Land South of Coate Road, Devizes, Wiltshire

Robert Hitchins Ltd

Robert Hitchins
The Complete Development Solution

Flood Risk Assessment Addendum

June 2026

PHOENIX DESIGN
Partnership Ltd.

The Old School House

St John's Road, South Parade

Bath BA2 4AF

[redacted]

Document Control:

Project Number:	639
Project:	Land South of Coate Road, Devizes, Wiltshire
Client:	Robert Hitchins Ltd
Document Title:	Flood Risk Assessment & Drainage Strategy
Author:	George Ballard
Revision:	-
Status:	Planning
Control date:	02/06/2026

Record of Issue:

Issue	Status	Author	Date	Check	Date	Authorised	Date
-	First Issue	G Ballard	02/06/26				

Revision	Date	Description
-	02/06/26	First issue.

This addendum has been produced by Phoenix Design Partnership on behalf of Robert Hitchins Ltd and their successors in title for the Land South of Coate Road Devizes and is in response to consultation comments made by the LLFA (Wiltshire Council) dated 20/04/2026 (copy included in Appendix A).

1. CCTV Survey

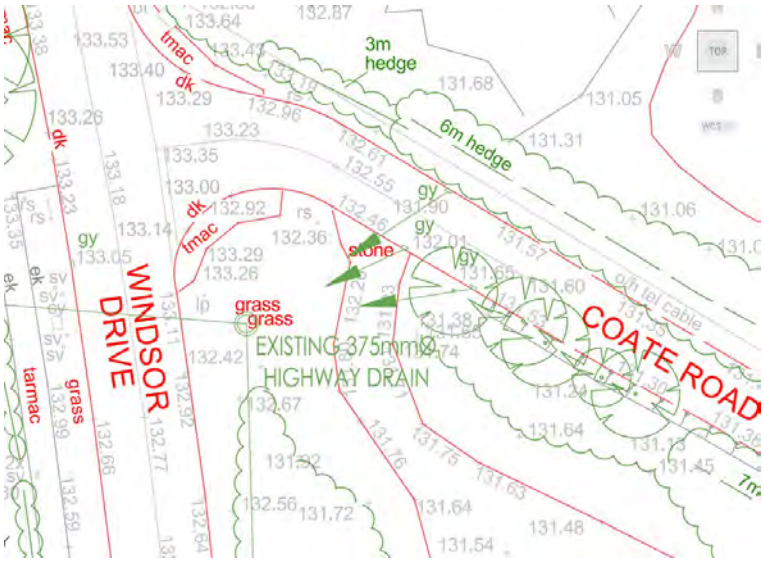
As requested by the LLFA a survey of the existing drainage was carried out in April 2026 by Just Survey Ltd. to determine the connectivity and condition of the existing drainage from the highway drain manhole H8205 located close to the junction of Windsor Drive and Coate Road to the surface water sewer outfall S7324 to the Kennet and Avon Canal approximately 35m to the west of Coate Bridge. The survey results are contained in Appendix B and include:

