000	OK
600 minute winter	S1B	270	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	RE1	2.000	PIC1	0.4	0.573	0.051	0.0094	
600 minute winter	RE3	4.000	PIC3	0.3	0.515	0.047	0.0094	
600 minute winter	RE4	5.000	PIC4	0.3	0.467	0.039	0.0061	
600 minute winter	RE5	1.000	PIC5	0.3	0.478	0.038	0.0094	
600 minute winter	RE6	3.000	S5	0.4	0.637	0.038	0.0096	
600 minute winter	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
600 minute winter	S1	Hydro-Brake®	S1B	0.5				
600 minute winter	S3	2.004	S1	-3.3	-0.100	-0.060	0.3536	
600 minute winter	S4	2.003	S3	-2.0	0.020	0.000	92.2767	
600 minute winter	S5	2.002	S4	0.9	1.185	0.006	0.4395	
600 minute winter	PIC1	2.001	S5	0.5	0.863	0.034	0.0042	
600 minute winter	PIC3	4.001	S4	0.4	1.028	0.019	0.0024	
600 minute winter	PIC4	5.001	S4	0.4	0.616	0.040	0.0092	
600 minute winter	PIC5	1.001	Swale Inlet	0.4	0.251	0.080	0.0218	
600 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	66.0
600 minute winter	Swale Inlet	1.002	Swale Outlet	1.6	0.116	0.003	1.1491	
600 minute winter	Swale Outlet	1.003	S1	2.8	0.236	0.147	0.3613	
600 minute winter	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 720 minute summer. 2730 minute analysis at 15 minute timestep. Mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	RE1	375	149.966	0.016	0.4	0.0295	0.0000	OK
720 minute summer	RE3	375	149.768	0.018	0.4	0.0329	0.0000	OK
720 minute summer	RE4	375	149.416	0.016	0.4	0.0282	0.0000	OK
720 minute summer	RE5	360	149.414	0.014	0.3	0.0225	0.0000	OK
720 minute summer	RE6	375	149.765	0.015	0.5	0.0291	0.0000	OK
720 minute summer	RE9	315	149.006	0.006	0.1	0.0079	0.0000	OK
720 minute summer	S1	720	147.616	0.351	4.1	0.5841	0.0000	SURCHARGED
720 minute summer	S3	720	147.616	0.299	6.3	0.3891	0.0000	SURCHARGED
720 minute summer	S4	720	147.616	0.229	4.5	0.0000	0.0000	OK
720 minute summer	S5	375	149.188	0.013	1.0	0.0150	0.0000	OK
720 minute summer	PIC1	375	149.743	0.013	0.5	0.0161	0.0000	OK
720 minute summer	PIC3	375	149.581	0.011	0.5	0.0137	0.0000	OK
720 minute summer	PIC4	375	149.260	0.015	0.5	0.0188	0.0000	OK
720 minute summer	PIC5	360	149.119	0.019	0.4	0.0238	0.0000	OK
720 minute summer	F1	2490	147.265	0.019	0.5	0.0000	0.0000	OK
720 minute summer	S1A	2490	147.291	0.040	0.5	0.0449	0.0000	OK
720 minute summer	Swale Inlet	375	149.045	0.035	1.7	0.0539	0.0000	OK
720 minute summer	Swale Outlet	375	148.458	0.098	3.0	0.1465	0.0000	OK
720 minute summer	S1B	2490	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	RE1	2.000	PIC1	0.4	0.573	0.051	0.0094	
720 minute summer	RE3	4.000	PIC3	0.4	0.567	0.062	0.0113	
720 minute summer	RE4	5.000	PIC4	0.4	0.518	0.052	0.0073	
720 minute summer	RE5	1.000	PIC5	0.3	0.478	0.038	0.0094	
720 minute summer	RE6	3.000	S5	0.5	0.680	0.048	0.0112	
720 minute summer	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
720 minute summer	S1	Hydro-Brake®	S1B	0.5				
720 minute summer	S3	2.004	S1	-3.6	-0.119	-0.065	0.3536	
720 minute summer	S4	2.003	S3	-2.5	-0.009	0.000	77.5013	
720 minute summer	S5	2.002	S4	1.0	1.133	0.007	0.4359	
720 minute summer	PIC1	2.001	S5	0.5	0.863	0.034	0.0042	
720 minute summer	PIC3	4.001	S4	0.5	1.099	0.024	0.0027	
720 minute summer	PIC4	5.001	S4	0.5	0.659	0.050	0.0107	
720 minute summer	PIC5	1.001	Swale Inlet	0.4	0.253	0.080	0.0226	
720 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	70.6
720 minute summer	Swale Inlet	1.002	Swale Outlet	1.7	0.119	0.003	1.1983	
720 minute summer	Swale Outlet	1.003	S1	3.0	0.242	0.157	0.3770	
720 minute summer	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 720 minute winter. 2730 minute analysis at 15 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	RE1	330	149.964	0.014	0.3	0.0255	0.0000	OK
720 minute winter	RE3	345	149.766	0.016	0.3	0.0285	0.0000	OK
720 minute winter	RE4	345	149.414	0.014	0.3	0.0244	0.0000	OK
720 minute winter	RE5	300	149.411	0.011	0.2	0.0186	0.0000	OK
720 minute winter	RE6	315	149.762	0.012	0.3	0.0228	0.0000	OK
720 minute winter	RE9	285	149.006	0.006	0.1	0.0079	0.0000	OK
720 minute winter	S1	705	147.671	0.406	3.1	0.6752	0.0000	SURCHARGED
720 minute winter	S3	705	147.671	0.354	4.6	0.4603	0.0000	SURCHARGED
720 minute winter	S4	720	147.670	0.283	3.4	0.0000	0.0000	OK
720 minute winter	S5	330	149.186	0.011	0.7	0.0127	0.0000	OK
720 minute winter	PIC1	330	149.742	0.012	0.4	0.0145	0.0000	OK
720 minute winter	PIC3	345	149.580	0.010	0.4	0.0123	0.0000	OK
720 minute winter	PIC4	345	149.259	0.014	0.4	0.0169	0.0000	OK
720 minute winter	PIC5	315	149.117	0.017	0.3	0.0206	0.0000	OK
720 minute winter	F1	330	147.265	0.019	0.5	0.0000	0.0000	OK
720 minute winter	S1A	330	147.291	0.040	0.5	0.0449	0.0000	OK
720 minute winter	Swale Inlet	375	149.040	0.030	1.3	0.0460	0.0000	OK
720 minute winter	Swale Outlet	390	148.448	0.088	2.3	0.1309	0.0000	OK
720 minute winter	S1B	330	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	RE1	2.000	PIC1	0.3	0.519	0.039	0.0078	
720 minute winter	RE3	4.000	PIC3	0.3	0.515	0.047	0.0094	
720 minute winter	RE4	5.000	PIC4	0.3	0.467	0.039	0.0061	
720 minute winter	RE5	1.000	PIC5	0.2	0.423	0.026	0.0071	
720 minute winter	RE6	3.000	S5	0.3	0.583	0.029	0.0079	
720 minute winter	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
720 minute winter	S1	Hydro-Brake®	S1B	0.5				
720 minute winter	S3	2.004	S1	-2.6	-0.088	-0.047	0.3536	
720 minute winter	S4	2.003	S3	-1.9	0.014	0.000	93.5665	
720 minute winter	S5	2.002	S4	0.7	1.146	0.005	0.4396	
720 minute winter	PIC1	2.001	S5	0.4	0.807	0.027	0.0036	
720 minute winter	PIC3	4.001	S4	0.4	1.028	0.019	0.0024	
720 minute winter	PIC4	5.001	S4	0.4	0.616	0.040	0.0092	
720 minute winter	PIC5	1.001	Swale Inlet	0.3	0.242	0.060	0.0183	
720 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	68.7
720 minute winter	Swale Inlet	1.002	Swale Outlet	1.3	0.107	0.002	1.0198	
720 minute winter	Swale Outlet	1.003	S1	2.3	0.221	0.121	0.3190	
720 minute winter	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 960 minute summer. 2970 minute analysis at 15 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	RE1	480	149.964	0.014	0.3	0.0255	0.0000	OK
960 minute summer	RE3	480	149.766	0.016	0.3	0.0285	0.0000	OK
960 minute summer	RE4	480	149.414	0.014	0.3	0.0244	0.0000	OK
960 minute summer	RE5	450	149.411	0.011	0.2	0.0186	0.0000	OK
960 minute summer	RE6	495	149.764	0.014	0.4	0.0261	0.0000	OK
960 minute summer	RE9	435	149.006	0.006	0.1	0.0079	0.0000	OK
960 minute summer	S1	960	147.612	0.347	3.4	0.5771	0.0000	SURCHARGED
960 minute summer	S3	960	147.612	0.295	5.1	0.3835	0.0000	SURCHARGED
960 minute summer	S4	960	147.611	0.224	3.7	0.0000	0.0000	OK
960 minute summer	S5	495	149.187	0.012	0.8	0.0135	0.0000	OK
960 minute summer	PIC1	480	149.742	0.012	0.4	0.0145	0.0000	OK
960 minute summer	PIC3	480	149.580	0.010	0.4	0.0123	0.0000	OK
960 minute summer	PIC4	480	149.259	0.014	0.4	0.0169	0.0000	OK
960 minute summer	PIC5	450	149.117	0.017	0.3	0.0206	0.0000	OK
960 minute summer	F1	2685	147.265	0.019	0.5	0.0000	0.0000	OK
960 minute summer	S1A	2685	147.291	0.040	0.5	0.0449	0.0000	OK
960 minute summer	Swale Inlet	495	149.041	0.031	1.4	0.0481	0.0000	OK
960 minute summer	Swale Outlet	495	148.451	0.091	2.5	0.1355	0.0000	OK
960 minute summer	S1B	2685	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	RE1	2.000	PIC1	0.3	0.519	0.039	0.0078	
960 minute summer	RE3	4.000	PIC3	0.3	0.515	0.047	0.0094	
960 minute summer	RE4	5.000	PIC4	0.3	0.467	0.039	0.0061	
960 minute summer	RE5	1.000	PIC5	0.2	0.423	0.026	0.0071	
960 minute summer	RE6	3.000	S5	0.4	0.637	0.038	0.0096	
960 minute summer	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
960 minute summer	S1	Hydro-Brake®	S1B	0.5				
960 minute summer	S3	2.004	S1	-2.9	0.104	-0.052	0.3536	
960 minute summer	S4	2.003	S3	-2.2	-0.007	0.000	76.2501	
960 minute summer	S5	2.002	S4	0.8	1.107	0.005	0.4338	
960 minute summer	PIC1	2.001	S5	0.4	0.807	0.027	0.0036	
960 minute summer	PIC3	4.001	S4	0.4	1.028	0.019	0.0024	
960 minute summer	PIC4	5.001	S4	0.4	0.616	0.040	0.0092	
960 minute summer	PIC5	1.001	Swale Inlet	0.3	0.250	0.060	0.0190	
960 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	76.0
960 minute summer	Swale Inlet	1.002	Swale Outlet	1.4	0.109	0.003	1.0696	
960 minute summer	Swale Outlet	1.003	S1	2.5	0.228	0.131	0.3358	
960 minute summer	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 960 minute winter. 2970 minute analysis at 15 minute timestep. Mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	RE1	390	149.962	0.012	0.2	0.0215	0.0000	OK
960 minute winter	RE3	390	149.763	0.013	0.2	0.0239	0.0000	OK
960 minute winter	RE4	405	149.412	0.011	0.2	0.0206	0.0000	OK
960 minute winter	RE5	435	149.411	0.011	0.2	0.0186	0.0000	OK
960 minute winter	RE6	465	149.762	0.012	0.3	0.0228	0.0000	OK
960 minute winter	RE9	405	149.006	0.006	0.1	0.0079	0.0000	OK
960 minute winter	S1	945	147.655	0.390	2.6	0.6492	0.0000	SURCHARGED
960 minute winter	S3	945	147.655	0.338	3.7	0.4399	0.0000	SURCHARGED
960 minute winter	S4	945	147.655	0.268	2.9	0.0000	0.0000	OK
960 minute winter	S5	465	149.186	0.010	0.6	0.0119	0.0000	OK
960 minute winter	PIC1	450	149.740	0.010	0.3	0.0126	0.0000	OK
960 minute winter	PIC3	450	149.579	0.009	0.3	0.0108	0.0000	OK
960 minute winter	PIC4	450	149.257	0.012	0.3	0.0147	0.0000	OK
960 minute winter	PIC5	450	149.117	0.017	0.3	0.0206	0.0000	OK
960 minute winter	F1	450	147.265	0.019	0.5	0.0000	0.0000	OK
960 minute winter	S1A	450	147.291	0.040	0.5	0.0449	0.0000	OK
960 minute winter	Swale Inlet	495	149.037	0.027	1.1	0.0417	0.0000	OK
960 minute winter	Swale Outlet	525	148.441	0.081	1.9	0.1207	0.0000	OK
960 minute winter	S1B	450	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	RE1	2.000	PIC1	0.2	0.492	0.026	0.0060	
960 minute winter	RE3	4.000	PIC3	0.2	0.482	0.031	0.0072	
960 minute winter	RE4	5.000	PIC4	0.2	0.448	0.026	0.0047	
960 minute winter	RE5	1.000	PIC5	0.2	0.423	0.026	0.0071	
960 minute winter	RE6	3.000	S5	0.3	0.583	0.029	0.0079	
960 minute winter	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
960 minute winter	S1	Hydro-Brake®	S1B	0.5				
960 minute winter	S3	2.004	S1	-2.1	-0.069	-0.038	0.3536	
960 minute winter	S4	2.003	S3	-1.7	-0.006	0.000	89.0007	
960 minute winter	S5	2.002	S4	0.6	1.133	0.004	0.4375	
960 minute winter	PIC1	2.001	S5	0.3	0.741	0.020	0.0030	
960 minute winter	PIC3	4.001	S4	0.3	0.944	0.014	0.0019	
960 minute winter	PIC4	5.001	S4	0.3	0.564	0.030	0.0075	
960 minute winter	PIC5	1.001	Swale Inlet	0.3	0.252	0.060	0.0166	
960 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	74.3
960 minute winter	Swale Inlet	1.002	Swale Outlet	1.1	0.101	0.002	0.9120	
960 minute winter	Swale Outlet	1.003	S1	1.9	0.207	0.100	0.2824	
960 minute winter	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 1440 minute summer. 3450 minute analysis at 30 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	RE1	690	149.962	0.012	0.2	0.0215	0.0000	OK
1440 minute summer	RE3	690	149.763	0.013	0.2	0.0239	0.0000	OK
1440 minute summer	RE4	690	149.412	0.011	0.2	0.0206	0.0000	OK
1440 minute summer	RE5	750	149.411	0.011	0.2	0.0186	0.0000	OK
1440 minute summer	RE6	750	149.762	0.012	0.3	0.0228	0.0000	OK
1440 minute summer	RE9	720	149.006	0.006	0.1	0.0079	0.0000	OK
1440 minute summer	S1	1290	147.598	0.333	2.6	0.5538	0.0000	SURCHARGED
1440 minute summer	S3	1290	147.598	0.281	3.6	0.3654	0.0000	SURCHARGED
1440 minute summer	S4	1290	147.598	0.211	2.6	0.0000	0.0000	OK
1440 minute summer	S5	750	149.186	0.010	0.6	0.0119	0.0000	OK
1440 minute summer	PIC1	750	149.740	0.010	0.3	0.0126	0.0000	OK
1440 minute summer	PIC3	750	149.579	0.009	0.3	0.0108	0.0000	OK
1440 minute summer	PIC4	750	149.257	0.012	0.3	0.0147	0.0000	OK
1440 minute summer	PIC5	750	149.117	0.017	0.3	0.0206	0.0000	OK
1440 minute summer	F1	720	147.265	0.019	0.5	0.0000	0.0000	OK
1440 minute summer	S1A	720	147.291	0.040	0.5	0.0449	0.0000	OK
1440 minute summer	Swale Inlet	750	149.037	0.027	1.1	0.0417	0.0000	OK
1440 minute summer	Swale Outlet	750	148.441	0.081	1.9	0.1206	0.0000	OK
1440 minute summer	S1B	720	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	RE1	2.000	PIC1	0.2	0.492	0.026	0.0060	
1440 minute summer	RE3	4.000	PIC3	0.2	0.482	0.031	0.0072	
1440 minute summer	RE4	5.000	PIC4	0.2	0.448	0.026	0.0047	
1440 minute summer	RE5	1.000	PIC5	0.2	0.423	0.026	0.0071	
1440 minute summer	RE6	3.000	S5	0.3	0.583	0.029	0.0079	
1440 minute summer	RE9	6.000	S3	0.1	0.537	0.007	0.0028	
1440 minute summer	S1	Hydro-Brake®	S1B	0.5				
1440 minute summer	S3	2.004	S1	2.6	0.136	0.048	0.3536	
1440 minute summer	S4	2.003	S3	-1.4	-0.004	0.000	72.1538	
1440 minute summer	S5	2.002	S4	0.6	1.085	0.004	0.4221	
1440 minute summer	PIC1	2.001	S5	0.3	0.741	0.020	0.0030	
1440 minute summer	PIC3	4.001	S4	0.3	0.944	0.014	0.0019	
1440 minute summer	PIC4	5.001	S4	0.3	0.564	0.030	0.0075	
1440 minute summer	PIC5	1.001	Swale Inlet	0.3	0.240	0.060	0.0166	
1440 minute summer	S1A	1.006	F1	0.5	0.192	0.169	0.0072	87.3
1440 minute summer	Swale Inlet	1.002	Swale Outlet	1.1	0.101	0.002	0.9116	
1440 minute summer	Swale Outlet	1.003	S1	1.9	0.207	0.100	0.2823	
1440 minute summer	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 2 year 1440 minute winter. 3450 minute analysis at 30 minute timestep. Mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	RE1	690	149.962	0.012	0.2	0.0215	0.0000	OK
1440 minute winter	RE3	720	149.763	0.013	0.2	0.0239	0.0000	OK
1440 minute winter	RE4	720	149.412	0.011	0.2	0.0206	0.0000	OK
1440 minute winter	RE5	510	149.408	0.008	0.1	0.0134	0.0000	OK
1440 minute winter	RE6	660	149.760	0.010	0.2	0.0188	0.0000	OK
1440 minute winter	RE9	30	149.000	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S1	1380	147.639	0.374	1.8	0.6229	0.0000	SURCHARGED
1440 minute winter	S3	1380	147.639	0.322	2.4	0.4194	0.0000	SURCHARGED
1440 minute winter	S4	1380	147.639	0.252	1.7	0.0000	0.0000	OK
1440 minute winter	S5	690	149.184	0.009	0.4	0.0099	0.0000	OK
1440 minute winter	PIC1	690	149.738	0.008	0.2	0.0104	0.0000	OK
1440 minute winter	PIC3	720	149.577	0.007	0.2	0.0089	0.0000	OK
1440 minute winter	PIC4	720	149.255	0.010	0.2	0.0122	0.0000	OK
1440 minute winter	PIC5	510	149.110	0.010	0.1	0.0122	0.0000	OK
1440 minute winter	F1	690	147.265	0.019	0.5	0.0000	0.0000	OK
1440 minute winter	S1A	690	147.291	0.040	0.5	0.0449	0.0000	OK
1440 minute winter	Swale Inlet	750	149.031	0.021	0.7	0.0319	0.0000	OK
1440 minute winter	Swale Outlet	780	148.428	0.068	1.3	0.1019	0.0000	OK
1440 minute winter	S1B	690	147.295	0.038	0.5	0.0430	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	RE1	2.000	PIC1	0.2	0.492	0.026	0.0055	
1440 minute winter	RE3	4.000	PIC3	0.2	0.482	0.031	0.0068	
1440 minute winter	RE4	5.000	PIC4	0.2	0.448	0.026	0.0042	
1440 minute winter	RE5	1.000	PIC5	0.1	0.343	0.013	0.0044	
1440 minute winter	RE6	3.000	S5	0.2	0.517	0.019	0.0059	
1440 minute winter	RE9	6.000	S3	0.0	0.000	0.000	0.0000	
1440 minute winter	S1	Hydro-Brake®	S1B	0.5				
1440 minute winter	S3	2.004	S1	1.5	0.052	0.026	0.3536	
1440 minute winter	S4	2.003	S3	-1.0	-0.007	0.000	84.3749	
1440 minute winter	S5	2.002	S4	0.4	1.085	0.003	0.4375	
1440 minute winter	PIC1	2.001	S5	0.2	0.656	0.014	0.0022	
1440 minute winter	PIC3	4.001	S4	0.2	0.831	0.010	0.0015	
1440 minute winter	PIC4	5.001	S4	0.2	0.500	0.020	0.0056	
1440 minute winter	PIC5	1.001	Swale Inlet	0.1	0.183	0.020	0.0101	
1440 minute winter	S1A	1.006	F1	0.5	0.192	0.169	0.0072	85.2
1440 minute winter	Swale Inlet	1.002	Swale Outlet	0.7	0.081	0.001	0.7171	
1440 minute winter	Swale Outlet	1.003	S1	1.3	0.181	0.069	0.2216	
1440 minute winter	S1B	1.005	S1A	0.5	0.102	0.054	0.0137	

Results for 30 year +40% CC 15 minute summer. 2015 minute analysis at 1 minute timestep. Mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RE1	10	150.260	0.310	13.1	0.5670	0.0000	FLOOD RISK
15 minute summer	RE3	10	150.097	0.347	12.4	0.6240	0.0000	FLOOD RISK
15 minute summer	RE4	10	149.709	0.309	12.4	0.5559	0.0000	FLOOD RISK
15 minute summer	RE5	11	149.679	0.279	9.9	0.4649	0.0000	SURCHARGED
15 minute summer	RE6	10	150.031	0.281	14.9	0.5431	0.0000	SURCHARGED
15 minute summer	RE9	9	149.034	0.034	3.7	0.0450	0.0000	OK
15 minute summer	S1	20	147.689	0.424	51.2	0.7057	0.0000	SURCHARGED
15 minute summer	S3	38	147.671	0.354	133.2	0.4612	0.0000	SURCHARGED
15 minute summer	S4	39	147.671	0.284	157.1	0.0000	0.0000	OK
15 minute summer	S5	8	149.240	0.064	24.3	0.0729	0.0000	OK
15 minute summer	PIC1	10	149.812	0.082	12.8	0.1025	0.0000	OK
15 minute summer	PIC3	10	149.626	0.056	11.7	0.0712	0.0000	OK
15 minute summer	PIC4	11	149.456	0.211	11.7	0.2586	0.0000	SURCHARGED
15 minute summer	PIC5	11	149.468	0.368	10.0	0.4576	0.0000	SURCHARGED
15 minute summer	F1	2015	147.265	0.019	0.5	0.0000	0.0000	OK
15 minute summer	S1A	2015	147.291	0.040	0.5	0.0448	0.0000	OK
15 minute summer	Swale Inlet	12	149.171	0.160	29.6	0.2497	0.0000	OK
15 minute summer	Swale Outlet	16	148.757	0.397	50.1	0.5912	0.0000	SURCHARGED
15 minute summer	S1B	2015	147.295	0.038	0.5	0.0429	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	RE1	2.000	PIC1	10.1	1.310	1.301	0.0981	
15 minute summer	RE3	4.000	PIC3	9.0	1.290	1.390	0.0978	
15 minute summer	RE4	5.000	PIC4	9.0	1.153	1.162	0.0739	
15 minute summer	RE5	1.000	PIC5	7.3	0.977	0.937	0.1178	
15 minute summer	RE6	3.000	S5	11.6	1.484	1.114	0.1197	
15 minute summer	RE9	6.000	S3	3.6	1.553	0.239	0.0352	
15 minute summer	S1	Hydro-Brake®	S1B	0.5				
15 minute summer	S3	2.004	S1	-50.4	-1.315	-0.913	0.3536	
15 minute summer	S4	2.003	S3	-110.5	-0.215	-0.020	90.9350	
15 minute summer	S5	2.002	S4	24.3	3.769	0.162	0.4569	
15 minute summer	PIC1	2.001	S5	12.7	1.973	0.862	0.0472	
15 minute summer	PIC3	4.001	S4	11.6	2.637	0.560	0.0267	
15 minute summer	PIC4	5.001	S4	10.9	1.450	1.098	0.1092	
15 minute summer	PIC5	1.001	Swale Inlet	8.6	1.098	1.723	0.1025	
15 minute summer	S1A	1.006	F1	0.5	0.192	0.168	0.0071	51.8
15 minute summer	Swale Inlet	1.002	Swale Outlet	28.8	0.381	0.054	10.1313	
15 minute summer	Swale Outlet	1.003	S1	39.4	0.648	2.077	1.5590	
15 minute summer	S1B	1.005	S1A	0.5	0.175	0.056	0.0136	

Results for 30 year +40% CC 15 minute winter. 2015 minute analysis at 1 minute timestep. Mass balance: 99.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	RE1	10	150.250	0.300	12.2	0.5486	0.0000	SURCHARGED
15 minute winter	RE3	11	150.097	0.347	11.6	0.6242	0.0000	FLOOD RISK
15 minute winter	RE4	11	149.704	0.304	11.6	0.5466	0.0000	FLOOD RISK
15 minute winter	RE5	11	149.696	0.296	9.3	0.4925	0.0000	SURCHARGED
15 minute winter	RE6	10	150.010	0.260	13.9	0.5015	0.0000	SURCHARGED
15 minute winter	RE9	9	149.033	0.033	3.5	0.0440	0.0000	OK
15 minute winter	S1	19	147.730	0.465	53.7	0.7748	0.0000	SURCHARGED
15 minute winter	S3	51	147.708	0.391	138.4	0.5094	0.0000	SURCHARGED
15 minute winter	S4	52	147.708	0.321	130.2	0.0000	0.0000	OK
15 minute winter	S5	8	149.239	0.064	23.9	0.0720	0.0000	OK
15 minute winter	PIC1	10	149.810	0.080	12.5	0.1001	0.0000	OK
15 minute winter	PIC3	10	149.626	0.056	11.5	0.0705	0.0000	OK
15 minute winter	PIC4	11	149.457	0.212	11.5	0.2598	0.0000	SURCHARGED
15 minute winter	PIC5	11	149.478	0.378	9.3	0.4691	0.0000	SURCHARGED
15 minute winter	F1	2014	147.265	0.019	0.5	0.0000	0.0000	OK
15 minute winter	S1A	2014	147.290	0.039	0.5	0.0444	0.0000	OK
15 minute winter	Swale Inlet	13	149.178	0.168	32.2	0.2616	0.0000	OK
15 minute winter	Swale Outlet	17	148.797	0.437	55.5	0.6502	0.0000	SURCHARGED
15 minute winter	S1B	2014	147.295	0.038	0.5	0.0426	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	RE1	2.000	PIC1	9.9	1.292	1.277	0.0971	
15 minute winter	RE3	4.000	PIC3	9.0	1.301	1.390	0.0974	
15 minute winter	RE4	5.000	PIC4	8.9	1.138	1.147	0.0739	
15 minute winter	RE5	1.000	PIC5	6.7	1.007	0.860	0.1178	
15 minute winter	RE6	3.000	S5	11.4	1.459	1.095	0.1197	
15 minute winter	RE9	6.000	S3	3.4	1.535	0.228	0.0341	
15 minute winter	S1	Hydro-Brake®	S1B	0.5				
15 minute winter	S3	2.004	S1	-53.0	-1.369	-0.962	0.3536	
15 minute winter	S4	2.003	S3	-103.1	-0.195	-0.019	102.0634	
15 minute winter	S5	2.002	S4	23.8	3.586	0.159	0.4783	
15 minute winter	PIC1	2.001	S5	12.4	1.970	0.843	0.0462	
15 minute winter	PIC3	4.001	S4	11.5	2.629	0.552	0.0264	
15 minute winter	PIC4	5.001	S4	10.9	1.391	1.098	0.1098	
15 minute winter	PIC5	1.001	Swale Inlet	8.6	1.103	1.731	0.1025	
15 minute winter	S1A	1.006	F1	0.5	0.191	0.165	0.0071	50.9
15 minute winter	Swale Inlet	1.002	Swale Outlet	31.6	0.381	0.059	11.7596	
15 minute winter	Swale Outlet	1.003	S1	42.2	0.686	2.222	1.5835	
15 minute winter	S1B	1.005	S1A	0.5	0.175	0.057	0.0135	

Results for 30 year +40% CC 30 minute summer. 2030 minute analysis at 1 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	RE1	18	150.160	0.210	10.1	0.3846	0.0000	SURCHARGED
30 minute summer	RE3	18	150.013	0.263	9.7	0.4725	0.0000	SURCHARGED
30 minute summer	RE4	18	149.590	0.190	9.7	0.3423	0.0000	SURCHARGED
30 minute summer	RE5	18	149.593	0.193	7.7	0.3207	0.0000	SURCHARGED
30 minute summer	RE6	18	149.896	0.146	11.6	0.2810	0.0000	SURCHARGED
30 minute summer	RE9	17	149.030	0.030	2.9	0.0402	0.0000	OK
30 minute summer	S1	27	147.760	0.495	52.6	0.8249	0.0000	SURCHARGED
30 minute summer	S3	53	147.759	0.442	118.0	0.5748	0.0000	SURCHARGED
30 minute summer	S4	52	147.759	0.372	92.4	0.0000	0.0000	OK
30 minute summer	S5	18	149.232	0.057	21.2	0.0645	0.0000	OK
30 minute summer	PIC1	18	149.801	0.071	11.0	0.0886	0.0000	OK
30 minute summer	PIC3	18	149.622	0.052	10.2	0.0651	0.0000	OK
30 minute summer	PIC4	18	149.377	0.132	10.9	0.1612	0.0000	SURCHARGED
30 minute summer	PIC5	18	149.412	0.312	8.5	0.3872	0.0000	SURCHARGED
30 minute summer	F1	13	147.265	0.019	0.5	0.0000	0.0000	OK
30 minute summer	S1A	13	147.291	0.040	0.5	0.0447	0.0000	OK
30 minute summer	Swale Inlet	20	149.170	0.160	29.2	0.2487	0.0000	OK
30 minute summer	Swale Outlet	24	148.769	0.409	50.3	0.6089	0.0000	SURCHARGED
30 minute summer	S1B	12	147.295	0.038	0.5	0.0429	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	RE1	2.000	PIC1	8.8	1.182	1.132	0.0919	
30 minute summer	RE3	4.000	PIC3	8.1	1.190	1.250	0.0940	
30 minute summer	RE4	5.000	PIC4	8.5	1.082	1.090	0.0739	
30 minute summer	RE5	1.000	PIC5	6.1	0.983	0.785	0.1178	
30 minute summer	RE6	3.000	S5	10.5	1.432	1.011	0.1186	
30 minute summer	RE9	6.000	S3	2.9	1.467	0.193	0.0302	
30 minute summer	S1	Hydro-Brake®	S1B	0.5				
30 minute summer	S3	2.004	S1	-52.0	-1.345	-0.943	0.3536	
30 minute summer	S4	2.003	S3	-52.9	-0.141	-0.010	118.3735	
30 minute summer	S5	2.002	S4	21.2	2.949	0.142	0.4833	
30 minute summer	PIC1	2.001	S5	10.9	1.939	0.737	0.0411	
30 minute summer	PIC3	4.001	S4	10.1	2.554	0.486	0.0239	
30 minute summer	PIC4	5.001	S4	10.0	1.386	1.005	0.1090	
30 minute summer	PIC5	1.001	Swale Inlet	7.8	0.998	1.565	0.1025	
30 minute summer	S1A	1.006	F1	0.5	0.192	0.168	0.0071	51.3
30 minute summer	Swale Inlet	1.002	Swale Outlet	28.6	0.314	0.053	10.5156	
30 minute summer	Swale Outlet	1.003	S1	40.2	0.660	2.121	1.5664	
30 minute summer	S1B	1.005	S1A	0.5	0.166	0.056	0.0136	

Results for 30 year +40% CC 30 minute winter. 2030 minute analysis at 1 minute timestep. Mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	RE1	18	150.091	0.141	8.5	0.2590	0.0000	SURCHARGED
30 minute winter	RE3	18	149.947	0.197	8.1	0.3533	0.0000	SURCHARGED
30 minute winter	RE4	18	149.508	0.108	8.1	0.1949	0.0000	SURCHARGED
30 minute winter	RE5	19	149.534	0.134	6.5	0.2232	0.0000	SURCHARGED
30 minute winter	RE6	17	149.832	0.082	9.7	0.1583	0.0000	OK
30 minute winter	RE9	17	149.027	0.027	2.4	0.0364	0.0000	OK
30 minute winter	S1	30	147.819	0.554	54.7	0.9226	0.0000	SURCHARGED
30 minute winter	S3	56	147.809	0.492	106.6	0.6403	0.0000	SURCHARGED
30 minute winter	S4	57	147.809	0.422	97.3	0.0000	0.0000	OK
30 minute winter	S5	17	149.229	0.054	19.3	0.0615	0.0000	OK
30 minute winter	PIC1	18	149.795	0.065	9.8	0.0818	0.0000	OK
30 minute winter	PIC3	18	149.619	0.049	9.2	0.0615	0.0000	OK
30 minute winter	PIC4	18	149.327	0.082	9.7	0.1004	0.0000	OK
30 minute winter	PIC5	19	149.385	0.285	7.8	0.3535	0.0000	SURCHARGED
30 minute winter	F1	31	147.265	0.019	0.5	0.0000	0.0000	OK
30 minute winter	S1A	31	147.291	0.040	0.5	0.0453	0.0000	OK
30 minute winter	Swale Inlet	21	149.172	0.162	29.9	0.2523	0.0000	OK
30 minute winter	Swale Outlet	24	148.790	0.430	52.0	0.6405	0.0000	SURCHARGED
30 minute winter	S1B	30	147.296	0.038	0.5	0.0435	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	RE1	2.000	PIC1	7.9	1.182	1.014	0.0885	
30 minute winter	RE3	4.000	PIC3	7.3	1.121	1.133	0.0917	
30 minute winter	RE4	5.000	PIC4	7.7	1.077	0.995	0.0694	
30 minute winter	RE5	1.000	PIC5	5.8	0.983	0.746	0.1178	
30 minute winter	RE6	3.000	S5	9.7	1.455	0.928	0.1016	
30 minute winter	RE9	6.000	S3	2.4	1.391	0.160	0.0263	
30 minute winter	S1	Hydro-Brake®	S1B	0.5				
30 minute winter	S3	2.004	S1	-53.5	-1.357	-0.970	0.3536	
30 minute winter	S4	2.003	S3	-64.7	-0.136	-0.012	132.7722	
30 minute winter	S5	2.002	S4	19.3	2.999	0.129	0.5040	
30 minute winter	PIC1	2.001	S5	9.8	1.903	0.663	0.0377	
30 minute winter	PIC3	4.001	S4	9.2	2.497	0.443	0.0223	
30 minute winter	PIC4	5.001	S4	9.7	1.408	0.977	0.1022	
30 minute winter	PIC5	1.001	Swale Inlet	7.3	0.929	1.457	0.1025	
30 minute winter	S1A	1.006	F1	0.5	0.194	0.173	0.0073	53.1
30 minute winter	Swale Inlet	1.002	Swale Outlet	29.4	0.301	0.055	11.4218	
30 minute winter	Swale Outlet	1.003	S1	41.7	0.680	2.198	1.5795	
30 minute winter	S1B	1.005	S1A	0.5	0.169	0.055	0.0139	

Results for 30 year +40% CC 60 minute summer. 2060 minute analysis at 1 minute timestep. Mass balance: 99.75%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	RE1	32	150.032	0.082	7.1	0.1506	0.0000	OK
60 minute summer	RE3	33	149.856	0.106	6.7	0.1905	0.0000	SURCHARGED
60 minute summer	RE4	32	149.478	0.078	6.7	0.1398	0.0000	OK
60 minute summer	RE5	32	149.461	0.061	5.4	0.1017	0.0000	OK
60 minute summer	RE6	32	149.820	0.070	8.1	0.1348	0.0000	OK
60 minute summer	RE9	32	149.025	0.025	2.0	0.0332	0.0000	OK
60 minute summer	S1	88	147.855	0.590	47.8	0.9822	0.0000	SURCHARGED
60 minute summer	S3	88	147.855	0.538	90.8	0.7001	0.0000	SURCHARGED
60 minute summer	S4	87	147.855	0.468	69.3	0.0000	0.0000	OK
60 minute summer	S5	32	149.226	0.051	16.9	0.0575	0.0000	OK
60 minute summer	PIC1	32	149.790	0.060	8.8	0.0756	0.0000	OK
60 minute summer	PIC3	32	149.615	0.045	8.0	0.0568	0.0000	OK
60 minute summer	PIC4	32	149.318	0.073	8.4	0.0889	0.0000	OK
60 minute summer	PIC5	33	149.328	0.228	7.1	0.2826	0.0000	SURCHARGED
60 minute summer	F1	85	147.266	0.020	0.5	0.0000	0.0000	OK
60 minute summer	S1A	85	147.292	0.041	0.5	0.0459	0.0000	OK
60 minute summer	Swale Inlet	35	149.158	0.148	24.9	0.2297	0.0000	OK
60 minute summer	Swale Outlet	39	148.725	0.365	43.1	0.5428	0.0000	SURCHARGED
60 minute summer	S1B	90	147.296	0.039	0.5	0.0441	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	RE1	2.000	PIC1	7.1	1.186	0.911	0.0791	
60 minute summer	RE3	4.000	PIC3	6.4	1.122	0.985	0.0888	
60 minute summer	RE4	5.000	PIC4	6.7	1.060	0.862	0.0596	
60 minute summer	RE5	1.000	PIC5	5.4	0.975	0.691	0.0966	
60 minute summer	RE6	3.000	S5	8.1	1.425	0.776	0.0868	
60 minute summer	RE9	6.000	S3	2.0	1.320	0.133	0.0231	
60 minute summer	S1	Hydro-Brake®	S1B	0.5				
60 minute summer	S3	2.004	S1	-47.0	-1.182	-0.853	0.3536	
60 minute summer	S4	2.003	S3	-37.4	-0.068	-0.007	147.2662	
60 minute summer	S5	2.002	S4	16.8	2.230	0.113	0.4958	
60 minute summer	PIC1	2.001	S5	8.8	1.862	0.593	0.0345	
60 minute summer	PIC3	4.001	S4	8.1	2.418	0.388	0.0201	
60 minute summer	PIC4	5.001	S4	8.4	1.393	0.843	0.0846	
60 minute summer	PIC5	1.001	Swale Inlet	6.6	0.837	1.313	0.1025	
60 minute summer	S1A	1.006	F1	0.5	0.196	0.179	0.0074	56.3
60 minute summer	Swale Inlet	1.002	Swale Outlet	24.3	0.280	0.045	8.8537	
60 minute summer	Swale Outlet	1.003	S1	37.1	0.616	1.957	1.5385	
60 minute summer	S1B	1.005	S1A	0.5	0.169	0.057	0.0142	

Results for 30 year +40% CC 60 minute winter. 2060 minute analysis at 1 minute timestep. Mass balance: 99.70%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	RE1	32	150.017	0.067	5.5	0.1224	0.0000	OK
60 minute winter	RE3	32	149.825	0.075	5.2	0.1353	0.0000	OK
60 minute winter	RE4	32	149.464	0.064	5.2	0.1146	0.0000	OK
60 minute winter	RE5	32	149.452	0.052	4.2	0.0869	0.0000	OK
60 minute winter	RE6	32	149.808	0.058	6.2	0.1118	0.0000	OK
60 minute winter	RE9	32	149.022	0.022	1.6	0.0297	0.0000	OK
60 minute winter	S1	84	147.916	0.651	47.2	1.0844	0.0000	SURCHARGED
60 minute winter	S3	84	147.916	0.599	79.6	0.7799	0.0000	SURCHARGED
60 minute winter	S4	80	147.916	0.529	63.3	0.0000	0.0000	OK
60 minute winter	S5	32	149.220	0.045	13.0	0.0505	0.0000	OK
60 minute winter	PIC1	32	149.781	0.051	6.8	0.0640	0.0000	OK
60 minute winter	PIC3	32	149.610	0.040	6.5	0.0502	0.0000	OK
60 minute winter	PIC4	32	149.306	0.061	6.5	0.0740	0.0000	OK
60 minute winter	PIC5	33	149.263	0.163	5.5	0.2026	0.0000	SURCHARGED
60 minute winter	F1	88	147.266	0.020	0.5	0.0000	0.0000	OK
60 minute winter	S1A	88	147.292	0.041	0.5	0.0468	0.0000	OK
60 minute winter	Swale Inlet	36	149.150	0.140	22.1	0.2176	0.0000	OK
60 minute winter	Swale Outlet	39	148.705	0.344	38.7	0.5129	0.0000	SURCHARGED
60 minute winter	S1B	86	147.297	0.040	0.5	0.0450	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	RE1	2.000	PIC1	5.5	1.145	0.708	0.0641	
60 minute winter	RE3	4.000	PIC3	5.2	1.115	0.806	0.0729	
60 minute winter	RE4	5.000	PIC4	5.2	1.017	0.670	0.0482	
60 minute winter	RE5	1.000	PIC5	4.2	0.954	0.538	0.0900	
60 minute winter	RE6	3.000	S5	6.2	1.352	0.595	0.0702	
60 minute winter	RE9	6.000	S3	1.6	1.239	0.107	0.0197	
60 minute winter	S1	Hydro-Brake®	S1B	0.5				
60 minute winter	S3	2.004	S1	-46.4	-1.166	-0.841	0.3536	
60 minute winter	S4	2.003	S3	-40.9	-0.077	-0.008	165.1798	
60 minute winter	S5	2.002	S4	13.0	2.300	0.087	0.4931	
60 minute winter	PIC1	2.001	S5	6.8	1.761	0.460	0.0283	
60 minute winter	PIC3	4.001	S4	6.5	2.287	0.312	0.0172	
60 minute winter	PIC4	5.001	S4	6.5	1.329	0.656	0.0689	
60 minute winter	PIC5	1.001	Swale Inlet	5.3	0.683	1.071	0.1025	
60 minute winter	S1A	1.006	F1	0.5	0.199	0.187	0.0076	59.0
60 minute winter	Swale Inlet	1.002	Swale Outlet	21.8	0.257	0.041	8.1233	
60 minute winter	Swale Outlet	1.003	S1	35.7	0.596	1.880	1.5256	
60 minute winter	S1B	1.005	S1A	0.5	0.166	0.059	0.0146	

Results for 30 year +40% CC 120 minute summer. 2120 minute analysis at 2 minute timestep. Mass balance: 99.69%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	RE1	62	150.010	0.060	4.7	0.1094	0.0000	OK
120 minute summer	RE3	62	149.816	0.066	4.4	0.1192	0.0000	OK
120 minute summer	RE4	62	149.457	0.057	4.4	0.1020	0.0000	OK
120 minute summer	RE5	62	149.449	0.049	3.6	0.0812	0.0000	OK
120 minute summer	RE6	62	149.802	0.052	5.3	0.1007	0.0000	OK
120 minute summer	RE9	62	149.020	0.020	1.3	0.0266	0.0000	OK
120 minute summer	S1	142	147.981	0.716	39.7	1.1924	0.0000	SURCHARGED
120 minute summer	S3	142	147.981	0.664	67.0	0.8645	0.0000	SURCHARGED
120 minute summer	S4	146	147.981	0.594	48.6	0.0000	0.0000	OK
120 minute summer	S5	62	149.216	0.041	11.0	0.0464	0.0000	OK
120 minute summer	PIC1	62	149.776	0.046	5.7	0.0576	0.0000	OK
120 minute summer	PIC3	62	149.606	0.036	5.5	0.0455	0.0000	OK
120 minute summer	PIC4	62	149.299	0.054	5.5	0.0660	0.0000	OK
120 minute summer	PIC5	64	149.214	0.114	4.6	0.1414	0.0000	SURCHARGED
120 minute summer	F1	144	147.267	0.020	0.5	0.0000	0.0000	OK
120 minute summer	S1A	144	147.293	0.042	0.5	0.0476	0.0000	OK
120 minute summer	Swale Inlet	66	149.137	0.127	18.4	0.1980	0.0000	OK
120 minute summer	Swale Outlet	68	148.664	0.304	32.1	0.4520	0.0000	SURCHARGED
120 minute summer	S1B	144	147.298	0.041	0.5	0.0460	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	RE1	2.000	PIC1	4.6	1.107	0.598	0.0561	
120 minute summer	RE3	4.000	PIC3	4.4	1.081	0.676	0.0636	
120 minute summer	RE4	5.000	PIC4	4.4	0.983	0.563	0.0420	
120 minute summer	RE5	1.000	PIC5	3.5	0.952	0.453	0.0660	
120 minute summer	RE6	3.000	S5	5.2	1.301	0.503	0.0617	
120 minute summer	RE9	6.000	S3	1.3	1.162	0.086	0.0169	
120 minute summer	S1	Hydro-Brake®	S1B	0.5				
120 minute summer	S3	2.004	S1	-38.8	-0.976	-0.704	0.3536	
120 minute summer	S4	2.003	S3	-27.2	-0.042	-0.005	184.6266	
120 minute summer	S5	2.002	S4	10.9	1.962	0.073	0.4881	
120 minute summer	PIC1	2.001	S5	5.7	1.690	0.386	0.0247	
120 minute summer	PIC3	4.001	S4	5.4	2.182	0.261	0.0151	
120 minute summer	PIC4	5.001	S4	5.4	1.275	0.547	0.0599	
120 minute summer	PIC5	1.001	Swale Inlet	4.4	0.559	0.877	0.1025	
120 minute summer	S1A	1.006	F1	0.5	0.202	0.195	0.0078	63.5
120 minute summer	Swale Inlet	1.002	Swale Outlet	18.1	0.246	0.034	6.6917	
120 minute summer	Swale Outlet	1.003	S1	30.4	0.552	1.601	1.4739	
120 minute summer	S1B	1.005	S1A	0.5	0.154	0.062	0.0150	

Results for 30 year +40% CC 120 minute winter. 2120 minute analysis at 2 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	RE1	62	150.000	0.050	3.5	0.0915	0.0000	OK
120 minute winter	RE3	64	149.806	0.056	3.3	0.0999	0.0000	OK
120 minute winter	RE4	62	149.448	0.048	3.3	0.0857	0.0000	OK
120 minute winter	RE5	64	149.441	0.041	2.6	0.0679	0.0000	OK
120 minute winter	RE6	62	149.794	0.044	4.0	0.0854	0.0000	OK
120 minute winter	RE9	64	149.018	0.018	1.0	0.0235	0.0000	OK
120 minute winter	S1	136	148.059	0.794	34.0	1.3225	0.0000	SURCHARGED
120 minute winter	S3	142	148.059	0.742	55.6	0.9663	0.0000	SURCHARGED
120 minute winter	S4	144	148.059	0.672	36.7	0.0000	0.0000	OK
120 minute winter	S5	62	149.211	0.036	8.3	0.0405	0.0000	OK
120 minute winter	PIC1	62	149.769	0.039	4.3	0.0486	0.0000	OK
120 minute winter	PIC3	64	149.601	0.031	4.1	0.0391	0.0000	OK
120 minute winter	PIC4	64	149.291	0.046	4.1	0.0558	0.0000	OK
120 minute winter	PIC5	64	149.160	0.060	3.4	0.0749	0.0000	OK
120 minute winter	F1	144	147.267	0.021	0.6	0.0000	0.0000	OK
120 minute winter	S1A	144	147.294	0.043	0.6	0.0486	0.0000	OK
120 minute winter	Swale Inlet	66	149.124	0.114	14.7	0.1774	0.0000	OK
120 minute winter	Swale Outlet	68	148.633	0.273	25.9	0.4069	0.0000	OK
120 minute winter	S1B	142	147.299	0.042	0.6	0.0469	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	RE1	2.000	PIC1	3.5	1.038	0.448	0.0449	
120 minute winter	RE3	4.000	PIC3	3.3	1.018	0.512	0.0516	
120 minute winter	RE4	5.000	PIC4	3.3	0.922	0.425	0.0338	
120 minute winter	RE5	1.000	PIC5	2.6	0.882	0.333	0.0444	
120 minute winter	RE6	3.000	S5	4.0	1.216	0.382	0.0501	
120 minute winter	RE9	6.000	S3	1.0	1.079	0.067	0.0141	
120 minute winter	S1	Hydro-Brake®	S1B	0.6				
120 minute winter	S3	2.004	S1	-33.1	-0.833	-0.601	0.3536	
120 minute winter	S4	2.003	S3	-22.1	-0.047	-0.004	207.5514	
120 minute winter	S5	2.002	S4	8.2	1.946	0.055	0.4784	
120 minute winter	PIC1	2.001	S5	4.3	1.573	0.289	0.0199	
120 minute winter	PIC3	4.001	S4	4.1	2.022	0.197	0.0123	
120 minute winter	PIC4	5.001	S4	4.1	1.191	0.414	0.0485	
120 minute winter	PIC5	1.001	Swale Inlet	3.4	0.479	0.682	0.0836	
120 minute winter	S1A	1.006	F1	0.6	0.206	0.204	0.0081	66.6
120 minute winter	Swale Inlet	1.002	Swale Outlet	14.6	0.227	0.027	5.6550	
120 minute winter	Swale Outlet	1.003	S1	25.4	0.516	1.337	1.3772	
120 minute winter	S1B	1.005	S1A	0.6	0.154	0.065	0.0154	

Results for 30 year +40% CC 180 minute summer. 2180 minute analysis at 4 minute timestep. Mass balance: 99.67%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	RE1	92	150.001	0.051	3.6	0.0926	0.0000	OK
180 minute summer	RE3	92	149.806	0.056	3.4	0.1007	0.0000	OK
180 minute summer	RE4	92	149.448	0.048	3.4	0.0867	0.0000	OK
180 minute summer	RE5	92	149.441	0.041	2.7	0.0689	0.0000	OK
180 minute summer	RE6	92	149.795	0.045	4.1	0.0862	0.0000	OK
180 minute summer	RE9	92	149.018	0.018	1.0	0.0234	0.0000	OK
180 minute summer	S1	200	148.053	0.787	31.4	1.3112	0.0000	SURCHARGED
180 minute summer	S3	200	148.052	0.735	52.7	0.9575	0.0000	SURCHARGED
180 minute summer	S4	204	148.052	0.665	37.6	0.0000	0.0000	OK
180 minute summer	S5	92	149.211	0.036	8.5	0.0409	0.0000	OK
180 minute summer	PIC1	92	149.770	0.040	4.5	0.0496	0.0000	OK
180 minute summer	PIC3	92	149.602	0.031	4.2	0.0397	0.0000	OK
180 minute summer	PIC4	92	149.291	0.046	4.3	0.0567	0.0000	OK
180 minute summer	PIC5	92	149.162	0.062	3.6	0.0767	0.0000	OK
180 minute summer	F1	204	147.267	0.021	0.6	0.0000	0.0000	OK
180 minute summer	S1A	204	147.294	0.043	0.6	0.0485	0.0000	OK
180 minute summer	Swale Inlet	96	149.121	0.111	14.0	0.1727	0.0000	OK
180 minute summer	Swale Outlet	100	148.623	0.263	24.7	0.3919	0.0000	OK
180 minute summer	S1B	200	147.298	0.041	0.6	0.0469	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	RE1	2.000	PIC1	3.6	1.039	0.458	0.0458	
180 minute summer	RE3	4.000	PIC3	3.3	1.017	0.519	0.0523	
180 minute summer	RE4	5.000	PIC4	3.4	0.923	0.433	0.0344	
180 minute summer	RE5	1.000	PIC5	2.7	0.887	0.341	0.0453	
180 minute summer	RE6	3.000	S5	4.0	1.220	0.388	0.0507	
180 minute summer	RE9	6.000	S3	1.0	1.076	0.066	0.0140	
180 minute summer	S1	Hydro-Brake®	S1B	0.6				
180 minute summer	S3	2.004	S1	-30.6	-0.770	-0.555	0.3536	
180 minute summer	S4	2.003	S3	-21.2	0.032	-0.004	205.6935	
180 minute summer	S5	2.002	S4	8.4	1.809	0.056	0.4791	
180 minute summer	PIC1	2.001	S5	4.4	1.586	0.299	0.0204	
180 minute summer	PIC3	4.001	S4	4.2	2.037	0.203	0.0125	
180 minute summer	PIC4	5.001	S4	4.2	1.198	0.424	0.0495	
180 minute summer	PIC5	1.001	Swale Inlet	3.5	0.499	0.706	0.0845	
180 minute summer	S1A	1.006	F1	0.6	0.206	0.203	0.0081	68.1
180 minute summer	Swale Inlet	1.002	Swale Outlet	13.9	0.231	0.026	5.3101	
180 minute summer	Swale Outlet	1.003	S1	23.7	0.503	1.251	1.3326	
180 minute summer	S1B	1.005	S1A	0.6	0.144	0.065	0.0154	

Results for 30 year +40% CC 180 minute winter. 2180 minute analysis at 4 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	RE1	92	149.992	0.042	2.6	0.0772	0.0000	OK
180 minute winter	RE3	92	149.797	0.047	2.5	0.0847	0.0000	OK
180 minute winter	RE4	92	149.441	0.041	2.5	0.0728	0.0000	OK
180 minute winter	RE5	92	149.435	0.035	2.0	0.0586	0.0000	OK
180 minute winter	RE6	92	149.788	0.038	3.0	0.0727	0.0000	OK
180 minute winter	RE9	92	149.015	0.015	0.7	0.0198	0.0000	OK
180 minute winter	S1	196	148.140	0.875	25.9	1.4563	0.0000	SURCHARGED
180 minute winter	S3	196	148.140	0.823	42.0	1.0710	0.0000	SURCHARGED
180 minute winter	S4	208	148.139	0.752	27.7	0.0000	0.0000	OK
180 minute winter	S5	92	149.206	0.031	6.2	0.0352	0.0000	OK
180 minute winter	PIC1	92	149.763	0.033	3.2	0.0413	0.0000	OK
180 minute winter	PIC3	92	149.597	0.027	3.1	0.0337	0.0000	OK
180 minute winter	PIC4	92	149.284	0.039	3.1	0.0476	0.0000	OK
180 minute winter	PIC5	92	149.151	0.051	2.6	0.0631	0.0000	OK
180 minute winter	F1	200	147.267	0.021	0.6	0.0000	0.0000	OK
180 minute winter	S1A	200	147.295	0.044	0.6	0.0495	0.0000	OK
180 minute winter	Swale Inlet	96	149.108	0.098	11.0	0.1528	0.0000	OK
180 minute winter	Swale Outlet	100	148.595	0.235	19.5	0.3505	0.0000	OK
180 minute winter	S1B	196	147.299	0.042	0.6	0.0479	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	RE1	2.000	PIC1	2.6	0.965	0.333	0.0360	
180 minute winter	RE3	4.000	PIC3	2.5	0.949	0.386	0.0419	
180 minute winter	RE4	5.000	PIC4	2.5	0.861	0.321	0.0273	
180 minute winter	RE5	1.000	PIC5	2.0	0.821	0.255	0.0365	
180 minute winter	RE6	3.000	S5	3.0	1.129	0.287	0.0405	
180 minute winter	RE9	6.000	S3	0.7	0.972	0.047	0.0408	
180 minute winter	S1	Hydro-Brake®	S1B	0.6				
180 minute winter	S3	2.004	S1	-25.1	-0.632	-0.456	0.3536	
180 minute winter	S4	2.003	S3	-18.0	0.036	-0.003	231.2795	
180 minute winter	S5	2.002	S4	6.2	1.742	0.041	0.4703	
180 minute winter	PIC1	2.001	S5	3.2	1.456	0.216	0.0160	
180 minute winter	PIC3	4.001	S4	3.1	1.869	0.148	0.0100	
180 minute winter	PIC4	5.001	S4	3.1	1.105	0.311	0.0393	
180 minute winter	PIC5	1.001	Swale Inlet	2.6	0.416	0.517	0.0770	
180 minute winter	S1A	1.006	F1	0.6	0.209	0.214	0.0083	71.5
180 minute winter	Swale Inlet	1.002	Swale Outlet	11.0	0.212	0.021	4.4660	
180 minute winter	Swale Outlet	1.003	S1	19.3	0.467	1.017	1.1914	
180 minute winter	S1B	1.005	S1A	0.6	0.111	0.068	0.0159	

Results for 30 year +40% CC 240 minute summer. 2240 minute analysis at 4 minute timestep. Mass balance: 99.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	RE1	124	149.994	0.044	2.8	0.0805	0.0000	OK
240 minute summer	RE3	124	149.799	0.049	2.7	0.0886	0.0000	OK
240 minute summer	RE4	124	149.442	0.042	2.7	0.0761	0.0000	OK
240 minute summer	RE5	124	149.436	0.036	2.1	0.0603	0.0000	OK
240 minute summer	RE6	124	149.789	0.039	3.2	0.0754	0.0000	OK
240 minute summer	RE9	124	149.016	0.016	0.8	0.0211	0.0000	OK
240 minute summer	S1	268	148.101	0.836	26.5	1.3926	0.0000	SURCHARGED
240 minute summer	S3	268	148.101	0.784	44.1	1.0213	0.0000	SURCHARGED
240 minute summer	S4	260	148.102	0.715	28.0	0.0000	0.0000	OK
240 minute summer	S5	124	149.207	0.032	6.7	0.0366	0.0000	OK
240 minute summer	PIC1	124	149.765	0.035	3.5	0.0435	0.0000	OK
240 minute summer	PIC3	124	149.598	0.028	3.4	0.0354	0.0000	OK
240 minute summer	PIC4	124	149.286	0.041	3.4	0.0502	0.0000	OK
240 minute summer	PIC5	124	149.153	0.053	2.8	0.0663	0.0000	OK
240 minute summer	F1	260	147.267	0.021	0.6	0.0000	0.0000	OK
240 minute summer	S1A	260	147.294	0.043	0.6	0.0491	0.0000	OK
240 minute summer	Swale Inlet	128	149.111	0.101	11.7	0.1566	0.0000	OK
240 minute summer	Swale Outlet	128	148.599	0.239	20.4	0.3565	0.0000	OK
240 minute summer	S1B	264	147.299	0.042	0.6	0.0475	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	RE1	2.000	PIC1	2.8	0.980	0.360	0.0383	
240 minute summer	RE3	4.000	PIC3	2.7	0.966	0.419	0.0446	
240 minute summer	RE4	5.000	PIC4	2.7	0.874	0.348	0.0292	
240 minute summer	RE5	1.000	PIC5	2.1	0.833	0.269	0.0379	
240 minute summer	RE6	3.000	S5	3.2	1.149	0.307	0.0426	
240 minute summer	RE9	6.000	S3	0.8	1.011	0.053	0.0126	
240 minute summer	S1	Hydro-Brake®	S1B	0.6				
240 minute summer	S3	2.004	S1	-25.7	-0.647	-0.467	0.3536	
240 minute summer	S4	2.003	S3	-15.9	0.030	-0.003	220.1839	
240 minute summer	S5	2.002	S4	6.7	1.686	0.045	0.4725	
240 minute summer	PIC1	2.001	S5	3.5	1.493	0.237	0.0172	
240 minute summer	PIC3	4.001	S4	3.4	1.921	0.164	0.0107	
240 minute summer	PIC4	5.001	S4	3.4	1.135	0.343	0.0422	
240 minute summer	PIC5	1.001	Swale Inlet	2.8	0.443	0.561	0.0791	
240 minute summer	S1A	1.006	F1	0.6	0.208	0.209	0.0082	71.9
240 minute summer	Swale Inlet	1.002	Swale Outlet	11.5	0.218	0.022	4.6052	
240 minute summer	Swale Outlet	1.003	S1	19.9	0.472	1.050	1.2129	
240 minute summer	S1B	1.005	S1A	0.6	0.134	0.066	0.0157	

Results for 30 year +40% CC 240 minute winter. 2240 minute analysis at 4 minute timestep. Mass balance: 99.61%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	RE1	124	149.988	0.038	2.1	0.0687	0.0000	OK
240 minute winter	RE3	124	149.792	0.042	2.0	0.0749	0.0000	OK
240 minute winter	RE4	124	149.436	0.036	2.0	0.0644	0.0000	OK
240 minute winter	RE5	124	149.431	0.031	1.6	0.0521	0.0000	OK
240 minute winter	RE6	124	149.783	0.033	2.4	0.0645	0.0000	OK
240 minute winter	RE9	120	149.014	0.014	0.6	0.0183	0.0000	OK
240 minute winter	S1	256	148.192	0.927	21.2	1.5430	0.0000	SURCHARGED
240 minute winter	S3	256	148.192	0.875	34.2	1.1388	0.0000	SURCHARGED
240 minute winter	S4	252	148.191	0.804	25.2	0.0000	0.0000	SURCHARGED
240 minute winter	S5	124	149.203	0.028	5.0	0.0318	0.0000	OK
240 minute winter	PIC1	124	149.760	0.030	2.6	0.0370	0.0000	OK
240 minute winter	PIC3	124	149.594	0.024	2.5	0.0302	0.0000	OK
240 minute winter	PIC4	124	149.280	0.035	2.5	0.0425	0.0000	OK
240 minute winter	PIC5	124	149.145	0.045	2.1	0.0560	0.0000	OK
240 minute winter	F1	256	147.268	0.022	0.6	0.0000	0.0000	OK
240 minute winter	S1A	256	147.295	0.044	0.6	0.0501	0.0000	OK
240 minute winter	Swale Inlet	128	149.098	0.088	9.0	0.1369	0.0000	OK
240 minute winter	Swale Outlet	128	148.572	0.212	15.8	0.3154	0.0000	OK
240 minute winter	S1B	256	147.300	0.043	0.6	0.0485	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	RE1	2.000	PIC1	2.1	0.913	0.270	0.0308	
240 minute winter	RE3	4.000	PIC3	2.0	0.896	0.310	0.0358	
240 minute winter	RE4	5.000	PIC4	2.0	0.811	0.258	0.0233	
240 minute winter	RE5	1.000	PIC5	1.6	0.774	0.205	0.0311	
240 minute winter	RE6	3.000	S5	2.4	1.064	0.230	0.0345	
240 minute winter	RE9	6.000	S3	0.6	0.928	0.040	0.0611	
240 minute winter	S1	Hydro-Brake®	S1B	0.6				
240 minute winter	S3	2.004	S1	-20.5	-0.516	-0.372	0.3536	
240 minute winter	S4	2.003	S3	-15.8	0.031	-0.003	246.6139	
240 minute winter	S5	2.002	S4	5.0	1.625	0.033	0.4654	
240 minute winter	PIC1	2.001	S5	2.6	1.380	0.176	0.0138	
240 minute winter	PIC3	4.001	S4	2.5	1.762	0.120	0.0086	
240 minute winter	PIC4	5.001	S4	2.5	1.044	0.252	0.0337	
240 minute winter	PIC5	1.001	Swale Inlet	2.1	0.382	0.421	0.0702	
240 minute winter	S1A	1.006	F1	0.6	0.211	0.219	0.0084	75.2
240 minute winter	Swale Inlet	1.002	Swale Outlet	8.9	0.201	0.017	3.7933	
240 minute winter	Swale Outlet	1.003	S1	15.7	0.434	0.828	1.0575	
240 minute winter	S1B	1.005	S1A	0.6	0.118	0.070	0.0162	

Results for 30 year +40% CC 360 minute summer. 2360 minute analysis at 8 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	RE1	184	149.987	0.037	2.1	0.0685	0.0000	OK
360 minute summer	RE3	184	149.792	0.041	2.0	0.0746	0.0000	OK
360 minute summer	RE4	184	149.436	0.036	2.0	0.0642	0.0000	OK
360 minute summer	RE5	184	149.431	0.031	1.6	0.0519	0.0000	OK
360 minute summer	RE6	184	149.783	0.033	2.4	0.0643	0.0000	OK
360 minute summer	RE9	184	149.014	0.014	0.6	0.0183	0.0000	OK
360 minute summer	S1	376	148.153	0.888	19.7	1.4778	0.0000	SURCHARGED
360 minute summer	S3	376	148.153	0.836	32.6	1.0879	0.0000	SURCHARGED
360 minute summer	S4	376	148.153	0.766	22.9	0.0000	0.0000	OK
360 minute summer	S5	184	149.203	0.028	5.0	0.0317	0.0000	OK
360 minute summer	PIC1	184	149.759	0.029	2.6	0.0368	0.0000	OK
360 minute summer	PIC3	184	149.594	0.024	2.5	0.0301	0.0000	OK
360 minute summer	PIC4	184	149.280	0.034	2.5	0.0422	0.0000	OK
360 minute summer	PIC5	184	149.145	0.045	2.1	0.0556	0.0000	OK
360 minute summer	F1	384	147.267	0.021	0.6	0.0000	0.0000	OK
360 minute summer	S1A	384	147.295	0.044	0.6	0.0497	0.0000	OK
360 minute summer	Swale Inlet	192	149.095	0.085	8.6	0.1322	0.0000	OK
360 minute summer	Swale Outlet	192	148.566	0.206	14.9	0.3066	0.0000	OK
360 minute summer	S1B	384	147.300	0.043	0.6	0.0481	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	RE1	2.000	PIC1	2.1	0.912	0.268	0.0307	
360 minute summer	RE3	4.000	PIC3	2.0	0.893	0.307	0.0355	
360 minute summer	RE4	5.000	PIC4	2.0	0.811	0.256	0.0231	
360 minute summer	RE5	1.000	PIC5	1.6	0.772	0.203	0.0309	
360 minute summer	RE6	3.000	S5	2.4	1.062	0.229	0.0344	
360 minute summer	RE9	6.000	S3	0.6	0.926	0.040	0.0498	
360 minute summer	S1	Hydro-Brake®	S1B	0.6				
360 minute summer	S3	2.004	S1	-19.1	-0.480	-0.346	0.3536	
360 minute summer	S4	2.003	S3	-13.6	0.023	-0.002	235.2840	
360 minute summer	S5	2.002	S4	4.9	1.461	0.033	0.4652	
360 minute summer	PIC1	2.001	S5	2.6	1.376	0.174	0.0137	
360 minute summer	PIC3	4.001	S4	2.5	1.756	0.119	0.0085	
360 minute summer	PIC4	5.001	S4	2.5	1.040	0.249	0.0334	
360 minute summer	PIC5	1.001	Swale Inlet	2.1	0.387	0.415	0.0685	
360 minute summer	S1A	1.006	F1	0.6	0.210	0.215	0.0083	77.3
360 minute summer	Swale Inlet	1.002	Swale Outlet	8.4	0.201	0.016	3.6244	
360 minute summer	Swale Outlet	1.003	S1	14.8	0.425	0.782	1.0230	
360 minute summer	S1B	1.005	S1A	0.6	0.112	0.068	0.0160	

Results for 30 year +40% CC 360 minute winter. 2360 minute analysis at 8 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	RE1	184	149.981	0.031	1.5	0.0573	0.0000	OK
360 minute winter	RE3	184	149.784	0.034	1.4	0.0618	0.0000	OK
360 minute winter	RE4	184	149.430	0.030	1.4	0.0531	0.0000	OK
360 minute winter	RE5	184	149.427	0.027	1.2	0.0447	0.0000	OK
360 minute winter	RE6	184	149.778	0.028	1.7	0.0538	0.0000	OK
360 minute winter	RE9	168	149.011	0.011	0.4	0.0151	0.0000	OK
360 minute winter	S1	376	148.262	0.997	15.5	1.6602	0.0000	SURCHARGED
360 minute winter	S3	376	148.262	0.945	24.9	1.2304	0.0000	SURCHARGED
360 minute winter	S4	376	148.262	0.874	18.9	0.0000	0.0000	SURCHARGED
360 minute winter	S5	184	149.199	0.024	3.6	0.0273	0.0000	OK
360 minute winter	PIC1	184	149.755	0.025	1.9	0.0314	0.0000	OK
360 minute winter	PIC3	184	149.590	0.020	1.8	0.0256	0.0000	OK
360 minute winter	PIC4	184	149.274	0.029	1.8	0.0357	0.0000	OK
360 minute winter	PIC5	184	149.139	0.039	1.6	0.0480	0.0000	OK
360 minute winter	F1	376	147.268	0.022	0.6	0.0000	0.0000	OK
360 minute winter	S1A	376	147.296	0.045	0.6	0.0508	0.0000	OK
360 minute winter	Swale Inlet	192	149.084	0.074	6.6	0.1155	0.0000	OK
360 minute winter	Swale Outlet	192	148.542	0.182	11.5	0.2709	0.0000	OK
360 minute winter	S1B	376	147.301	0.044	0.6	0.0493	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	RE1	2.000	PIC1	1.5	0.830	0.193	0.0242	
360 minute winter	RE3	4.000	PIC3	1.4	0.809	0.217	0.0278	
360 minute winter	RE4	5.000	PIC4	1.4	0.732	0.180	0.0181	
360 minute winter	RE5	1.000	PIC5	1.2	0.713	0.153	0.0252	
360 minute winter	RE6	3.000	S5	1.7	0.968	0.163	0.0269	
360 minute winter	RE9	6.000	S3	0.4	0.821	0.027	0.0611	
360 minute winter	S1	Hydro-Brake®	S1B	0.6				
360 minute winter	S3	2.004	S1	-14.8	-0.373	-0.269	0.3536	
360 minute winter	S4	2.003	S3	-11.7	0.025	-0.002	267.3201	
360 minute winter	S5	2.002	S4	3.6	1.485	0.024	0.4590	
360 minute winter	PIC1	2.001	S5	1.9	1.266	0.129	0.0110	
360 minute winter	PIC3	4.001	S4	1.8	1.605	0.087	0.0068	
360 minute winter	PIC4	5.001	S4	1.8	0.954	0.182	0.0266	
360 minute winter	PIC5	1.001	Swale Inlet	1.6	0.349	0.318	0.0591	
360 minute winter	S1A	1.006	F1	0.6	0.214	0.226	0.0086	81.3
360 minute winter	Swale Inlet	1.002	Swale Outlet	6.5	0.185	0.012	2.9941	
360 minute winter	Swale Outlet	1.003	S1	11.5	0.388	0.607	0.8777	
360 minute winter	S1B	1.005	S1A	0.6	0.116	0.072	0.0165	

Results for 30 year +40% CC 480 minute summer. 2480 minute analysis at 8 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	RE1	248	149.982	0.032	1.6	0.0594	0.0000	OK
480 minute summer	RE3	248	149.786	0.036	1.5	0.0641	0.0000	OK
480 minute summer	RE4	248	149.431	0.031	1.5	0.0551	0.0000	OK
480 minute summer	RE5	248	149.427	0.027	1.2	0.0449	0.0000	OK
480 minute summer	RE6	248	149.779	0.029	1.8	0.0554	0.0000	OK
480 minute summer	RE9	248	149.013	0.013	0.5	0.0168	0.0000	OK
480 minute summer	S1	496	148.178	0.913	16.1	1.5207	0.0000	SURCHARGED
480 minute summer	S3	496	148.178	0.861	26.2	1.1214	0.0000	SURCHARGED
480 minute summer	S4	496	148.178	0.791	18.3	0.0000	0.0000	OK
480 minute summer	S5	248	149.200	0.025	3.8	0.0280	0.0000	OK
480 minute summer	PIC1	248	149.756	0.026	2.0	0.0323	0.0000	OK
480 minute summer	PIC3	248	149.591	0.021	1.9	0.0263	0.0000	OK
480 minute summer	PIC4	248	149.275	0.030	1.9	0.0367	0.0000	OK
480 minute summer	PIC5	248	149.139	0.039	1.6	0.0482	0.0000	OK
480 minute summer	F1	496	147.268	0.022	0.6	0.0000	0.0000	OK
480 minute summer	S1A	496	147.295	0.044	0.6	0.0499	0.0000	OK
480 minute summer	Swale Inlet	248	149.086	0.076	6.9	0.1184	0.0000	OK
480 minute summer	Swale Outlet	248	148.544	0.184	12.1	0.2740	0.0000	OK
480 minute summer	S1B	496	147.300	0.043	0.6	0.0484	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	RE1	2.000	PIC1	1.6	0.847	0.206	0.0253	
480 minute summer	RE3	4.000	PIC3	1.5	0.827	0.233	0.0291	
480 minute summer	RE4	5.000	PIC4	1.5	0.749	0.193	0.0189	
480 minute summer	RE5	1.000	PIC5	1.2	0.714	0.154	0.0253	
480 minute summer	RE6	3.000	S5	1.8	0.983	0.173	0.0280	
480 minute summer	RE9	6.000	S3	0.5	0.879	0.033	0.0597	
480 minute summer	S1	Hydro-Brake®	S1B	0.6				
480 minute summer	S3	2.004	S1	-15.5	-0.389	-0.280	0.3536	
480 minute summer	S4	2.003	S3	-10.7	0.017	-0.002	242.7507	
480 minute summer	S5	2.002	S4	3.8	1.405	0.025	0.4600	
480 minute summer	PIC1	2.001	S5	2.0	1.284	0.135	0.0114	
480 minute summer	PIC3	4.001	S4	1.9	1.630	0.091	0.0070	
480 minute summer	PIC4	5.001	S4	1.9	0.968	0.192	0.0277	
480 minute summer	PIC5	1.001	Swale Inlet	1.6	0.351	0.321	0.0602	
480 minute summer	S1A	1.006	F1	0.6	0.211	0.218	0.0084	81.9
480 minute summer	Swale Inlet	1.002	Swale Outlet	6.8	0.188	0.013	3.0577	
480 minute summer	Swale Outlet	1.003	S1	11.8	0.392	0.622	0.8902	
480 minute summer	S1B	1.005	S1A	0.6	0.112	0.069	0.0161	

Results for 30 year +40% CC 480 minute winter. 2480 minute analysis at 8 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	RE1	240	149.978	0.028	1.2	0.0511	0.0000	OK
480 minute winter	RE3	232	149.780	0.030	1.1	0.0545	0.0000	OK
480 minute winter	RE4	232	149.426	0.026	1.1	0.0468	0.0000	OK
480 minute winter	RE5	240	149.423	0.023	0.9	0.0387	0.0000	OK
480 minute winter	RE6	248	149.775	0.025	1.4	0.0487	0.0000	OK
480 minute winter	RE9	216	149.010	0.010	0.3	0.0132	0.0000	OK
480 minute winter	S1	496	148.292	1.027	12.3	1.7092	0.0000	SURCHARGED
480 minute winter	S3	496	148.292	0.974	19.6	1.2688	0.0000	SURCHARGED
480 minute winter	S4	488	148.292	0.905	13.8	0.0000	0.0000	SURCHARGED
480 minute winter	S5	248	149.197	0.022	2.9	0.0246	0.0000	OK
480 minute winter	PIC1	240	149.752	0.022	1.5	0.0278	0.0000	OK
480 minute winter	PIC3	232	149.588	0.018	1.4	0.0226	0.0000	OK
480 minute winter	PIC4	232	149.271	0.026	1.4	0.0314	0.0000	OK
480 minute winter	PIC5	240	149.133	0.033	1.2	0.0414	0.0000	OK
480 minute winter	F1	488	147.268	0.022	0.6	0.0000	0.0000	OK
480 minute winter	S1A	488	147.296	0.045	0.6	0.0510	0.0000	OK
480 minute winter	Swale Inlet	248	149.075	0.065	5.2	0.1016	0.0000	OK
480 minute winter	Swale Outlet	256	148.523	0.163	9.2	0.2421	0.0000	OK
480 minute winter	S1B	488	147.301	0.044	0.6	0.0496	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	RE1	2.000	PIC1	1.2	0.784	0.154	0.0205	
480 minute winter	RE3	4.000	PIC3	1.1	0.758	0.171	0.0233	
480 minute winter	RE4	5.000	PIC4	1.1	0.687	0.142	0.0151	
480 minute winter	RE5	1.000	PIC5	0.9	0.659	0.115	0.0206	
480 minute winter	RE6	3.000	S5	1.4	0.916	0.134	0.0234	
480 minute winter	RE9	6.000	S3	0.3	0.753	0.020	0.0611	
480 minute winter	S1	Hydro-Brake®	S1B	0.6				
480 minute winter	S3	2.004	S1	-11.7	-0.293	-0.212	0.3536	
480 minute winter	S4	2.003	S3	-8.1	0.019	-0.001	276.1082	
480 minute winter	S5	2.002	S4	2.9	1.324	0.019	0.4555	
480 minute winter	PIC1	2.001	S5	1.5	1.186	0.102	0.0093	
480 minute winter	PIC3	4.001	S4	1.4	1.491	0.067	0.0057	
480 minute winter	PIC4	5.001	S4	1.4	0.888	0.141	0.0222	
480 minute winter	PIC5	1.001	Swale Inlet	1.2	0.317	0.241	0.0504	
480 minute winter	S1A	1.006	F1	0.6	0.215	0.229	0.0087	86.1
480 minute winter	Swale Inlet	1.002	Swale Outlet	5.2	0.172	0.010	2.5214	
480 minute winter	Swale Outlet	1.003	S1	9.1	0.357	0.479	0.7578	
480 minute winter	S1B	1.005	S1A	0.6	0.114	0.073	0.0166	

Results for 30 year +40% CC 600 minute summer. 2610 minute analysis at 15 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	RE1	315	149.979	0.029	1.3	0.0533	0.0000	OK
600 minute summer	RE3	315	149.782	0.032	1.2	0.0571	0.0000	OK
600 minute summer	RE4	315	149.427	0.027	1.2	0.0490	0.0000	OK
600 minute summer	RE5	315	149.425	0.025	1.0	0.0409	0.0000	OK
600 minute summer	RE6	315	149.776	0.026	1.5	0.0504	0.0000	OK
600 minute summer	RE9	315	149.011	0.011	0.4	0.0151	0.0000	OK
600 minute summer	S1	615	148.191	0.926	13.4	1.5413	0.0000	SURCHARGED
600 minute summer	S3	615	148.191	0.874	21.4	1.1376	0.0000	SURCHARGED
600 minute summer	S4	615	148.191	0.804	13.9	0.0000	0.0000	SURCHARGED
600 minute summer	S5	315	149.197	0.022	3.1	0.0254	0.0000	OK
600 minute summer	PIC1	315	149.753	0.023	1.6	0.0287	0.0000	OK
600 minute summer	PIC3	315	149.589	0.019	1.5	0.0234	0.0000	OK
600 minute summer	PIC4	315	149.272	0.027	1.5	0.0325	0.0000	OK
600 minute summer	PIC5	315	149.135	0.035	1.3	0.0431	0.0000	OK
600 minute summer	F1	615	147.268	0.022	0.6	0.0000	0.0000	OK
600 minute summer	S1A	615	147.295	0.044	0.6	0.0501	0.0000	OK
600 minute summer	Swale Inlet	315	149.078	0.068	5.6	0.1061	0.0000	OK
600 minute summer	Swale Outlet	315	148.529	0.169	9.9	0.2519	0.0000	OK
600 minute summer	S1B	615	147.300	0.043	0.6	0.0485	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	RE1	2.000	PIC1	1.3	0.804	0.167	0.0217	
600 minute summer	RE3	4.000	PIC3	1.2	0.779	0.186	0.0247	
600 minute summer	RE4	5.000	PIC4	1.2	0.707	0.155	0.0160	
600 minute summer	RE5	1.000	PIC5	1.0	0.679	0.128	0.0222	
600 minute summer	RE6	3.000	S5	1.5	0.934	0.144	0.0246	
600 minute summer	RE9	6.000	S3	0.4	0.821	0.027	0.0597	
600 minute summer	S1	Hydro-Brake®	S1B	0.6				
600 minute summer	S3	2.004	S1	-12.8	-0.321	-0.231	0.3536	
600 minute summer	S4	2.003	S3	-7.8	0.014	-0.001	246.4581	
600 minute summer	S5	2.002	S4	3.1	1.185	0.021	0.4566	
600 minute summer	PIC1	2.001	S5	1.6	1.207	0.108	0.0097	
600 minute summer	PIC3	4.001	S4	1.5	1.521	0.072	0.0060	
600 minute summer	PIC4	5.001	S4	1.5	0.906	0.151	0.0233	
600 minute summer	PIC5	1.001	Swale Inlet	1.3	0.321	0.261	0.0531	
600 minute summer	S1A	1.006	F1	0.6	0.211	0.219	0.0084	86.2
600 minute summer	Swale Inlet	1.002	Swale Outlet	5.6	0.178	0.010	2.6773	
600 minute summer	Swale Outlet	1.003	S1	9.9	0.368	0.521	0.7986	
600 minute summer	S1B	1.005	S1A	0.6	0.112	0.069	0.0162	

Results for 30 year +40% CC 600 minute winter. 2610 minute analysis at 15 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	RE1	315	149.976	0.026	1.0	0.0467	0.0000	OK
600 minute winter	RE3	300	149.777	0.027	0.9	0.0493	0.0000	OK
600 minute winter	RE4	300	149.424	0.024	0.9	0.0424	0.0000	OK
600 minute winter	RE5	300	149.421	0.020	0.7	0.0341	0.0000	OK
600 minute winter	RE6	300	149.772	0.022	1.1	0.0430	0.0000	OK
600 minute winter	RE9	300	149.010	0.010	0.3	0.0132	0.0000	OK
600 minute winter	S1	600	148.309	1.043	10.2	1.7495	0.0000	SURCHARGED
600 minute winter	S3	615	148.308	0.991	16.1	1.2908	0.0000	SURCHARGED
600 minute winter	S4	615	148.308	0.921	11.5	0.0000	0.0000	SURCHARGED
600 minute winter	S5	315	149.195	0.020	2.3	0.0221	0.0000	OK
600 minute winter	PIC1	315	149.750	0.020	1.2	0.0248	0.0000	OK
600 minute winter	PIC3	300	149.586	0.016	1.1	0.0201	0.0000	OK
600 minute winter	PIC4	300	149.268	0.023	1.1	0.0278	0.0000	OK
600 minute winter	PIC5	300	149.129	0.029	0.9	0.0356	0.0000	OK
600 minute winter	F1	615	147.268	0.022	0.6	0.0000	0.0000	OK
600 minute winter	S1A	615	147.296	0.045	0.6	0.0512	0.0000	OK
600 minute winter	Swale Inlet	315	149.068	0.058	4.2	0.0904	0.0000	OK
600 minute winter	Swale Outlet	315	148.509	0.149	7.5	0.2213	0.0000	OK
600 minute winter	S1B	615	147.301	0.044	0.6	0.0497	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	RE1	2.000	PIC1	1.0	0.753	0.129	0.0178	
600 minute winter	RE3	4.000	PIC3	0.9	0.722	0.140	0.0201	
600 minute winter	RE4	5.000	PIC4	0.9	0.657	0.116	0.0129	
600 minute winter	RE5	1.000	PIC5	0.7	0.613	0.090	0.0172	
600 minute winter	RE6	3.000	S5	1.1	0.856	0.106	0.0197	
600 minute winter	RE9	6.000	S3	0.3	0.753	0.020	0.0611	
600 minute winter	S1	Hydro-Brake®	S1B	0.6				
600 minute winter	S3	2.004	S1	-9.6	-0.241	-0.174	0.3536	
600 minute winter	S4	2.003	S3	-7.1	0.015	-0.001	281.0183	
600 minute winter	S5	2.002	S4	2.3	1.331	0.015	0.4523	
600 minute winter	PIC1	2.001	S5	1.2	1.113	0.081	0.0079	
600 minute winter	PIC3	4.001	S4	1.1	1.390	0.053	0.0048	
600 minute winter	PIC4	5.001	S4	1.1	0.829	0.111	0.0187	
600 minute winter	PIC5	1.001	Swale Inlet	0.9	0.285	0.180	0.0430	
600 minute winter	S1A	1.006	F1	0.6	0.215	0.231	0.0087	90.5
600 minute winter	Swale Inlet	1.002	Swale Outlet	4.2	0.161	0.008	2.1951	
600 minute winter	Swale Outlet	1.003	S1	7.5	0.334	0.395	0.6729	
600 minute winter	S1B	1.005	S1A	0.6	0.115	0.073	0.0167	

Results for 30 year +40% CC 720 minute summer. 2730 minute analysis at 15 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	RE1	375	149.977	0.027	1.1	0.0488	0.0000	OK
720 minute summer	RE3	375	149.780	0.030	1.1	0.0545	0.0000	OK
720 minute summer	RE4	375	149.426	0.026	1.1	0.0468	0.0000	OK
720 minute summer	RE5	375	149.423	0.023	0.9	0.0387	0.0000	OK
720 minute summer	RE6	375	149.774	0.024	1.3	0.0469	0.0000	OK
720 minute summer	RE9	360	149.010	0.010	0.3	0.0132	0.0000	OK
720 minute summer	S1	735	148.204	0.939	11.6	1.5627	0.0000	SURCHARGED
720 minute summer	S3	735	148.204	0.887	18.4	1.1543	0.0000	SURCHARGED
720 minute summer	S4	735	148.204	0.817	12.4	0.0000	0.0000	SURCHARGED
720 minute summer	S5	375	149.196	0.021	2.7	0.0238	0.0000	OK
720 minute summer	PIC1	375	149.751	0.021	1.4	0.0268	0.0000	OK
720 minute summer	PIC3	375	149.588	0.018	1.4	0.0226	0.0000	OK
720 minute summer	PIC4	375	149.271	0.026	1.4	0.0314	0.0000	OK
720 minute summer	PIC5	375	149.133	0.033	1.2	0.0414	0.0000	OK
720 minute summer	F1	735	147.268	0.022	0.6	0.0000	0.0000	OK
720 minute summer	S1A	735	147.295	0.044	0.6	0.0502	0.0000	OK
720 minute summer	Swale Inlet	375	149.073	0.063	4.9	0.0985	0.0000	OK
720 minute summer	Swale Outlet	375	148.518	0.158	8.6	0.2358	0.0000	OK
720 minute summer	S1B	735	147.300	0.043	0.6	0.0487	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	RE1	2.000	PIC1	1.1	0.762	0.142	0.0194	
720 minute summer	RE3	4.000	PIC3	1.1	0.758	0.171	0.0233	
720 minute summer	RE4	5.000	PIC4	1.1	0.687	0.142	0.0151	
720 minute summer	RE5	1.000	PIC5	0.9	0.659	0.115	0.0206	
720 minute summer	RE6	3.000	S5	1.3	0.897	0.125	0.0222	
720 minute summer	RE9	6.000	S3	0.3	0.753	0.020	0.0597	
720 minute summer	S1	Hydro-Brake®	S1B	0.6				
720 minute summer	S3	2.004	S1	-11.0	-0.276	-0.199	0.3536	
720 minute summer	S4	2.003	S3	-6.9	0.014	-0.001	250.2411	
720 minute summer	S5	2.002	S4	2.7	1.145	0.018	0.4545	
720 minute summer	PIC1	2.001	S5	1.4	1.163	0.095	0.0088	
720 minute summer	PIC3	4.001	S4	1.4	1.491	0.067	0.0057	
720 minute summer	PIC4	5.001	S4	1.4	0.888	0.141	0.0222	
720 minute summer	PIC5	1.001	Swale Inlet	1.2	0.321	0.241	0.0492	
720 minute summer	S1A	1.006	F1	0.6	0.212	0.220	0.0085	90.4
720 minute summer	Swale Inlet	1.002	Swale Outlet	4.9	0.171	0.009	2.4229	
720 minute summer	Swale Outlet	1.003	S1	8.6	0.350	0.453	0.7320	
720 minute summer	S1B	1.005	S1A	0.6	0.113	0.070	0.0162	

Results for 30 year +40% CC 720 minute winter. 2730 minute analysis at 15 minute timestep. Mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	RE1	345	149.973	0.023	0.8	0.0416	0.0000	OK
720 minute winter	RE3	360	149.776	0.026	0.8	0.0464	0.0000	OK
720 minute winter	RE4	360	149.422	0.022	0.8	0.0398	0.0000	OK
720 minute winter	RE5	345	149.419	0.019	0.6	0.0316	0.0000	OK
720 minute winter	RE6	375	149.771	0.021	1.0	0.0410	0.0000	OK
720 minute winter	RE9	300	149.008	0.008	0.2	0.0109	0.0000	OK
720 minute winter	S1	735	148.321	1.056	8.7	1.7987	0.0000	SURCHARGED
720 minute winter	S3	720	148.321	1.004	13.7	1.3073	0.0000	SURCHARGED
720 minute winter	S4	720	148.321	0.934	9.3	0.0000	0.0000	SURCHARGED
720 minute winter	S5	375	149.193	0.018	2.0	0.0207	0.0000	OK
720 minute winter	PIC1	345	149.748	0.018	1.0	0.0227	0.0000	OK
720 minute winter	PIC3	360	149.585	0.015	1.0	0.0192	0.0000	OK
720 minute winter	PIC4	360	149.267	0.022	1.0	0.0265	0.0000	OK
720 minute winter	PIC5	345	149.127	0.027	0.8	0.0336	0.0000	OK
720 minute winter	F1	735	147.268	0.022	0.6	0.0000	0.0000	OK
720 minute winter	S1A	735	147.296	0.045	0.6	0.0513	0.0000	OK
720 minute winter	Swale Inlet	375	149.063	0.053	3.6	0.0829	0.0000	OK
720 minute winter	Swale Outlet	375	148.498	0.138	6.4	0.2060	0.0000	OK
720 minute winter	S1B	735	147.301	0.044	0.6	0.0499	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	RE1	2.000	PIC1	0.8	0.700	0.103	0.0153	
720 minute winter	RE3	4.000	PIC3	0.8	0.695	0.124	0.0185	
720 minute winter	RE4	5.000	PIC4	0.8	0.632	0.103	0.0119	
720 minute winter	RE5	1.000	PIC5	0.6	0.586	0.077	0.0154	
720 minute winter	RE6	3.000	S5	1.0	0.832	0.096	0.0184	
720 minute winter	RE9	6.000	S3	0.2	0.666	0.013	0.0611	
720 minute winter	S1	Hydro-Brake®	S1B	0.6				
720 minute winter	S3	2.004	S1	-8.1	-0.204	-0.147	0.3536	
720 minute winter	S4	2.003	S3	-5.4	0.016	-0.001	284.7401	
720 minute winter	S5	2.002	S4	2.0	1.191	0.013	0.4507	
720 minute winter	PIC1	2.001	S5	1.0	1.056	0.068	0.0069	
720 minute winter	PIC3	4.001	S4	1.0	1.352	0.048	0.0045	
720 minute winter	PIC4	5.001	S4	1.0	0.807	0.101	0.0175	
720 minute winter	PIC5	1.001	Swale Inlet	0.8	0.284	0.160	0.0389	
720 minute winter	S1A	1.006	F1	0.6	0.216	0.232	0.0088	94.7
720 minute winter	Swale Inlet	1.002	Swale Outlet	3.6	0.153	0.007	1.9721	
720 minute winter	Swale Outlet	1.003	S1	6.4	0.316	0.337	0.6094	
720 minute winter	S1B	1.005	S1A	0.6	0.115	0.074	0.0168	

Results for 30 year +40% CC 960 minute summer. 2970 minute analysis at 15 minute timestep. Mass balance: 99.64%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	RE1	495	149.974	0.024	0.9	0.0442	0.0000	OK
960 minute summer	RE3	495	149.776	0.026	0.8	0.0464	0.0000	OK
960 minute summer	RE4	495	149.422	0.022	0.8	0.0398	0.0000	OK
960 minute summer	RE5	495	149.421	0.020	0.7	0.0341	0.0000	OK
960 minute summer	RE6	495	149.771	0.021	1.0	0.0410	0.0000	OK
960 minute summer	RE9	495	149.010	0.010	0.3	0.0132	0.0000	OK
960 minute summer	S1	975	148.219	0.954	9.3	1.5880	0.0000	SURCHARGED
960 minute summer	S3	975	148.219	0.902	14.7	1.1741	0.0000	SURCHARGED
960 minute summer	S4	975	148.219	0.832	9.5	0.0000	0.0000	SURCHARGED
960 minute summer	S5	495	149.194	0.019	2.1	0.0212	0.0000	OK
960 minute summer	PIC1	495	149.749	0.019	1.1	0.0238	0.0000	OK
960 minute summer	PIC3	495	149.585	0.015	1.0	0.0192	0.0000	OK
960 minute summer	PIC4	495	149.267	0.022	1.0	0.0265	0.0000	OK
960 minute summer	PIC5	495	149.129	0.029	0.9	0.0356	0.0000	OK
960 minute summer	F1	975	147.268	0.022	0.6	0.0000	0.0000	OK
960 minute summer	S1A	975	147.296	0.045	0.6	0.0503	0.0000	OK
960 minute summer	Swale Inlet	495	149.066	0.056	3.9	0.0867	0.0000	OK
960 minute summer	Swale Outlet	495	148.503	0.143	6.9	0.2131	0.0000	OK
960 minute summer	S1B	975	147.300	0.043	0.6	0.0488	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	RE1	2.000	PIC1	0.9	0.728	0.116	0.0166	
960 minute summer	RE3	4.000	PIC3	0.8	0.695	0.124	0.0185	
960 minute summer	RE4	5.000	PIC4	0.8	0.632	0.103	0.0119	
960 minute summer	RE5	1.000	PIC5	0.7	0.613	0.090	0.0172	
960 minute summer	RE6	3.000	S5	1.0	0.832	0.096	0.0184	
960 minute summer	RE9	6.000	S3	0.3	0.753	0.020	0.0597	
960 minute summer	S1	Hydro-Brake®	S1B	0.6				
960 minute summer	S3	2.004	S1	-8.7	-0.219	-0.158	0.3536	
960 minute summer	S4	2.003	S3	-5.4	0.017	-0.001	254.7043	
960 minute summer	S5	2.002	S4	2.1	1.145	0.014	0.4513	
960 minute summer	PIC1	2.001	S5	1.1	1.085	0.074	0.0074	
960 minute summer	PIC3	4.001	S4	1.0	1.352	0.048	0.0045	
960 minute summer	PIC4	5.001	S4	1.0	0.807	0.101	0.0175	
960 minute summer	PIC5	1.001	Swale Inlet	0.9	0.287	0.180	0.0415	
960 minute summer	S1A	1.006	F1	0.6	0.212	0.222	0.0085	98.3
960 minute summer	Swale Inlet	1.002	Swale Outlet	3.9	0.158	0.007	2.0759	
960 minute summer	Swale Outlet	1.003	S1	6.9	0.324	0.363	0.6384	
960 minute summer	S1B	1.005	S1A	0.6	0.113	0.070	0.0163	

Results for 30 year +40% CC 960 minute winter. 2970 minute analysis at 15 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	RE1	495	149.971	0.021	0.7	0.0388	0.0000	OK
960 minute winter	RE3	450	149.772	0.022	0.6	0.0404	0.0000	OK
960 minute winter	RE4	450	149.419	0.019	0.6	0.0347	0.0000	OK
960 minute winter	RE5	465	149.417	0.017	0.5	0.0289	0.0000	OK
960 minute winter	RE6	495	149.769	0.019	0.8	0.0367	0.0000	OK
960 minute winter	RE9	435	149.008	0.008	0.2	0.0109	0.0000	OK
960 minute winter	S1	960	148.332	1.067	6.9	1.8550	0.0000	SURCHARGED
960 minute winter	S3	960	148.332	1.015	10.7	1.3213	0.0000	SURCHARGED
960 minute winter	S4	960	148.332	0.945	7.7	0.0000	0.0000	SURCHARGED
960 minute winter	S5	495	149.192	0.017	1.7	0.0192	0.0000	OK
960 minute winter	PIC1	495	149.747	0.017	0.9	0.0215	0.0000	OK
960 minute winter	PIC3	480	149.584	0.014	0.8	0.0172	0.0000	OK
960 minute winter	PIC4	480	149.264	0.019	0.8	0.0237	0.0000	OK
960 minute winter	PIC5	480	149.125	0.025	0.7	0.0314	0.0000	OK
960 minute winter	F1	960	147.268	0.022	0.6	0.0000	0.0000	OK
960 minute winter	S1A	960	147.297	0.045	0.6	0.0514	0.0000	OK
960 minute winter	Swale Inlet	495	149.057	0.047	2.9	0.0733	0.0000	OK
960 minute winter	Swale Outlet	495	148.485	0.125	5.1	0.1856	0.0000	OK
960 minute winter	S1B	960	147.301	0.044	0.6	0.0500	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	RE1	2.000	PIC1	0.7	0.669	0.090	0.0140	
960 minute winter	RE3	4.000	PIC3	0.6	0.649	0.093	0.0153	
960 minute winter	RE4	5.000	PIC4	0.6	0.594	0.077	0.0099	
960 minute winter	RE5	1.000	PIC5	0.5	0.555	0.064	0.0136	
960 minute winter	RE6	3.000	S5	0.8	0.780	0.077	0.0157	
960 minute winter	RE9	6.000	S3	0.2	0.666	0.013	0.0611	
960 minute winter	S1	Hydro-Brake®	S1B	0.6				
960 minute winter	S3	2.004	S1	-6.3	-0.159	-0.115	0.3536	
960 minute winter	S4	2.003	S3	-4.4	0.014	-0.001	287.9304	
960 minute winter	S5	2.002	S4	1.7	1.195	0.011	0.4490	
960 minute winter	PIC1	2.001	S5	0.9	1.024	0.061	0.0064	
960 minute winter	PIC3	4.001	S4	0.8	1.266	0.038	0.0038	
960 minute winter	PIC4	5.001	S4	0.8	0.756	0.081	0.0149	
960 minute winter	PIC5	1.001	Swale Inlet	0.7	0.279	0.140	0.0339	
960 minute winter	S1A	1.006	F1	0.6	0.216	0.234	0.0088	102.5
960 minute winter	Swale Inlet	1.002	Swale Outlet	2.9	0.144	0.005	1.6920	
960 minute winter	Swale Outlet	1.003	S1	5.1	0.292	0.269	0.5286	
960 minute winter	S1B	1.005	S1A	0.6	0.115	0.074	0.0168	

Results for 30 year +40% CC 1440 minute summer. 3450 minute analysis at 30 minute timestep. Mass balance: 99.65%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	RE1	750	149.970	0.020	0.6	0.0362	0.0000	OK
1440 minute summer	RE3	750	149.772	0.022	0.6	0.0404	0.0000	OK
1440 minute summer	RE4	750	149.419	0.019	0.6	0.0347	0.0000	OK
1440 minute summer	RE5	750	149.417	0.017	0.5	0.0289	0.0000	OK
1440 minute summer	RE6	750	149.768	0.018	0.7	0.0344	0.0000	OK
1440 minute summer	RE9	750	149.008	0.008	0.2	0.0109	0.0000	OK
1440 minute summer	S1	1470	148.229	0.964	6.3	1.6050	0.0000	SURCHARGED
1440 minute summer	S3	1470	148.229	0.912	9.8	1.1874	0.0000	SURCHARGED
1440 minute summer	S4	1470	148.229	0.842	6.0	0.0000	0.0000	SURCHARGED
1440 minute summer	S5	750	149.191	0.016	1.4	0.0176	0.0000	OK
1440 minute summer	PIC1	750	149.745	0.015	0.7	0.0190	0.0000	OK
1440 minute summer	PIC3	750	149.583	0.013	0.7	0.0161	0.0000	OK
1440 minute summer	PIC4	750	149.263	0.018	0.7	0.0222	0.0000	OK
1440 minute summer	PIC5	750	149.123	0.023	0.6	0.0290	0.0000	OK
1440 minute summer	F1	1470	147.268	0.022	0.6	0.0000	0.0000	OK
1440 minute summer	S1A	1470	147.296	0.045	0.6	0.0504	0.0000	OK
1440 minute summer	Swale Inlet	750	149.054	0.044	2.6	0.0689	0.0000	OK
1440 minute summer	Swale Outlet	750	148.479	0.119	4.6	0.1774	0.0000	OK
1440 minute summer	S1B	1470	147.300	0.043	0.6	0.0489	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	RE1	2.000	PIC1	0.6	0.656	0.077	0.0123	
1440 minute summer	RE3	4.000	PIC3	0.6	0.649	0.093	0.0149	
1440 minute summer	RE4	5.000	PIC4	0.6	0.594	0.077	0.0095	
1440 minute summer	RE5	1.000	PIC5	0.5	0.555	0.064	0.0136	
1440 minute summer	RE6	3.000	S5	0.7	0.750	0.067	0.0143	
1440 minute summer	RE9	6.000	S3	0.2	0.666	0.013	0.0597	
1440 minute summer	S1	Hydro-Brake®	S1B	0.6				
1440 minute summer	S3	2.004	S1	-5.7	-0.144	-0.104	0.3536	
1440 minute summer	S4	2.003	S3	-3.2	0.021	-0.001	257.7063	
1440 minute summer	S5	2.002	S4	1.4	1.060	0.009	0.4471	
1440 minute summer	PIC1	2.001	S5	0.7	0.953	0.047	0.0054	
1440 minute summer	PIC3	4.001	S4	0.7	1.216	0.034	0.0035	
1440 minute summer	PIC4	5.001	S4	0.7	0.726	0.071	0.0136	
1440 minute summer	PIC5	1.001	Swale Inlet	0.6	0.258	0.120	0.0310	
1440 minute summer	S1A	1.006	F1	0.6	0.213	0.223	0.0085	112.9
1440 minute summer	Swale Inlet	1.002	Swale Outlet	2.6	0.138	0.005	1.5806	
1440 minute summer	Swale Outlet	1.003	S1	4.6	0.281	0.242	0.4953	
1440 minute summer	S1B	1.005	S1A	0.6	0.113	0.071	0.0163	

Results for 30 year +40% CC 1440 minute winter. 3450 minute analysis at 30 minute timestep. Mass balance: 99.61%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	RE1	750	149.968	0.018	0.5	0.0331	0.0000	OK
1440 minute winter	RE3	660	149.768	0.018	0.4	0.0329	0.0000	OK
1440 minute winter	RE4	660	149.416	0.016	0.4	0.0282	0.0000	OK
1440 minute winter	RE5	750	149.416	0.016	0.4	0.0259	0.0000	OK
1440 minute winter	RE6	690	149.765	0.015	0.5	0.0291	0.0000	OK
1440 minute winter	RE9	510	149.006	0.006	0.1	0.0079	0.0000	OK
1440 minute winter	S1	1440	148.349	1.084	4.8	1.9601	0.0000	SURCHARGED
1440 minute winter	S3	1440	148.349	1.032	7.2	1.3438	0.0000	SURCHARGED
1440 minute winter	S4	1440	148.349	0.962	5.1	0.0000	0.0000	SURCHARGED
1440 minute winter	S5	750	149.189	0.014	1.1	0.0157	0.0000	OK
1440 minute winter	PIC1	750	149.744	0.014	0.6	0.0176	0.0000	OK
1440 minute winter	PIC3	660	149.581	0.011	0.5	0.0137	0.0000	OK
1440 minute winter	PIC4	660	149.260	0.015	0.5	0.0188	0.0000	OK
1440 minute winter	PIC5	750	149.121	0.021	0.5	0.0265	0.0000	OK
1440 minute winter	F1	1440	147.268	0.022	0.6	0.0000	0.0000	OK
1440 minute winter	S1A	1440	147.297	0.046	0.6	0.0516	0.0000	OK
1440 minute winter	Swale Inlet	750	149.048	0.038	2.0	0.0592	0.0000	OK
1440 minute winter	Swale Outlet	750	148.466	0.106	3.5	0.1573	0.0000	OK
1440 minute winter	S1B	1440	147.301	0.044	0.6	0.0501	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	RE1	2.000	PIC1	0.5	0.618	0.064	0.0109	
1440 minute winter	RE3	4.000	PIC3	0.4	0.567	0.062	0.0113	
1440 minute winter	RE4	5.000	PIC4	0.4	0.518	0.052	0.0073	
1440 minute winter	RE5	1.000	PIC5	0.4	0.521	0.051	0.0116	
1440 minute winter	RE6	3.000	S5	0.5	0.680	0.048	0.0112	
1440 minute winter	RE9	6.000	S3	0.1	0.537	0.007	0.0611	
1440 minute winter	S1	Hydro-Brake®	S1B	0.6				
1440 minute winter	S3	2.004	S1	-4.2	-0.107	-0.077	0.3536	
1440 minute winter	S4	2.003	S3	-3.1	0.012	-0.001	292.9959	
1440 minute winter	S5	2.002	S4	1.1	1.085	0.007	0.4451	
1440 minute winter	PIC1	2.001	S5	0.6	0.910	0.041	0.0048	
1440 minute winter	PIC3	4.001	S4	0.5	1.099	0.024	0.0027	
1440 minute winter	PIC4	5.001	S4	0.5	0.659	0.050	0.0107	
1440 minute winter	PIC5	1.001	Swale Inlet	0.5	0.257	0.100	0.0259	
1440 minute winter	S1A	1.006	F1	0.6	0.217	0.235	0.0088	117.8
1440 minute winter	Swale Inlet	1.002	Swale Outlet	2.0	0.125	0.004	1.3281	
1440 minute winter	Swale Outlet	1.003	S1	3.5	0.256	0.184	0.4168	
1440 minute winter	S1B	1.005	S1A	0.6	0.115	0.075	0.0169	

Results for 100 year +40% CC 15 minute summer. 2015 minute analysis at 1 minute timestep. Mass balance: 99.95%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	RE1	10	150.443	0.493	16.4	0.9029	0.0000	FLOOD RISK
15 minute summer	RE3	11	150.264	0.514	15.6	0.9243	0.0000	FLOOD RISK
15 minute summer	RE4	11	149.924	0.524	15.6	0.9423	0.0000	FLOOD RISK
15 minute summer	RE5	11	149.884	0.484	12.5	0.8047	0.0000	FLOOD RISK
15 minute summer	RE6	10	150.243	0.493	18.8	0.9518	0.0000	FLOOD RISK
15 minute summer	RE9	9	149.039	0.038	4.7	0.0512	0.0000	OK
15 minute summer	S1	19	147.782	0.517	65.3	0.8603	0.0000	SURCHARGED
15 minute summer	S3	37	147.752	0.435	167.8	0.5665	0.0000	SURCHARGED
15 minute summer	S4	36	147.752	0.365	160.5	0.0000	0.0000	OK
15 minute summer	S5	8	149.240	0.065	27.1	0.0733	0.0000	OK
15 minute summer	PIC1	11	149.889	0.159	14.8	0.1990	0.0000	SURCHARGED
15 minute summer	PIC3	10	149.634	0.064	14.0	0.0804	0.0000	OK
15 minute summer	PIC4	11	149.602	0.357	13.7	0.4366	0.0000	SURCHARGED
15 minute summer	PIC5	11	149.592	0.492	11.2	0.6104	0.0000	SURCHARGED
15 minute summer	F1	22	147.265	0.019	0.5	0.0000	0.0000	OK
15 minute summer	S1A	22	147.291	0.039	0.5	0.0446	0.0000	OK
15 minute summer	Swale Inlet	13	149.188	0.178	36.5	0.2771	0.0000	OK
15 minute summer	Swale Outlet	17	148.855	0.495	62.3	0.7365	0.0000	SURCHARGED
15 minute summer	S1B	21	147.295	0.038	0.5	0.0428	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	RE1	2.000	PIC1	11.4	1.452	1.462	0.1046	
15 minute summer	RE3	4.000	PIC3	10.6	1.490	1.642	0.1034	
15 minute summer	RE4	5.000	PIC4	10.3	1.317	1.327	0.0739	
15 minute summer	RE5	1.000	PIC5	7.8	1.027	1.003	0.1178	
15 minute summer	RE6	3.000	S5	13.4	1.712	1.285	0.1186	
15 minute summer	RE9	6.000	S3	4.5	1.657	0.303	0.0419	
15 minute summer	S1	Hydro-Brake®	S1B	0.5				
15 minute summer	S3	2.004	S1	-64.4	-1.620	-1.167	0.3536	
15 minute summer	S4	2.003	S3	-119.8	-0.236	-0.022	114.8303	
15 minute summer	S5	2.002	S4	27.2	3.610	0.181	0.5173	
15 minute summer	PIC1	2.001	S5	13.8	1.945	0.935	0.0524	
15 minute summer	PIC3	4.001	S4	13.9	2.740	0.671	0.0308	
15 minute summer	PIC4	5.001	S4	12.4	1.582	1.249	0.1092	
15 minute summer	PIC5	1.001	Swale Inlet	10.0	1.276	2.002	0.1025	
15 minute summer	S1A	1.006	F1	0.5	0.191	0.166	0.0071	50.7
15 minute summer	Swale Inlet	1.002	Swale Outlet	35.6	0.386	0.067	14.2448	
15 minute summer	Swale Outlet	1.003	S1	46.0	0.738	2.422	1.6150	
15 minute summer	S1B	1.005	S1A	0.5	0.176	0.055	0.0136	

Results for 100 year +40% CC 15 minute winter. 2015 minute analysis at 1 minute timestep. Mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	RE1	11	150.463	0.513	15.4	0.9389	0.0000	FLOOD RISK
15 minute winter	RE3	11	150.287	0.537	14.6	0.9657	0.0000	FLOOD RISK
15 minute winter	RE4	11	149.948	0.548	14.6	0.9858	0.0000	FLOOD RISK
15 minute winter	RE5	11	149.916	0.516	11.7	0.8578	0.0000	FLOOD RISK
15 minute winter	RE6	11	150.242	0.492	17.5	0.9503	0.0000	FLOOD RISK
15 minute winter	RE9	9	149.037	0.037	4.4	0.0497	0.0000	OK
15 minute winter	S1	20	147.836	0.571	68.4	0.9501	0.0000	SURCHARGED
15 minute winter	S3	52	147.801	0.484	162.3	0.6297	0.0000	SURCHARGED
15 minute winter	S4	38	147.801	0.414	174.4	0.0000	0.0000	OK
15 minute winter	S5	11	149.240	0.065	27.3	0.0734	0.0000	OK
15 minute winter	PIC1	11	149.897	0.167	14.6	0.2088	0.0000	SURCHARGED
15 minute winter	PIC3	10	149.633	0.063	13.9	0.0800	0.0000	OK
15 minute winter	PIC4	11	149.613	0.368	13.5	0.4499	0.0000	SURCHARGED
15 minute winter	PIC5	11	149.610	0.510	11.1	0.6332	0.0000	SURCHARGED
15 minute winter	F1	21	147.265	0.019	0.5	0.0000	0.0000	OK
15 minute winter	S1A	21	147.291	0.040	0.5	0.0454	0.0000	OK
15 minute winter	Swale Inlet	13	149.197	0.187	39.9	0.2906	0.0000	OK
15 minute winter	Swale Outlet	17	148.902	0.542	69.3	0.8071	0.0000	SURCHARGED
15 minute winter	S1B	22	147.296	0.039	0.5	0.0436	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	RE1	2.000	PIC1	11.4	1.455	1.465	0.1046	
15 minute winter	RE3	4.000	PIC3	10.8	1.506	1.672	0.1032	
15 minute winter	RE4	5.000	PIC4	10.2	1.308	1.318	0.0739	
15 minute winter	RE5	1.000	PIC5	7.9	1.013	1.015	0.1178	
15 minute winter	RE6	3.000	S5	13.4	1.716	1.288	0.1197	
15 minute winter	RE9	6.000	S3	4.3	1.635	0.287	0.0402	
15 minute winter	S1	Hydro-Brake®	S1B	0.5				
15 minute winter	S3	2.004	S1	-66.9	-1.684	-1.214	0.3536	
15 minute winter	S4	2.003	S3	-124.4	-0.233	-0.023	128.9465	
15 minute winter	S5	2.002	S4	27.3	3.701	0.183	0.5324	
15 minute winter	PIC1	2.001	S5	13.9	1.996	0.942	0.0525	
15 minute winter	PIC3	4.001	S4	13.8	2.736	0.666	0.0306	
15 minute winter	PIC4	5.001	S4	12.5	1.595	1.259	0.1098	
15 minute winter	PIC5	1.001	Swale Inlet	10.1	1.293	2.029	0.1025	
15 minute winter	S1A	1.006	F1	0.5	0.194	0.174	0.0073	52.2
15 minute winter	Swale Inlet	1.002	Swale Outlet	39.3	0.387	0.073	16.5800	
15 minute winter	Swale Outlet	1.003	S1	49.0	0.778	2.580	1.6399	
15 minute winter	S1B	1.005	S1A	0.5	0.176	0.056	0.0139	

Results for 100 year +40% CC 30 minute summer. 2030 minute analysis at 1 minute timestep. Mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	RE1	18	150.311	0.361	12.9	0.6611	0.0000	FLOOD RISK
30 minute summer	RE3	18	150.174	0.424	12.3	0.7619	0.0000	FLOOD RISK
30 minute summer	RE4	18	149.796	0.396	12.3	0.7126	0.0000	FLOOD RISK
30 minute summer	RE5	18	149.785	0.385	9.9	0.6400	0.0000	FLOOD RISK
30 minute summer	RE6	18	150.100	0.350	14.8	0.6754	0.0000	FLOOD RISK
30 minute summer	RE9	17	149.034	0.034	3.7	0.0457	0.0000	OK
30 minute summer	S1	31	147.890	0.625	66.5	1.0407	0.0000	SURCHARGED
30 minute summer	S3	57	147.871	0.554	151.0	0.7217	0.0000	SURCHARGED
30 minute summer	S4	58	147.871	0.484	124.6	0.0000	0.0000	OK
30 minute summer	S5	18	149.238	0.063	25.9	0.0714	0.0000	OK
30 minute summer	PIC1	18	149.820	0.090	13.6	0.1131	0.0000	OK
30 minute summer	PIC3	18	149.629	0.059	12.3	0.0740	0.0000	OK
30 minute summer	PIC4	19	149.514	0.269	12.3	0.3287	0.0000	SURCHARGED
30 minute summer	PIC5	19	149.537	0.436	10.1	0.5421	0.0000	SURCHARGED
30 minute summer	F1	32	147.266	0.020	0.5	0.0000	0.0000	OK
30 minute summer	S1A	32	147.292	0.041	0.5	0.0463	0.0000	OK
30 minute summer	Swale Inlet	21	149.189	0.179	36.7	0.2784	0.0000	OK
30 minute summer	Swale Outlet	25	148.875	0.515	63.6	0.7672	0.0000	SURCHARGED
30 minute summer	S1B	31	147.296	0.039	0.5	0.0446	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	RE1	2.000	PIC1	11.0	1.410	1.418	0.1021	
30 minute summer	RE3	4.000	PIC3	9.7	1.382	1.509	0.0995	
30 minute summer	RE4	5.000	PIC4	9.4	1.208	1.217	0.0739	
30 minute summer	RE5	1.000	PIC5	7.3	0.962	0.929	0.1178	
30 minute summer	RE6	3.000	S5	12.2	1.564	1.174	0.1197	
30 minute summer	RE9	6.000	S3	3.7	1.569	0.246	0.0360	
30 minute summer	S1	Hydro-Brake®	S1B	0.5				
30 minute summer	S3	2.004	S1	-64.8	-1.630	-1.175	0.3536	
30 minute summer	S4	2.003	S3	-76.7	-0.130	-0.014	151.4574	
30 minute summer	S5	2.002	S4	25.9	2.827	0.173	0.5301	
30 minute summer	PIC1	2.001	S5	13.7	1.979	0.928	0.0508	
30 minute summer	PIC3	4.001	S4	12.4	2.674	0.595	0.0280	
30 minute summer	PIC4	5.001	S4	11.5	1.469	1.160	0.1092	
30 minute summer	PIC5	1.001	Swale Inlet	9.3	1.184	1.858	0.1025	
30 minute summer	S1A	1.006	F1	0.5	0.197	0.183	0.0075	56.1
30 minute summer	Swale Inlet	1.002	Swale Outlet	36.0	0.318	0.067	15.2929	
30 minute summer	Swale Outlet	1.003	S1	47.3	0.756	2.492	1.6260	
30 minute summer	S1B	1.005	S1A	0.5	0.172	0.058	0.0144	

Results for 100 year +40% CC 30 minute winter. 2030 minute analysis at 1 minute timestep. Mass balance: 99.71%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	RE1	18	150.238	0.288	10.8	0.5272	0.0000	SURCHARGED
30 minute winter	RE3	19	150.097	0.347	10.3	0.6243	0.0000	FLOOD RISK
30 minute winter	RE4	19	149.697	0.297	10.3	0.5335	0.0000	SURCHARGED
30 minute winter	RE5	19	149.727	0.327	8.2	0.5433	0.0000	FLOOD RISK
30 minute winter	RE6	18	149.985	0.235	12.4	0.4530	0.0000	SURCHARGED
30 minute winter	RE9	17	149.031	0.031	3.1	0.0416	0.0000	OK
30 minute winter	S1	30	147.964	0.699	65.3	1.1637	0.0000	SURCHARGED
30 minute winter	S3	61	147.935	0.618	135.8	0.8046	0.0000	SURCHARGED
30 minute winter	S4	57	147.935	0.548	113.8	0.0000	0.0000	OK
30 minute winter	S5	18	149.235	0.060	23.3	0.0677	0.0000	OK
30 minute winter	PIC1	18	149.808	0.078	12.2	0.0977	0.0000	OK
30 minute winter	PIC3	18	149.626	0.056	11.4	0.0700	0.0000	OK
30 minute winter	PIC4	19	149.453	0.208	11.2	0.2545	0.0000	SURCHARGED
30 minute winter	PIC5	19	149.502	0.402	9.1	0.4998	0.0000	SURCHARGED
30 minute winter	F1	32	147.266	0.020	0.5	0.0000	0.0000	OK
30 minute winter	S1A	32	147.293	0.042	0.5	0.0473	0.0000	OK
30 minute winter	Swale Inlet	21	149.192	0.182	37.8	0.2829	0.0000	OK
30 minute winter	Swale Outlet	25	148.905	0.545	65.9	0.8114	0.0000	SURCHARGED
30 minute winter	S1B	32	147.297	0.040	0.5	0.0456	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	RE1	2.000	PIC1	9.8	1.278	1.255	0.0961	
30 minute winter	RE3	4.000	PIC3	9.0	1.299	1.390	0.0971	
30 minute winter	RE4	5.000	PIC4	8.8	1.119	1.127	0.0739	
30 minute winter	RE5	1.000	PIC5	6.8	0.986	0.869	0.1178	
30 minute winter	RE6	3.000	S5	11.2	1.448	1.073	0.1197	
30 minute winter	RE9	6.000	S3	3.1	1.494	0.207	0.0316	
30 minute winter	S1	Hydro-Brake®	S1B	0.5				
30 minute winter	S3	2.004	S1	-63.7	-1.604	-1.156	0.3536	
30 minute winter	S4	2.003	S3	-71.1	-0.136	-0.013	169.9075	
30 minute winter	S5	2.002	S4	23.3	2.983	0.156	0.5255	
30 minute winter	PIC1	2.001	S5	12.2	1.966	0.823	0.0452	
30 minute winter	PIC3	4.001	S4	11.4	2.623	0.547	0.0262	
30 minute winter	PIC4	5.001	S4	10.8	1.404	1.093	0.1092	
30 minute winter	PIC5	1.001	Swale Inlet	8.8	1.121	1.759	0.1025	
30 minute winter	S1A	1.006	F1	0.5	0.201	0.192	0.0078	58.9
30 minute winter	Swale Inlet	1.002	Swale Outlet	37.2	0.308	0.069	16.6685	
30 minute winter	Swale Outlet	1.003	S1	49.1	0.781	2.590	1.6413	
30 minute winter	S1B	1.005	S1A	0.5	0.166	0.061	0.0148	

Results for 100 year +40% CC 60 minute summer. 2060 minute analysis at 1 minute timestep. Mass balance: 99.68%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	RE1	33	150.119	0.169	9.0	0.3100	0.0000	SURCHARGED
60 minute summer	RE3	33	149.975	0.225	8.6	0.4051	0.0000	SURCHARGED
60 minute summer	RE4	33	149.531	0.131	8.6	0.2361	0.0000	SURCHARGED
60 minute summer	RE5	34	149.571	0.171	6.9	0.2851	0.0000	SURCHARGED
60 minute summer	RE6	32	149.836	0.086	10.3	0.1669	0.0000	OK
60 minute summer	RE9	32	149.029	0.029	2.6	0.0380	0.0000	OK
60 minute summer	S1	85	147.997	0.732	58.3	1.2194	0.0000	SURCHARGED
60 minute summer	S3	85	147.997	0.680	116.0	0.8854	0.0000	SURCHARGED
60 minute summer	S4	92	147.997	0.610	88.5	0.0000	0.0000	OK
60 minute summer	S5	32	149.231	0.056	20.5	0.0633	0.0000	OK
60 minute summer	PIC1	33	149.798	0.068	10.3	0.0848	0.0000	OK
60 minute summer	PIC3	33	149.620	0.050	9.6	0.0633	0.0000	OK
60 minute summer	PIC4	33	149.335	0.090	10.3	0.1096	0.0000	OK
60 minute summer	PIC5	34	149.408	0.308	7.9	0.3831	0.0000	SURCHARGED
60 minute summer	F1	87	147.267	0.021	0.5	0.0000	0.0000	OK
60 minute summer	S1A	87	147.293	0.042	0.5	0.0478	0.0000	OK
60 minute summer	Swale Inlet	36	149.176	0.166	31.4	0.2589	0.0000	OK
60 minute summer	Swale Outlet	40	148.825	0.465	54.8	0.6921	0.0000	SURCHARGED
60 minute summer	S1B	90	147.298	0.041	0.5	0.0462	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	RE1	2.000	PIC1	8.3	1.182	1.063	0.0900	
60 minute summer	RE3	4.000	PIC3	7.6	1.138	1.185	0.0929	
60 minute summer	RE4	5.000	PIC4	8.1	1.072	1.047	0.0718	
60 minute summer	RE5	1.000	PIC5	5.8	0.963	0.749	0.1178	
60 minute summer	RE6	3.000	S5	10.3	1.459	0.986	0.1137	
60 minute summer	RE9	6.000	S3	2.6	1.423	0.173	0.0279	
60 minute summer	S1	Hydro-Brake®	S1B	0.5				
60 minute summer	S3	2.004	S1	-57.1	-1.436	-1.036	0.3536	
60 minute summer	S4	2.003	S3	-48.6	-0.072	-0.009	189.0247	
60 minute summer	S5	2.002	S4	20.4	2.347	0.136	0.5181	
60 minute summer	PIC1	2.001	S5	10.3	1.921	0.696	0.0392	
60 minute summer	PIC3	4.001	S4	9.7	2.526	0.464	0.0231	
60 minute summer	PIC4	5.001	S4	10.2	1.411	1.029	0.1062	
60 minute summer	PIC5	1.001	Swale Inlet	7.6	0.969	1.520	0.1025	
60 minute summer	S1A	1.006	F1	0.5	0.203	0.197	0.0079	62.5
60 minute summer	Swale Inlet	1.002	Swale Outlet	31.0	0.286	0.058	12.9428	
60 minute summer	Swale Outlet	1.003	S1	44.0	0.712	2.320	1.5990	
60 minute summer	S1B	1.005	S1A	0.5	0.166	0.062	0.0151	

Results for 100 year +40% CC 60 minute winter. 2060 minute analysis at 1 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	RE1	32	150.031	0.081	7.0	0.1487	0.0000	OK
60 minute winter	RE3	34	149.865	0.115	6.6	0.2064	0.0000	SURCHARGED
60 minute winter	RE4	32	149.477	0.077	6.6	0.1379	0.0000	OK
60 minute winter	RE5	33	149.465	0.065	5.3	0.1085	0.0000	OK
60 minute winter	RE6	32	149.819	0.069	8.0	0.1336	0.0000	OK
60 minute winter	RE9	32	149.025	0.025	2.0	0.0332	0.0000	OK
60 minute winter	S1	80	148.077	0.812	56.2	1.3515	0.0000	SURCHARGED
60 minute winter	S3	80	148.076	0.759	99.6	0.9886	0.0000	SURCHARGED
60 minute winter	S4	85	148.077	0.690	73.5	0.0000	0.0000	OK
60 minute winter	S5	32	149.226	0.051	16.7	0.0572	0.0000	OK
60 minute winter	PIC1	32	149.790	0.060	8.7	0.0752	0.0000	OK
60 minute winter	PIC3	31	149.615	0.045	8.1	0.0570	0.0000	OK
60 minute winter	PIC4	32	149.317	0.072	8.3	0.0884	0.0000	OK
60 minute winter	PIC5	34	149.350	0.250	6.9	0.3107	0.0000	SURCHARGED
60 minute winter	F1	85	147.267	0.021	0.6	0.0000	0.0000	OK
60 minute winter	S1A	89	147.294	0.043	0.6	0.0488	0.0000	OK
60 minute winter	Swale Inlet	36	149.168	0.158	28.2	0.2463	0.0000	OK
60 minute winter	Swale Outlet	40	148.804	0.444	49.5	0.6613	0.0000	SURCHARGED
60 minute winter	S1B	86	147.299	0.042	0.6	0.0472	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	RE1	2.000	PIC1	7.0	1.184	0.900	0.0783	
60 minute winter	RE3	4.000	PIC3	6.4	1.127	0.994	0.0884	
60 minute winter	RE4	5.000	PIC4	6.6	1.057	0.850	0.0590	
60 minute winter	RE5	1.000	PIC5	5.2	0.953	0.665	0.0996	
60 minute winter	RE6	3.000	S5	8.0	1.423	0.767	0.0860	
60 minute winter	RE9	6.000	S3	2.0	1.320	0.133	0.0231	
60 minute winter	S1	Hydro-Brake®	S1B	0.6				
60 minute winter	S3	2.004	S1	-55.1	-1.386	-1.000	0.3536	
60 minute winter	S4	2.003	S3	-47.9	-0.083	-0.009	212.3146	
60 minute winter	S5	2.002	S4	16.7	2.446	0.111	0.5069	
60 minute winter	PIC1	2.001	S5	8.7	1.859	0.588	0.0342	
60 minute winter	PIC3	4.001	S4	8.1	2.418	0.389	0.0202	
60 minute winter	PIC4	5.001	S4	8.3	1.391	0.837	0.0840	
60 minute winter	PIC5	1.001	Swale Inlet	6.7	0.857	1.345	0.1025	
60 minute winter	S1A	1.006	F1	0.6	0.207	0.206	0.0081	65.6
60 minute winter	Swale Inlet	1.002	Swale Outlet	28.0	0.266	0.052	11.9803	
60 minute winter	Swale Outlet	1.003	S1	42.6	0.693	2.248	1.5875	
60 minute winter	S1B	1.005	S1A	0.6	0.167	0.065	0.0155	

Results for 100 year +40% CC 120 minute summer. 2120 minute analysis at 2 minute timestep. Mass balance: 99.63%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	RE1	62	150.019	0.069	5.8	0.1265	0.0000	OK
120 minute summer	RE3	62	149.829	0.079	5.6	0.1420	0.0000	OK
120 minute summer	RE4	62	149.467	0.067	5.6	0.1200	0.0000	OK
120 minute summer	RE5	62	149.454	0.054	4.4	0.0891	0.0000	OK
120 minute summer	RE6	62	149.811	0.060	6.7	0.1168	0.0000	OK
120 minute summer	RE9	62	149.023	0.023	1.7	0.0305	0.0000	OK
120 minute summer	S1	144	148.144	0.878	48.9	1.4627	0.0000	SURCHARGED
120 minute summer	S3	144	148.143	0.826	84.1	1.0758	0.0000	SURCHARGED
120 minute summer	S4	142	148.143	0.756	60.3	0.0000	0.0000	OK
120 minute summer	S5	62	149.221	0.046	13.7	0.0518	0.0000	OK
120 minute summer	PIC1	62	149.783	0.053	7.1	0.0659	0.0000	OK
120 minute summer	PIC3	62	149.611	0.041	6.9	0.0518	0.0000	OK
120 minute summer	PIC4	62	149.308	0.063	6.9	0.0769	0.0000	OK
120 minute summer	PIC5	64	149.277	0.177	5.8	0.2200	0.0000	SURCHARGED
120 minute summer	F1	146	147.267	0.021	0.6	0.0000	0.0000	OK
120 minute summer	S1A	146	147.295	0.044	0.6	0.0496	0.0000	OK
120 minute summer	Swale Inlet	66	149.153	0.143	23.0	0.2221	0.0000	OK
120 minute summer	Swale Outlet	70	148.717	0.357	40.2	0.5319	0.0000	SURCHARGED
120 minute summer	S1B	140	147.299	0.042	0.6	0.0480	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	RE1	2.000	PIC1	5.7	1.153	0.739	0.0665	
120 minute summer	RE3	4.000	PIC3	5.5	1.121	0.853	0.0764	
120 minute summer	RE4	5.000	PIC4	5.5	1.031	0.713	0.0507	
120 minute summer	RE5	1.000	PIC5	4.4	0.949	0.560	0.0910	
120 minute summer	RE6	3.000	S5	6.6	1.370	0.634	0.0739	
120 minute summer	RE9	6.000	S3	1.7	1.257	0.112	0.0435	
120 minute summer	S1	Hydro-Brake®	S1B	0.6				
120 minute summer	S3	2.004	S1	-47.7	-1.198	-0.864	0.3536	
120 minute summer	S4	2.003	S3	-34.5	-0.047	-0.006	232.2641	
120 minute summer	S5	2.002	S4	13.7	2.058	0.091	0.4974	
120 minute summer	PIC1	2.001	S5	7.1	1.779	0.481	0.0293	
120 minute summer	PIC3	4.001	S4	6.9	2.319	0.330	0.0179	
120 minute summer	PIC4	5.001	S4	6.9	1.343	0.692	0.0719	
120 minute summer	PIC5	1.001	Swale Inlet	5.5	0.709	1.112	0.1025	
120 minute summer	S1A	1.006	F1	0.6	0.209	0.214	0.0083	70.0
120 minute summer	Swale Inlet	1.002	Swale Outlet	22.8	0.254	0.043	8.6072	
120 minute summer	Swale Outlet	1.003	S1	36.6	0.609	1.929	1.5339	
120 minute summer	S1B	1.005	S1A	0.6	0.166	0.068	0.0159	

Results for 100 year +40% CC 120 minute winter. 2120 minute analysis at 2 minute timestep. Mass balance: 99.59%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	RE1	62	150.007	0.057	4.3	0.1040	0.0000	OK
120 minute winter	RE3	64	149.814	0.064	4.1	0.1144	0.0000	OK
120 minute winter	RE4	62	149.454	0.054	4.1	0.0979	0.0000	OK
120 minute winter	RE5	60	149.447	0.047	3.3	0.0776	0.0000	OK
120 minute winter	RE6	62	149.801	0.050	5.0	0.0975	0.0000	OK
120 minute winter	RE9	62	149.019	0.019	1.2	0.0257	0.0000	OK
120 minute winter	S1	138	148.241	0.976	42.5	1.6257	0.0000	SURCHARGED
120 minute winter	S3	138	148.241	0.924	69.3	1.2033	0.0000	SURCHARGED
120 minute winter	S4	140	148.241	0.854	49.4	0.0000	0.0000	SURCHARGED
120 minute winter	S5	62	149.215	0.040	10.3	0.0451	0.0000	OK
120 minute winter	PIC1	64	149.774	0.044	5.3	0.0551	0.0000	OK
120 minute winter	PIC3	64	149.605	0.035	5.1	0.0440	0.0000	OK
120 minute winter	PIC4	64	149.297	0.052	5.1	0.0635	0.0000	OK
120 minute winter	PIC5	64	149.212	0.112	4.3	0.1387	0.0000	SURCHARGED
120 minute winter	F1	140	147.268	0.022	0.6	0.0000	0.0000	OK
120 minute winter	S1A	140	147.296	0.045	0.6	0.0505	0.0000	OK
120 minute winter	Swale Inlet	66	149.138	0.128	18.4	0.1991	0.0000	OK
120 minute winter	Swale Outlet	68	148.672	0.312	32.4	0.4644	0.0000	SURCHARGED
120 minute winter	S1B	142	147.300	0.043	0.6	0.0490	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	RE1	2.000	PIC1	4.3	1.089	0.553	0.0528	
120 minute winter	RE3	4.000	PIC3	4.1	1.069	0.636	0.0607	
120 minute winter	RE4	5.000	PIC4	4.1	0.969	0.528	0.0399	
120 minute winter	RE5	1.000	PIC5	3.3	0.935	0.424	0.0641	
120 minute winter	RE6	3.000	S5	5.0	1.285	0.478	0.0593	
120 minute winter	RE9	6.000	S3	1.2	1.139	0.080	0.0620	
120 minute winter	S1	Hydro-Brake®	S1B	0.6				
120 minute winter	S3	2.004	S1	-41.4	-1.041	-0.751	0.3536	
120 minute winter	S4	2.003	S3	-31.6	-0.051	-0.006	261.0166	
120 minute winter	S5	2.002	S4	10.3	2.053	0.069	0.4859	
120 minute winter	PIC1	2.001	S5	5.3	1.660	0.359	0.0234	
120 minute winter	PIC3	4.001	S4	5.1	2.145	0.245	0.0144	
120 minute winter	PIC4	5.001	S4	5.1	1.257	0.515	0.0572	
120 minute winter	PIC5	1.001	Swale Inlet	4.3	0.545	0.854	0.1025	
120 minute winter	S1A	1.006	F1	0.6	0.213	0.224	0.0086	73.5
120 minute winter	Swale Inlet	1.002	Swale Outlet	18.3	0.235	0.034	6.9753	
120 minute winter	Swale Outlet	1.003	S1	31.8	0.562	1.674	1.4874	
120 minute winter	S1B	1.005	S1A	0.6	0.151	0.071	0.0164	

Results for 100 year +40% CC 180 minute summer. 2180 minute analysis at 4 minute timestep. Mass balance: 99.62%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute summer	RE1	92	150.007	0.057	4.4	0.1047	0.0000	OK
180 minute summer	RE3	92	149.814	0.064	4.2	0.1153	0.0000	OK
180 minute summer	RE4	92	149.455	0.055	4.2	0.0989	0.0000	OK
180 minute summer	RE5	92	149.447	0.047	3.4	0.0786	0.0000	OK
180 minute summer	RE6	92	149.801	0.051	5.1	0.0982	0.0000	OK
180 minute summer	RE9	92	149.020	0.020	1.3	0.0266	0.0000	OK
180 minute summer	S1	204	148.224	0.959	39.0	1.5966	0.0000	SURCHARGED
180 minute summer	S3	200	148.224	0.907	65.6	1.1811	0.0000	SURCHARGED
180 minute summer	S4	200	148.225	0.838	42.8	0.0000	0.0000	SURCHARGED
180 minute summer	S5	92	149.215	0.040	10.4	0.0454	0.0000	OK
180 minute summer	PIC1	92	149.775	0.045	5.4	0.0558	0.0000	OK
180 minute summer	PIC3	92	149.605	0.035	5.2	0.0445	0.0000	OK
180 minute summer	PIC4	92	149.298	0.053	5.3	0.0644	0.0000	OK
180 minute summer	PIC5	96	149.195	0.095	4.4	0.1185	0.0000	OK
180 minute summer	F1	204	147.268	0.022	0.6	0.0000	0.0000	OK
180 minute summer	S1A	204	147.296	0.045	0.6	0.0504	0.0000	OK
180 minute summer	Swale Inlet	96	149.134	0.124	17.5	0.1936	0.0000	OK
180 minute summer	Swale Outlet	100	148.659	0.299	30.8	0.4455	0.0000	OK
180 minute summer	S1B	204	147.300	0.043	0.6	0.0489	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute summer	RE1	2.000	PIC1	4.3	1.088	0.560	0.0535	
180 minute summer	RE3	4.000	PIC3	4.1	1.068	0.643	0.0614	
180 minute summer	RE4	5.000	PIC4	4.2	0.970	0.536	0.0405	
180 minute summer	RE5	1.000	PIC5	3.3	0.939	0.428	0.0536	
180 minute summer	RE6	3.000	S5	5.0	1.288	0.483	0.0599	
180 minute summer	RE9	6.000	S3	1.3	1.162	0.086	0.0611	
180 minute summer	S1	Hydro-Brake®	S1B	0.6				
180 minute summer	S3	2.004	S1	-38.0	-0.957	-0.690	0.3536	
180 minute summer	S4	2.003	S3	-27.2	-0.035	-0.005	256.4392	
180 minute summer	S5	2.002	S4	10.4	1.884	0.070	0.4863	
180 minute summer	PIC1	2.001	S5	5.4	1.668	0.366	0.0238	
180 minute summer	PIC3	4.001	S4	5.2	2.158	0.251	0.0146	
180 minute summer	PIC4	5.001	S4	5.2	1.263	0.525	0.0581	
180 minute summer	PIC5	1.001	Swale Inlet	4.1	0.532	0.830	0.1017	
180 minute summer	S1A	1.006	F1	0.6	0.213	0.222	0.0085	74.8
180 minute summer	Swale Inlet	1.002	Swale Outlet	17.3	0.238	0.032	6.5065	
180 minute summer	Swale Outlet	1.003	S1	29.6	0.547	1.562	1.4660	
180 minute summer	S1B	1.005	S1A	0.6	0.157	0.071	0.0163	

Results for 100 year +40% CC 180 minute winter. 2180 minute analysis at 4 minute timestep. Mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	RE1	92	149.997	0.047	3.2	0.0868	0.0000	OK
180 minute winter	RE3	92	149.803	0.053	3.1	0.0959	0.0000	OK
180 minute winter	RE4	92	149.446	0.046	3.1	0.0824	0.0000	OK
180 minute winter	RE5	92	149.440	0.040	2.5	0.0663	0.0000	OK
180 minute winter	RE6	92	149.792	0.042	3.7	0.0817	0.0000	OK
180 minute winter	RE9	92	149.017	0.017	0.9	0.0223	0.0000	OK
180 minute winter	S1	192	148.332	1.067	32.2	1.8545	0.0000	SURCHARGED
180 minute winter	S3	200	148.331	1.014	52.3	1.3203	0.0000	SURCHARGED
180 minute winter	S4	200	148.331	0.944	37.3	0.0000	0.0000	SURCHARGED
180 minute winter	S5	92	149.210	0.035	7.7	0.0391	0.0000	OK
180 minute winter	PIC1	92	149.767	0.037	4.0	0.0467	0.0000	OK
180 minute winter	PIC3	92	149.600	0.030	3.9	0.0380	0.0000	OK
180 minute winter	PIC4	92	149.289	0.044	3.9	0.0541	0.0000	OK
180 minute winter	PIC5	92	149.159	0.059	3.3	0.0731	0.0000	OK
180 minute winter	F1	208	147.268	0.022	0.6	0.0000	0.0000	OK
180 minute winter	S1A	208	147.297	0.045	0.6	0.0514	0.0000	OK
180 minute winter	Swale Inlet	96	149.120	0.110	13.7	0.1715	0.0000	OK
180 minute winter	Swale Outlet	100	148.625	0.265	24.3	0.3942	0.0000	OK
180 minute winter	S1B	204	147.301	0.044	0.6	0.0500	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	RE1	2.000	PIC1	3.2	1.012	0.411	0.0422	
180 minute winter	RE3	4.000	PIC3	3.1	0.999	0.479	0.0492	
180 minute winter	RE4	5.000	PIC4	3.1	0.905	0.398	0.0323	
180 minute winter	RE5	1.000	PIC5	2.5	0.871	0.319	0.0430	
180 minute winter	RE6	3.000	S5	3.7	1.193	0.354	0.0474	
180 minute winter	RE9	6.000	S3	0.9	1.046	0.060	0.0628	
180 minute winter	S1	Hydro-Brake®	S1B	0.6				
180 minute winter	S3	2.004	S1	-31.3	-0.786	-0.567	0.3536	
180 minute winter	S4	2.003	S3	-22.7	0.033	-0.004	287.6835	
180 minute winter	S5	2.002	S4	7.7	1.849	0.051	0.4762	
180 minute winter	PIC1	2.001	S5	4.0	1.544	0.270	0.0189	
180 minute winter	PIC3	4.001	S4	3.9	1.992	0.187	0.0118	
180 minute winter	PIC4	5.001	S4	3.9	1.174	0.391	0.0465	
180 minute winter	PIC5	1.001	Swale Inlet	3.3	0.467	0.656	0.0826	
180 minute winter	S1A	1.006	F1	0.6	0.216	0.233	0.0088	78.5
180 minute winter	Swale Inlet	1.002	Swale Outlet	13.7	0.221	0.026	5.3708	
180 minute winter	Swale Outlet	1.003	S1	24.0	0.505	1.264	1.3399	
180 minute winter	S1B	1.005	S1A	0.6	0.115	0.074	0.0168	

Results for 100 year +40% CC 240 minute summer. 2240 minute analysis at 4 minute timestep. Mass balance: 99.60%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	RE1	124	150.000	0.050	3.5	0.0917	0.0000	OK
240 minute summer	RE3	124	149.806	0.056	3.3	0.0999	0.0000	OK
240 minute summer	RE4	124	149.448	0.048	3.3	0.0857	0.0000	OK
240 minute summer	RE5	124	149.441	0.041	2.6	0.0679	0.0000	OK
240 minute summer	RE6	124	149.794	0.044	4.0	0.0856	0.0000	OK
240 minute summer	RE9	124	149.018	0.018	1.0	0.0235	0.0000	OK
240 minute summer	S1	260	148.281	1.016	32.8	1.6909	0.0000	SURCHARGED
240 minute summer	S3	260	148.281	0.963	54.7	1.2545	0.0000	SURCHARGED
240 minute summer	S4	256	148.280	0.893	37.1	0.0000	0.0000	SURCHARGED
240 minute summer	S5	124	149.211	0.036	8.3	0.0406	0.0000	OK
240 minute summer	PIC1	124	149.769	0.039	4.3	0.0488	0.0000	OK
240 minute summer	PIC3	124	149.601	0.031	4.1	0.0391	0.0000	OK
240 minute summer	PIC4	124	149.291	0.046	4.1	0.0558	0.0000	OK
240 minute summer	PIC5	124	149.160	0.060	3.4	0.0749	0.0000	OK
240 minute summer	F1	260	147.268	0.022	0.6	0.0000	0.0000	OK
240 minute summer	S1A	260	147.296	0.045	0.6	0.0510	0.0000	OK
240 minute summer	Swale Inlet	128	149.122	0.112	14.4	0.1745	0.0000	OK
240 minute summer	Swale Outlet	128	148.629	0.269	25.2	0.4001	0.0000	OK
240 minute summer	S1B	260	147.301	0.044	0.6	0.0495	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	RE1	2.000	PIC1	3.5	1.039	0.450	0.0451	
240 minute summer	RE3	4.000	PIC3	3.3	1.018	0.512	0.0516	
240 minute summer	RE4	5.000	PIC4	3.3	0.922	0.425	0.0338	
240 minute summer	RE5	1.000	PIC5	2.6	0.882	0.333	0.0444	
240 minute summer	RE6	3.000	S5	4.0	1.218	0.384	0.0503	
240 minute summer	RE9	6.000	S3	1.0	1.079	0.067	0.0613	
240 minute summer	S1	Hydro-Brake®	S1B	0.6				
240 minute summer	S3	2.004	S1	-31.9	-0.803	-0.579	0.3536	
240 minute summer	S4	2.003	S3	-20.8	0.032	-0.004	272.7221	
240 minute summer	S5	2.002	S4	8.3	1.756	0.055	0.4786	
240 minute summer	PIC1	2.001	S5	4.3	1.576	0.291	0.0200	
240 minute summer	PIC3	4.001	S4	4.1	2.022	0.197	0.0123	
240 minute summer	PIC4	5.001	S4	4.1	1.191	0.414	0.0485	
240 minute summer	PIC5	1.001	Swale Inlet	3.4	0.480	0.682	0.0836	
240 minute summer	S1A	1.006	F1	0.6	0.215	0.228	0.0087	78.6
240 minute summer	Swale Inlet	1.002	Swale Outlet	14.2	0.226	0.026	5.5156	
240 minute summer	Swale Outlet	1.003	S1	24.6	0.510	1.298	1.3576	
240 minute summer	S1B	1.005	S1A	0.6	0.144	0.072	0.0166	

Results for 100 year +40% CC 240 minute winter. 2240 minute analysis at 4 minute timestep. Mass balance: 99.53%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute winter	RE1	124	149.992	0.042	2.6	0.0773	0.0000	OK
240 minute winter	RE3	124	149.797	0.047	2.5	0.0849	0.0000	OK
240 minute winter	RE4	124	149.441	0.041	2.5	0.0730	0.0000	OK
240 minute winter	RE5	124	149.435	0.035	2.0	0.0587	0.0000	OK
240 minute winter	RE6	120	149.787	0.037	2.9	0.0714	0.0000	OK
240 minute winter	RE9	120	149.015	0.015	0.7	0.0198	0.0000	OK
240 minute winter	S1	252	148.394	1.129	26.2	2.3573	0.0000	SURCHARGED
240 minute winter	S3	252	148.394	1.077	42.3	1.4017	0.0000	SURCHARGED
240 minute winter	S4	252	148.394	1.007	32.0	0.0000	0.0000	SURCHARGED
240 minute winter	S5	124	149.206	0.031	6.1	0.0350	0.0000	OK
240 minute winter	PIC1	124	149.763	0.033	3.2	0.0414	0.0000	OK
240 minute winter	PIC3	124	149.597	0.027	3.1	0.0338	0.0000	OK
240 minute winter	PIC4	124	149.284	0.039	3.1	0.0477	0.0000	OK
240 minute winter	PIC5	124	149.151	0.051	2.6	0.0634	0.0000	OK
240 minute winter	F1	252	147.269	0.023	0.7	0.0000	0.0000	OK
240 minute winter	S1A	252	147.297	0.046	0.7	0.0520	0.0000	OK
240 minute winter	Swale Inlet	128	149.108	0.098	11.1	0.1531	0.0000	OK
240 minute winter	Swale Outlet	128	148.596	0.236	19.5	0.3516	0.0000	OK
240 minute winter	S1B	252	147.302	0.045	0.7	0.0506	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute winter	RE1	2.000	PIC1	2.6	0.966	0.335	0.0361	
240 minute winter	RE3	4.000	PIC3	2.5	0.951	0.388	0.0420	
240 minute winter	RE4	5.000	PIC4	2.5	0.862	0.322	0.0274	
240 minute winter	RE5	1.000	PIC5	2.0	0.822	0.256	0.0366	
240 minute winter	RE6	3.000	S5	2.9	1.120	0.278	0.0396	
240 minute winter	RE9	6.000	S3	0.7	0.972	0.047	0.0634	
240 minute winter	S1	Hydro-Brake®	S1B	0.7				
240 minute winter	S3	2.004	S1	-25.4	-0.640	-0.461	0.3536	
240 minute winter	S4	2.003	S3	-20.0	0.034	-0.004	306.0614	
240 minute winter	S5	2.002	S4	6.1	1.695	0.041	0.4700	
240 minute winter	PIC1	2.001	S5	3.2	1.458	0.217	0.0161	
240 minute winter	PIC3	4.001	S4	3.1	1.872	0.149	0.0100	
240 minute winter	PIC4	5.001	S4	3.1	1.107	0.313	0.0395	
240 minute winter	PIC5	1.001	Swale Inlet	2.6	0.416	0.521	0.0774	
240 minute winter	S1A	1.006	F1	0.7	0.218	0.239	0.0089	82.5
240 minute winter	Swale Inlet	1.002	Swale Outlet	11.0	0.210	0.021	4.4949	
240 minute winter	Swale Outlet	1.003	S1	19.4	0.468	1.023	1.1955	
240 minute winter	S1B	1.005	S1A	0.7	0.116	0.076	0.0171	

Results for 100 year +40% CC 360 minute summer. 2360 minute analysis at 8 minute timestep. Mass balance: 99.55%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	RE1	184	149.992	0.042	2.6	0.0770	0.0000	OK
360 minute summer	RE3	184	149.796	0.046	2.4	0.0826	0.0000	OK
360 minute summer	RE4	184	149.440	0.040	2.4	0.0711	0.0000	OK
360 minute summer	RE5	184	149.435	0.035	2.0	0.0585	0.0000	OK
360 minute summer	RE6	184	149.787	0.037	2.9	0.0712	0.0000	OK
360 minute summer	RE9	184	149.015	0.015	0.7	0.0197	0.0000	OK
360 minute summer	S1	376	148.350	1.085	24.3	1.9650	0.0000	SURCHARGED
360 minute summer	S3	376	148.350	1.033	40.2	1.3446	0.0000	SURCHARGED
360 minute summer	S4	376	148.350	0.963	26.2	0.0000	0.0000	SURCHARGED
360 minute summer	S5	184	149.206	0.031	6.0	0.0348	0.0000	OK
360 minute summer	PIC1	184	149.763	0.033	3.2	0.0412	0.0000	OK
360 minute summer	PIC3	184	149.596	0.026	3.0	0.0331	0.0000	OK
360 minute summer	PIC4	184	149.283	0.038	3.0	0.0466	0.0000	OK
360 minute summer	PIC5	184	149.151	0.051	2.6	0.0629	0.0000	OK
360 minute summer	F1	384	147.268	0.022	0.6	0.0000	0.0000	OK
360 minute summer	S1A	384	147.297	0.046	0.6	0.0516	0.0000	OK
360 minute summer	Swale Inlet	192	149.105	0.095	10.6	0.1476	0.0000	OK
360 minute summer	Swale Outlet	192	148.589	0.229	18.3	0.3408	0.0000	OK
360 minute summer	S1B	376	147.301	0.044	0.6	0.0501	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute summer	RE1	2.000	PIC1	2.6	0.964	0.332	0.0359	
360 minute summer	RE3	4.000	PIC3	2.4	0.937	0.369	0.0406	
360 minute summer	RE4	5.000	PIC4	2.4	0.850	0.307	0.0265	
360 minute summer	RE5	1.000	PIC5	2.0	0.820	0.254	0.0364	
360 minute summer	RE6	3.000	S5	2.9	1.117	0.276	0.0394	
360 minute summer	RE9	6.000	S3	0.7	0.970	0.046	0.0620	
360 minute summer	S1	Hydro-Brake®	S1B	0.6				
360 minute summer	S3	2.004	S1	-23.5	-0.592	-0.427	0.3536	
360 minute summer	S4	2.003	S3	-15.7	0.027	-0.003	293.1912	
360 minute summer	S5	2.002	S4	6.0	1.564	0.040	0.4697	
360 minute summer	PIC1	2.001	S5	3.2	1.454	0.214	0.0160	
360 minute summer	PIC3	4.001	S4	3.0	1.850	0.143	0.0097	
360 minute summer	PIC4	5.001	S4	3.0	1.094	0.300	0.0382	
360 minute summer	PIC5	1.001	Swale Inlet	2.6	0.421	0.514	0.0763	
360 minute summer	S1A	1.006	F1	0.6	0.217	0.235	0.0088	84.7
360 minute summer	Swale Inlet	1.002	Swale Outlet	10.3	0.212	0.019	4.2744	
360 minute summer	Swale Outlet	1.003	S1	18.3	0.458	0.963	1.1551	
360 minute summer	S1B	1.005	S1A	0.6	0.115	0.075	0.0169	

Results for 100 year +40% CC 360 minute winter. 2360 minute analysis at 8 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	RE1	184	149.986	0.036	1.9	0.0651	0.0000	OK
360 minute winter	RE3	184	149.789	0.039	1.8	0.0707	0.0000	OK
360 minute winter	RE4	184	149.434	0.034	1.8	0.0609	0.0000	OK
360 minute winter	RE5	184	149.429	0.029	1.4	0.0486	0.0000	OK
360 minute winter	RE6	184	149.781	0.031	2.1	0.0601	0.0000	OK
360 minute winter	RE9	168	149.013	0.013	0.5	0.0168	0.0000	OK
360 minute winter	S1	368	148.464	1.199	18.9	3.3448	0.0000	SURCHARGED
360 minute winter	S3	368	148.464	1.147	30.5	1.4937	0.0000	SURCHARGED
360 minute winter	S4	368	148.464	1.077	22.1	0.0000	0.0000	SURCHARGED
360 minute winter	S5	184	149.202	0.026	4.4	0.0299	0.0000	OK
360 minute winter	PIC1	184	149.758	0.028	2.3	0.0346	0.0000	OK
360 minute winter	PIC3	184	149.592	0.022	2.2	0.0283	0.0000	OK
360 minute winter	PIC4	184	149.277	0.032	2.2	0.0396	0.0000	OK
360 minute winter	PIC5	184	149.141	0.041	1.8	0.0514	0.0000	OK
360 minute winter	F1	368	147.269	0.023	0.7	0.0000	0.0000	OK
360 minute winter	S1A	368	147.298	0.047	0.7	0.0526	0.0000	OK
360 minute winter	Swale Inlet	192	149.092	0.082	7.9	0.1280	0.0000	OK
360 minute winter	Swale Outlet	192	148.560	0.200	14.0	0.2976	0.0000	OK
360 minute winter	S1B	368	147.302	0.045	0.7	0.0512	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	RE1	2.000	PIC1	1.9	0.894	0.244	0.0284	
360 minute winter	RE3	4.000	PIC3	1.8	0.874	0.278	0.0329	
360 minute winter	RE4	5.000	PIC4	1.8	0.794	0.231	0.0213	
360 minute winter	RE5	1.000	PIC5	1.4	0.746	0.179	0.0283	
360 minute winter	RE6	3.000	S5	2.1	1.026	0.201	0.0313	
360 minute winter	RE9	6.000	S3	0.5	0.879	0.033	0.0628	
360 minute winter	S1	Hydro-Brake®	S1B	0.7				
360 minute winter	S3	2.004	S1	-18.1	-0.455	-0.328	0.3536	
360 minute winter	S4	2.003	S3	-13.8	0.029	-0.003	326.8219	
360 minute winter	S5	2.002	S4	4.4	1.528	0.029	0.4627	
360 minute winter	PIC1	2.001	S5	2.3	1.333	0.155	0.0126	
360 minute winter	PIC3	4.001	S4	2.2	1.698	0.105	0.0078	
360 minute winter	PIC4	5.001	S4	2.2	1.007	0.221	0.0307	
360 minute winter	PIC5	1.001	Swale Inlet	1.8	0.358	0.361	0.0652	
360 minute winter	S1A	1.006	F1	0.7	0.220	0.246	0.0091	88.7
360 minute winter	Swale Inlet	1.002	Swale Outlet	7.9	0.193	0.015	3.4610	
360 minute winter	Swale Outlet	1.003	S1	14.0	0.416	0.736	0.9863	
360 minute winter	S1B	1.005	S1A	0.7	0.120	0.078	0.0174	

Results for 100 year +40% CC 480 minute summer. 2480 minute analysis at 8 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	RE1	248	149.987	0.037	2.0	0.0668	0.0000	OK
480 minute summer	RE3	248	149.791	0.040	1.9	0.0728	0.0000	OK
480 minute summer	RE4	248	149.435	0.035	1.9	0.0626	0.0000	OK
480 minute summer	RE5	248	149.430	0.030	1.5	0.0504	0.0000	OK
480 minute summer	RE6	248	149.782	0.032	2.2	0.0616	0.0000	OK
480 minute summer	RE9	248	149.014	0.014	0.6	0.0183	0.0000	OK
480 minute summer	S1	496	148.386	1.120	19.9	2.2724	0.0000	SURCHARGED
480 minute summer	S3	496	148.386	1.069	32.4	1.3912	0.0000	SURCHARGED
480 minute summer	S4	496	148.386	0.999	22.9	0.0000	0.0000	SURCHARGED
480 minute summer	S5	248	149.202	0.027	4.7	0.0309	0.0000	OK
480 minute summer	PIC1	248	149.759	0.029	2.5	0.0363	0.0000	OK
480 minute summer	PIC3	248	149.594	0.023	2.4	0.0296	0.0000	OK
480 minute summer	PIC4	248	149.279	0.034	2.4	0.0416	0.0000	OK
480 minute summer	PIC5	248	149.144	0.044	2.0	0.0545	0.0000	OK
480 minute summer	F1	496	147.269	0.023	0.7	0.0000	0.0000	OK
480 minute summer	S1A	496	147.297	0.046	0.7	0.0519	0.0000	OK
480 minute summer	Swale Inlet	248	149.096	0.086	8.6	0.1332	0.0000	OK
480 minute summer	Swale Outlet	248	148.564	0.204	15.1	0.3043	0.0000	OK
480 minute summer	S1B	496	147.302	0.045	0.7	0.0505	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute summer	RE1	2.000	PIC1	2.0	0.899	0.257	0.0298	
480 minute summer	RE3	4.000	PIC3	1.9	0.882	0.295	0.0345	
480 minute summer	RE4	5.000	PIC4	1.9	0.798	0.245	0.0225	
480 minute summer	RE5	1.000	PIC5	1.5	0.760	0.192	0.0297	
480 minute summer	RE6	3.000	S5	2.2	1.039	0.211	0.0324	
480 minute summer	RE9	6.000	S3	0.6	0.928	0.040	0.0620	
480 minute summer	S1	Hydro-Brake®	S1B	0.7				
480 minute summer	S3	2.004	S1	-19.2	-0.483	-0.348	0.3536	
480 minute summer	S4	2.003	S3	-13.4	0.024	-0.002	303.6881	
480 minute summer	S5	2.002	S4	4.7	1.461	0.031	0.4641	
480 minute summer	PIC1	2.001	S5	2.5	1.366	0.169	0.0134	
480 minute summer	PIC3	4.001	S4	2.4	1.741	0.115	0.0083	
480 minute summer	PIC4	5.001	S4	2.4	1.033	0.242	0.0328	
480 minute summer	PIC5	1.001	Swale Inlet	2.0	0.381	0.401	0.0684	
480 minute summer	S1A	1.006	F1	0.7	0.218	0.239	0.0089	89.8
480 minute summer	Swale Inlet	1.002	Swale Outlet	8.5	0.199	0.016	3.5990	
480 minute summer	Swale Outlet	1.003	S1	14.6	0.423	0.770	1.0136	
480 minute summer	S1B	1.005	S1A	0.7	0.116	0.076	0.0171	

Results for 100 year +40% CC 480 minute winter. 2480 minute analysis at 8 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	RE1	248	149.981	0.031	1.5	0.0576	0.0000	OK
480 minute winter	RE3	240	149.785	0.034	1.4	0.0620	0.0000	OK
480 minute winter	RE4	240	149.430	0.030	1.4	0.0533	0.0000	OK
480 minute winter	RE5	240	149.426	0.026	1.1	0.0429	0.0000	OK
480 minute winter	RE6	248	149.778	0.028	1.7	0.0538	0.0000	OK
480 minute winter	RE9	224	149.011	0.011	0.4	0.0151	0.0000	OK
480 minute winter	S1	488	148.507	1.242	15.1	4.1577	0.0000	SURCHARGED
480 minute winter	S3	488	148.507	1.190	24.0	1.5495	0.0000	SURCHARGED
480 minute winter	S4	488	148.507	1.120	17.5	0.0000	0.0000	SURCHARGED
480 minute winter	S5	248	149.199	0.024	3.5	0.0269	0.0000	OK
480 minute winter	PIC1	248	149.754	0.024	1.8	0.0305	0.0000	OK
480 minute winter	PIC3	240	149.590	0.020	1.7	0.0249	0.0000	OK
480 minute winter	PIC4	240	149.273	0.028	1.7	0.0347	0.0000	OK
480 minute winter	PIC5	240	149.136	0.036	1.4	0.0449	0.0000	OK
480 minute winter	F1	488	147.269	0.023	0.7	0.0000	0.0000	OK
480 minute winter	S1A	488	147.298	0.047	0.7	0.0529	0.0000	OK
480 minute winter	Swale Inlet	248	149.083	0.073	6.3	0.1130	0.0000	OK
480 minute winter	Swale Outlet	248	148.539	0.179	11.2	0.2658	0.0000	OK
480 minute winter	S1B	488	147.303	0.046	0.7	0.0516	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	RE1	2.000	PIC1	1.5	0.841	0.193	0.0239	
480 minute winter	RE3	4.000	PIC3	1.4	0.818	0.217	0.0275	
480 minute winter	RE4	5.000	PIC4	1.4	0.744	0.180	0.0178	
480 minute winter	RE5	1.000	PIC5	1.1	0.697	0.141	0.0238	
480 minute winter	RE6	3.000	S5	1.7	0.968	0.163	0.0269	
480 minute winter	RE9	6.000	S3	0.4	0.821	0.027	0.0627	
480 minute winter	S1	Hydro-Brake®	S1B	0.7				
480 minute winter	S3	2.004	S1	-14.3	-0.361	-0.260	0.3536	
480 minute winter	S4	2.003	S3	-10.8	0.024	-0.002	339.4169	
480 minute winter	S5	2.002	S4	3.5	1.458	0.023	0.4585	
480 minute winter	PIC1	2.001	S5	1.8	1.247	0.122	0.0106	
480 minute winter	PIC3	4.001	S4	1.7	1.578	0.082	0.0065	
480 minute winter	PIC4	5.001	S4	1.7	0.939	0.172	0.0255	
480 minute winter	PIC5	1.001	Swale Inlet	1.4	0.327	0.281	0.0566	
480 minute winter	S1A	1.006	F1	0.7	0.222	0.250	0.0092	94.1
480 minute winter	Swale Inlet	1.002	Swale Outlet	6.3	0.181	0.012	2.9084	
480 minute winter	Swale Outlet	1.003	S1	11.1	0.383	0.584	1.2613	
480 minute winter	S1B	1.005	S1A	0.7	0.118	0.079	0.0176	

Results for 100 year +40% CC 600 minute summer. 2610 minute analysis at 15 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	RE1	315	149.982	0.032	1.6	0.0594	0.0000	OK
600 minute summer	RE3	315	149.786	0.036	1.5	0.0641	0.0000	OK
600 minute summer	RE4	315	149.431	0.031	1.5	0.0551	0.0000	OK
600 minute summer	RE5	315	149.427	0.027	1.2	0.0449	0.0000	OK
600 minute summer	RE6	315	149.779	0.029	1.8	0.0554	0.0000	OK
600 minute summer	RE9	300	149.011	0.011	0.4	0.0151	0.0000	OK
600 minute summer	S1	615	148.401	1.136	16.3	2.4429	0.0000	SURCHARGED
600 minute summer	S3	615	148.401	1.084	26.0	1.4117	0.0000	SURCHARGED
600 minute summer	S4	615	148.401	1.014	17.8	0.0000	0.0000	SURCHARGED
600 minute summer	S5	315	149.200	0.025	3.8	0.0280	0.0000	OK
600 minute summer	PIC1	315	149.756	0.026	2.0	0.0323	0.0000	OK
600 minute summer	PIC3	315	149.591	0.021	1.9	0.0263	0.0000	OK
600 minute summer	PIC4	315	149.275	0.030	1.9	0.0367	0.0000	OK
600 minute summer	PIC5	315	149.139	0.039	1.6	0.0482	0.0000	OK
600 minute summer	F1	615	147.269	0.023	0.7	0.0000	0.0000	OK
600 minute summer	S1A	615	147.297	0.046	0.7	0.0520	0.0000	OK
600 minute summer	Swale Inlet	315	149.086	0.076	6.8	0.1180	0.0000	OK
600 minute summer	Swale Outlet	315	148.545	0.185	12.0	0.2761	0.0000	OK
600 minute summer	S1B	615	147.302	0.045	0.7	0.0506	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute summer	RE1	2.000	PIC1	1.6	0.847	0.206	0.0253	
600 minute summer	RE3	4.000	PIC3	1.5	0.827	0.233	0.0291	
600 minute summer	RE4	5.000	PIC4	1.5	0.749	0.193	0.0189	
600 minute summer	RE5	1.000	PIC5	1.2	0.714	0.154	0.0253	
600 minute summer	RE6	3.000	S5	1.8	0.983	0.173	0.0280	
600 minute summer	RE9	6.000	S3	0.4	0.821	0.027	0.0620	
600 minute summer	S1	Hydro-Brake®	S1B	0.7				
600 minute summer	S3	2.004	S1	-15.6	-0.392	-0.282	0.3536	
600 minute summer	S4	2.003	S3	-10.2	0.017	-0.002	308.3107	
600 minute summer	S5	2.002	S4	3.8	1.300	0.025	0.4600	
600 minute summer	PIC1	2.001	S5	2.0	1.284	0.135	0.0114	
600 minute summer	PIC3	4.001	S4	1.9	1.630	0.091	0.0070	
600 minute summer	PIC4	5.001	S4	1.9	0.968	0.192	0.0277	
600 minute summer	PIC5	1.001	Swale Inlet	1.6	0.346	0.321	0.0601	
600 minute summer	S1A	1.006	F1	0.7	0.218	0.240	0.0089	94.4
600 minute summer	Swale Inlet	1.002	Swale Outlet	6.8	0.188	0.013	3.0840	
600 minute summer	Swale Outlet	1.003	S1	12.0	0.394	0.632	0.8989	
600 minute summer	S1B	1.005	S1A	0.7	0.116	0.076	0.0171	

Results for 100 year +40% CC 600 minute winter. 2610 minute analysis at 15 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	RE1	315	149.978	0.028	1.2	0.0511	0.0000	OK
600 minute winter	RE3	300	149.780	0.030	1.1	0.0545	0.0000	OK
600 minute winter	RE4	300	149.426	0.026	1.1	0.0468	0.0000	OK
600 minute winter	RE5	300	149.423	0.023	0.9	0.0387	0.0000	OK
600 minute winter	RE6	315	149.775	0.025	1.4	0.0487	0.0000	OK
600 minute winter	RE9	270	149.010	0.010	0.3	0.0132	0.0000	OK
600 minute winter	S1	600	148.529	1.263	12.5	4.6234	0.0000	SURCHARGED
600 minute winter	S3	600	148.529	1.211	19.8	1.5773	0.0000	SURCHARGED
600 minute winter	S4	600	148.529	1.141	14.1	0.0000	0.0000	SURCHARGED
600 minute winter	S5	315	149.197	0.022	2.9	0.0246	0.0000	OK
600 minute winter	PIC1	315	149.752	0.022	1.5	0.0278	0.0000	OK
600 minute winter	PIC3	300	149.588	0.018	1.4	0.0226	0.0000	OK
600 minute winter	PIC4	300	149.271	0.026	1.4	0.0314	0.0000	OK
600 minute winter	PIC5	300	149.133	0.033	1.2	0.0414	0.0000	OK
600 minute winter	F1	615	147.269	0.023	0.7	0.0000	0.0000	OK
600 minute winter	S1A	615	147.298	0.047	0.7	0.0531	0.0000	OK
600 minute winter	Swale Inlet	315	149.076	0.065	5.2	0.1018	0.0000	OK
600 minute winter	Swale Outlet	600	148.529	0.169	9.2	0.2509	0.0000	OK
600 minute winter	S1B	615	147.303	0.046	0.7	0.0518	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	RE1	2.000	PIC1	1.2	0.784	0.154	0.0205	
600 minute winter	RE3	4.000	PIC3	1.1	0.758	0.171	0.0233	
600 minute winter	RE4	5.000	PIC4	1.1	0.687	0.142	0.0151	
600 minute winter	RE5	1.000	PIC5	0.9	0.659	0.115	0.0206	
600 minute winter	RE6	3.000	S5	1.4	0.916	0.134	0.0234	
600 minute winter	RE9	6.000	S3	0.3	0.753	0.020	0.0627	
600 minute winter	S1	Hydro-Brake®	S1B	0.7				
600 minute winter	S3	2.004	S1	-11.8	-0.297	-0.215	0.3536	
600 minute winter	S4	2.003	S3	-8.4	0.016	-0.002	345.6968	
600 minute winter	S5	2.002	S4	2.9	1.339	0.019	0.4555	
600 minute winter	PIC1	2.001	S5	1.5	1.186	0.102	0.0093	
600 minute winter	PIC3	4.001	S4	1.4	1.491	0.067	0.0057	
600 minute winter	PIC4	5.001	S4	1.4	0.888	0.141	0.0222	
600 minute winter	PIC5	1.001	Swale Inlet	1.2	0.317	0.241	0.0505	
600 minute winter	S1A	1.006	F1	0.7	0.222	0.252	0.0092	99.0
600 minute winter	Swale Inlet	1.002	Swale Outlet	5.2	0.172	0.010	2.5412	
600 minute winter	Swale Outlet	1.003	S1	9.2	0.359	0.485	1.4382	
600 minute winter	S1B	1.005	S1A	0.7	0.118	0.080	0.0177	

Results for 100 year +40% CC 720 minute summer. 2730 minute analysis at 15 minute timestep. Mass balance: 99.56%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	RE1	375	149.980	0.030	1.4	0.0555	0.0000	OK
720 minute summer	RE3	375	149.783	0.033	1.3	0.0596	0.0000	OK
720 minute summer	RE4	375	149.429	0.028	1.3	0.0512	0.0000	OK
720 minute summer	RE5	375	149.425	0.025	1.0	0.0409	0.0000	OK
720 minute summer	RE6	375	149.777	0.027	1.6	0.0521	0.0000	OK
720 minute summer	RE9	375	149.011	0.011	0.4	0.0151	0.0000	OK
720 minute summer	S1	735	148.410	1.145	14.2	2.5535	0.0000	SURCHARGED
720 minute summer	S3	735	148.411	1.093	22.7	1.4237	0.0000	SURCHARGED
720 minute summer	S4	735	148.411	1.023	14.4	0.0000	0.0000	SURCHARGED
720 minute summer	S5	375	149.198	0.023	3.3	0.0262	0.0000	OK
720 minute summer	PIC1	375	149.754	0.024	1.7	0.0296	0.0000	OK
720 minute summer	PIC3	375	149.589	0.019	1.6	0.0241	0.0000	OK
720 minute summer	PIC4	375	149.273	0.027	1.6	0.0336	0.0000	OK
720 minute summer	PIC5	375	149.135	0.035	1.3	0.0431	0.0000	OK
720 minute summer	F1	735	147.269	0.023	0.7	0.0000	0.0000	OK
720 minute summer	S1A	735	147.297	0.046	0.7	0.0521	0.0000	OK
720 minute summer	Swale Inlet	375	149.080	0.070	5.9	0.1092	0.0000	OK
720 minute summer	Swale Outlet	375	148.534	0.174	10.5	0.2590	0.0000	OK
720 minute summer	S1B	735	147.302	0.045	0.7	0.0507	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute summer	RE1	2.000	PIC1	1.4	0.823	0.180	0.0228	
720 minute summer	RE3	4.000	PIC3	1.3	0.799	0.202	0.0261	
720 minute summer	RE4	5.000	PIC4	1.3	0.727	0.167	0.0169	
720 minute summer	RE5	1.000	PIC5	1.0	0.679	0.128	0.0222	
720 minute summer	RE6	3.000	S5	1.6	0.951	0.154	0.0257	
720 minute summer	RE9	6.000	S3	0.4	0.821	0.027	0.0612	
720 minute summer	S1	Hydro-Brake®	S1B	0.7				
720 minute summer	S3	2.004	S1	-13.5	-0.340	-0.245	0.3536	
720 minute summer	S4	2.003	S3	-7.9	0.014	-0.001	311.0238	
720 minute summer	S5	2.002	S4	3.3	1.185	0.022	0.4576	
720 minute summer	PIC1	2.001	S5	1.7	1.228	0.115	0.0101	
720 minute summer	PIC3	4.001	S4	1.6	1.550	0.077	0.0062	
720 minute summer	PIC4	5.001	S4	1.6	0.922	0.161	0.0244	
720 minute summer	PIC5	1.001	Swale Inlet	1.3	0.318	0.261	0.0543	
720 minute summer	S1A	1.006	F1	0.7	0.219	0.241	0.0090	98.6
720 minute summer	Swale Inlet	1.002	Swale Outlet	5.9	0.179	0.011	2.7910	
720 minute summer	Swale Outlet	1.003	S1	10.5	0.376	0.553	0.8285	
720 minute summer	S1B	1.005	S1A	0.7	0.116	0.076	0.0172	

Results for 100 year +40% CC 720 minute winter. 2730 minute analysis at 15 minute timestep. Mass balance: 99.50%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	RE1	360	149.976	0.026	1.0	0.0467	0.0000	OK
720 minute winter	RE3	375	149.779	0.029	1.0	0.0521	0.0000	OK
720 minute winter	RE4	375	149.425	0.025	1.0	0.0448	0.0000	OK
720 minute winter	RE5	360	149.422	0.022	0.8	0.0365	0.0000	OK
720 minute winter	RE6	375	149.773	0.023	1.2	0.0450	0.0000	OK
720 minute winter	RE9	345	149.010	0.010	0.3	0.0132	0.0000	OK
720 minute winter	S1	720	148.540	1.275	10.6	4.8797	0.0000	SURCHARGED
720 minute winter	S3	720	148.540	1.223	16.9	1.5917	0.0000	SURCHARGED
720 minute winter	S4	720	148.540	1.153	12.4	0.0000	0.0000	SURCHARGED
720 minute winter	S5	375	149.195	0.020	2.4	0.0225	0.0000	OK
720 minute winter	PIC1	360	149.750	0.020	1.2	0.0248	0.0000	OK
720 minute winter	PIC3	375	149.587	0.017	1.2	0.0209	0.0000	OK
720 minute winter	PIC4	375	149.269	0.024	1.2	0.0290	0.0000	OK
720 minute winter	PIC5	360	149.130	0.030	1.0	0.0376	0.0000	OK
720 minute winter	F1	720	147.269	0.023	0.7	0.0000	0.0000	OK
720 minute winter	S1A	720	147.298	0.047	0.7	0.0532	0.0000	OK
720 minute winter	Swale Inlet	375	149.070	0.060	4.4	0.0928	0.0000	OK
720 minute winter	Swale Outlet	720	148.540	0.180	7.8	0.2673	0.0000	OK
720 minute winter	S1B	720	147.303	0.046	0.7	0.0518	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
720 minute winter	RE1	2.000	PIC1	1.0	0.753	0.129	0.0178	
720 minute winter	RE3	4.000	PIC3	1.0	0.747	0.155	0.0216	
720 minute winter	RE4	5.000	PIC4	1.0	0.681	0.129	0.0139	
720 minute winter	RE5	1.000	PIC5	0.8	0.637	0.102	0.0189	
720 minute winter	RE6	3.000	S5	1.2	0.877	0.115	0.0209	
720 minute winter	RE9	6.000	S3	0.3	0.753	0.020	0.0620	
720 minute winter	S1	Hydro-Brake®	S1B	0.7				
720 minute winter	S3	2.004	S1	-10.0	-0.250	-0.181	0.3536	
720 minute winter	S4	2.003	S3	-7.6	0.015	-0.001	348.9420	
720 minute winter	S5	2.002	S4	2.4	1.266	0.016	0.4529	
720 minute winter	PIC1	2.001	S5	1.2	1.113	0.081	0.0079	
720 minute winter	PIC3	4.001	S4	1.2	1.425	0.058	0.0051	
720 minute winter	PIC4	5.001	S4	1.2	0.850	0.121	0.0199	
720 minute winter	PIC5	1.001	Swale Inlet	1.0	0.296	0.200	0.0450	
720 minute winter	S1A	1.006	F1	0.7	0.222	0.253	0.0092	103.3
720 minute winter	Swale Inlet	1.002	Swale Outlet	4.4	0.164	0.008	2.3637	
720 minute winter	Swale Outlet	1.003	S1	7.8	0.338	0.411	1.5258	
720 minute winter	S1B	1.005	S1A	0.7	0.118	0.080	0.0177	

Results for 100 year +40% CC 960 minute summer. 2970 minute analysis at 15 minute timestep. Mass balance: 99.57%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	RE1	495	149.977	0.027	1.1	0.0488	0.0000	OK
960 minute summer	RE3	495	149.779	0.029	1.0	0.0518	0.0000	OK
960 minute summer	RE4	495	149.425	0.025	1.0	0.0445	0.0000	OK
960 minute summer	RE5	495	149.422	0.022	0.8	0.0365	0.0000	OK
960 minute summer	RE6	495	149.773	0.023	1.2	0.0450	0.0000	OK
960 minute summer	RE9	480	149.010	0.010	0.3	0.0132	0.0000	OK
960 minute summer	S1	975	148.420	1.155	11.3	2.6755	0.0000	SURCHARGED
960 minute summer	S3	975	148.420	1.103	17.8	1.4361	0.0000	SURCHARGED
960 minute summer	S4	975	148.420	1.033	12.1	0.0000	0.0000	SURCHARGED
960 minute summer	S5	495	149.196	0.021	2.6	0.0234	0.0000	OK
960 minute summer	PIC1	495	149.751	0.021	1.4	0.0268	0.0000	OK
960 minute summer	PIC3	495	149.587	0.017	1.3	0.0218	0.0000	OK
960 minute summer	PIC4	495	149.270	0.025	1.3	0.0302	0.0000	OK
960 minute summer	PIC5	495	149.132	0.032	1.1	0.0395	0.0000	OK
960 minute summer	F1	975	147.269	0.023	0.7	0.0000	0.0000	OK
960 minute summer	S1A	975	147.297	0.046	0.7	0.0522	0.0000	OK
960 minute summer	Swale Inlet	495	149.072	0.062	4.7	0.0963	0.0000	OK
960 minute summer	Swale Outlet	495	148.516	0.156	8.3	0.2319	0.0000	OK
960 minute summer	S1B	975	147.302	0.045	0.7	0.0508	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute summer	RE1	2.000	PIC1	1.1	0.762	0.142	0.0194	
960 minute summer	RE3	4.000	PIC3	1.0	0.735	0.155	0.0219	
960 minute summer	RE4	5.000	PIC4	1.0	0.665	0.129	0.0142	
960 minute summer	RE5	1.000	PIC5	0.8	0.637	0.102	0.0189	
960 minute summer	RE6	3.000	S5	1.2	0.877	0.115	0.0209	
960 minute summer	RE9	6.000	S3	0.3	0.753	0.020	0.0615	
960 minute summer	S1	Hydro-Brake®	S1B	0.7				
960 minute summer	S3	2.004	S1	-10.6	-0.268	-0.193	0.3536	
960 minute summer	S4	2.003	S3	-6.9	0.014	-0.001	313.8326	
960 minute summer	S5	2.002	S4	2.6	1.145	0.017	0.4540	
960 minute summer	PIC1	2.001	S5	1.4	1.163	0.095	0.0088	
960 minute summer	PIC3	4.001	S4	1.3	1.459	0.063	0.0054	
960 minute summer	PIC4	5.001	S4	1.3	0.869	0.131	0.0211	
960 minute summer	PIC5	1.001	Swale Inlet	1.1	0.306	0.221	0.0473	
960 minute summer	S1A	1.006	F1	0.7	0.219	0.242	0.0090	106.8
960 minute summer	Swale Inlet	1.002	Swale Outlet	4.7	0.168	0.009	2.3605	
960 minute summer	Swale Outlet	1.003	S1	8.3	0.346	0.437	0.7163	
960 minute summer	S1B	1.005	S1A	0.7	0.116	0.077	0.0172	

Results for 100 year +40% CC 960 minute winter. 2970 minute analysis at 15 minute timestep. Mass balance: 99.52%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	RE1	465	149.973	0.023	0.8	0.0416	0.0000	OK
960 minute winter	RE3	480	149.776	0.026	0.8	0.0464	0.0000	OK
960 minute winter	RE4	480	149.422	0.022	0.8	0.0398	0.0000	OK
960 minute winter	RE5	465	149.419	0.019	0.6	0.0316	0.0000	OK
960 minute winter	RE6	465	149.770	0.020	0.9	0.0389	0.0000	OK
960 minute winter	RE9	390	149.008	0.008	0.2	0.0109	0.0000	OK
960 minute winter	S1	960	148.553	1.288	8.4	5.1982	0.0000	SURCHARGED
960 minute winter	S3	960	148.553	1.236	13.1	1.6088	0.0000	SURCHARGED
960 minute winter	S4	960	148.553	1.166	9.0	0.0000	0.0000	SURCHARGED
960 minute winter	S5	465	149.193	0.018	1.9	0.0202	0.0000	OK
960 minute winter	PIC1	465	149.748	0.018	1.0	0.0227	0.0000	OK
960 minute winter	PIC3	480	149.585	0.015	1.0	0.0192	0.0000	OK
960 minute winter	PIC4	480	149.267	0.022	1.0	0.0265	0.0000	OK
960 minute winter	PIC5	465	149.127	0.027	0.8	0.0336	0.0000	OK
960 minute winter	F1	960	147.269	0.023	0.7	0.0000	0.0000	OK
960 minute winter	S1A	960	147.298	0.047	0.7	0.0533	0.0000	OK
960 minute winter	Swale Inlet	495	149.062	0.052	3.5	0.0816	0.0000	OK
960 minute winter	Swale Outlet	960	148.553	0.193	6.2	0.2868	0.0000	OK
960 minute winter	S1B	960	147.303	0.046	0.7	0.0520	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
960 minute winter	RE1	2.000	PIC1	0.8	0.700	0.103	0.0153	
960 minute winter	RE3	4.000	PIC3	0.8	0.695	0.124	0.0185	
960 minute winter	RE4	5.000	PIC4	0.8	0.632	0.103	0.0119	
960 minute winter	RE5	1.000	PIC5	0.6	0.586	0.077	0.0154	
960 minute winter	RE6	3.000	S5	0.9	0.808	0.086	0.0171	
960 minute winter	RE9	6.000	S3	0.2	0.666	0.013	0.0620	
960 minute winter	S1	Hydro-Brake®	S1B	0.7				
960 minute winter	S3	2.004	S1	-7.8	-0.195	-0.141	0.3536	
960 minute winter	S4	2.003	S3	-5.2	0.020	-0.001	352.7974	
960 minute winter	S5	2.002	S4	1.9	1.185	0.013	0.4501	
960 minute winter	PIC1	2.001	S5	1.0	1.056	0.068	0.0069	
960 minute winter	PIC3	4.001	S4	1.0	1.352	0.048	0.0045	
960 minute winter	PIC4	5.001	S4	1.0	0.807	0.101	0.0175	
960 minute winter	PIC5	1.001	Swale Inlet	0.8	0.284	0.160	0.0384	
960 minute winter	S1A	1.006	F1	0.7	0.223	0.254	0.0093	111.8
960 minute winter	Swale Inlet	1.002	Swale Outlet	3.5	0.152	0.007	2.6240	
960 minute winter	Swale Outlet	1.003	S1	6.2	0.312	0.327	1.6256	
960 minute winter	S1B	1.005	S1A	0.7	0.119	0.081	0.0178	

Results for 100 year +40% CC 1440 minute summer. 3450 minute analysis at 30 minute timestep. Mass balance: 99.58%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute summer	RE1	750	149.971	0.021	0.7	0.0388	0.0000	OK
1440 minute summer	RE3	750	149.774	0.024	0.7	0.0433	0.0000	OK
1440 minute summer	RE4	750	149.421	0.021	0.7	0.0371	0.0000	OK
1440 minute summer	RE5	750	149.419	0.019	0.6	0.0316	0.0000	OK
1440 minute summer	RE6	750	149.770	0.020	0.9	0.0389	0.0000	OK
1440 minute summer	RE9	720	149.008	0.008	0.2	0.0109	0.0000	OK
1440 minute summer	S1	1470	148.436	1.171	7.8	2.9012	0.0000	SURCHARGED
1440 minute summer	S3	1470	148.436	1.119	12.2	1.4572	0.0000	SURCHARGED
1440 minute summer	S4	1470	148.436	1.049	8.6	0.0000	0.0000	SURCHARGED
1440 minute summer	S5	750	149.192	0.017	1.8	0.0197	0.0000	OK
1440 minute summer	PIC1	750	149.747	0.017	0.9	0.0215	0.0000	OK
1440 minute summer	PIC3	750	149.584	0.014	0.9	0.0182	0.0000	OK
1440 minute summer	PIC4	750	149.266	0.021	0.9	0.0251	0.0000	OK
1440 minute summer	PIC5	750	149.127	0.027	0.8	0.0336	0.0000	OK
1440 minute summer	F1	1470	147.269	0.023	0.7	0.0000	0.0000	OK
1440 minute summer	S1A	1470	147.297	0.046	0.7	0.0524	0.0000	OK
1440 minute summer	Swale Inlet	750	149.061	0.051	3.3	0.0789	0.0000	OK
1440 minute summer	Swale Outlet	750	148.492	0.132	5.8	0.1970	0.0000	OK
1440 minute summer	S1B	1470	147.302	0.045	0.7	0.0509	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute summer	RE1	2.000	PIC1	0.7	0.669	0.090	0.0140	
1440 minute summer	RE3	4.000	PIC3	0.7	0.665	0.109	0.0169	
1440 minute summer	RE4	5.000	PIC4	0.7	0.604	0.090	0.0109	
1440 minute summer	RE5	1.000	PIC5	0.6	0.586	0.077	0.0154	
1440 minute summer	RE6	3.000	S5	0.9	0.808	0.086	0.0171	
1440 minute summer	RE9	6.000	S3	0.2	0.666	0.013	0.0611	
1440 minute summer	S1	Hydro-Brake®	S1B	0.7				
1440 minute summer	S3	2.004	S1	-7.2	-0.181	-0.130	0.3536	
1440 minute summer	S4	2.003	S3	-5.0	0.020	-0.001	318.5934	
1440 minute summer	S5	2.002	S4	1.8	1.060	0.012	0.4496	
1440 minute summer	PIC1	2.001	S5	0.9	1.024	0.061	0.0064	
1440 minute summer	PIC3	4.001	S4	0.9	1.310	0.043	0.0042	
1440 minute summer	PIC4	5.001	S4	0.9	0.782	0.091	0.0162	
1440 minute summer	PIC5	1.001	Swale Inlet	0.8	0.285	0.160	0.0373	
1440 minute summer	S1A	1.006	F1	0.7	0.219	0.243	0.0090	122.5
1440 minute summer	Swale Inlet	1.002	Swale Outlet	3.3	0.150	0.006	1.8475	
1440 minute summer	Swale Outlet	1.003	S1	5.8	0.305	0.306	0.6607	
1440 minute summer	S1B	1.005	S1A	0.7	0.117	0.077	0.0173	

Results for 100 year +40% CC 1440 minute winter. 3450 minute analysis at 30 minute timestep. Mass balance: 99.54%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	RE1	750	149.970	0.020	0.6	0.0362	0.0000	OK
1440 minute winter	RE3	690	149.771	0.020	0.5	0.0368	0.0000	OK
1440 minute winter	RE4	690	149.418	0.018	0.5	0.0316	0.0000	OK
1440 minute winter	RE5	660	149.416	0.016	0.4	0.0259	0.0000	OK
1440 minute winter	RE6	690	149.767	0.016	0.6	0.0318	0.0000	OK
1440 minute winter	RE9	720	149.008	0.008	0.2	0.0109	0.0000	OK
1440 minute winter	S1	1440	148.560	1.295	5.8	5.3916	0.0000	SURCHARGED
1440 minute winter	S3	1440	148.560	1.243	9.0	1.6188	0.0000	SURCHARGED
1440 minute winter	S4	1440	148.560	1.173	5.5	0.0000	0.0000	SURCHARGED
1440 minute winter	S5	750	149.190	0.015	1.3	0.0170	0.0000	OK
1440 minute winter	PIC1	750	149.745	0.015	0.7	0.0190	0.0000	OK
1440 minute winter	PIC3	690	149.582	0.012	0.6	0.0150	0.0000	OK
1440 minute winter	PIC4	690	149.262	0.017	0.6	0.0206	0.0000	OK
1440 minute winter	PIC5	660	149.121	0.021	0.5	0.0265	0.0000	OK
1440 minute winter	F1	1440	147.269	0.023	0.7	0.0000	0.0000	OK
1440 minute winter	S1A	1440	147.298	0.047	0.7	0.0534	0.0000	OK
1440 minute winter	Swale Inlet	750	149.052	0.042	2.4	0.0658	0.0000	OK
1440 minute winter	Swale Outlet	1440	148.560	0.200	4.3	0.2983	0.0000	OK
1440 minute winter	S1B	1440	147.303	0.046	0.7	0.0520	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
1440 minute winter	RE1	2.000	PIC1	0.6	0.656	0.077	0.0123	
1440 minute winter	RE3	4.000	PIC3	0.5	0.612	0.078	0.0132	
1440 minute winter	RE4	5.000	PIC4	0.5	0.559	0.064	0.0084	
1440 minute winter	RE5	1.000	PIC5	0.4	0.521	0.051	0.0116	
1440 minute winter	RE6	3.000	S5	0.6	0.717	0.058	0.0128	
1440 minute winter	RE9	6.000	S3	0.2	0.666	0.013	0.0611	
1440 minute winter	S1	Hydro-Brake®	S1B	0.7				
1440 minute winter	S3	2.004	S1	-5.2	-0.130	-0.094	0.3536	
1440 minute winter	S4	2.003	S3	-3.1	0.012	-0.001	355.0544	
1440 minute winter	S5	2.002	S4	1.3	1.110	0.009	0.4465	
1440 minute winter	PIC1	2.001	S5	0.7	0.953	0.047	0.0054	
1440 minute winter	PIC3	4.001	S4	0.6	1.160	0.029	0.0031	
1440 minute winter	PIC4	5.001	S4	0.6	0.694	0.061	0.0122	
1440 minute winter	PIC5	1.001	Swale Inlet	0.5	0.252	0.100	0.0286	
1440 minute winter	S1A	1.006	F1	0.7	0.223	0.255	0.0093	127.5
1440 minute winter	Swale Inlet	1.002	Swale Outlet	2.4	0.133	0.004	2.7725	
1440 minute winter	Swale Outlet	1.003	S1	4.3	0.275	0.227	1.6812	
1440 minute winter	S1B	1.005	S1A	0.7	0.119	0.081	0.0178	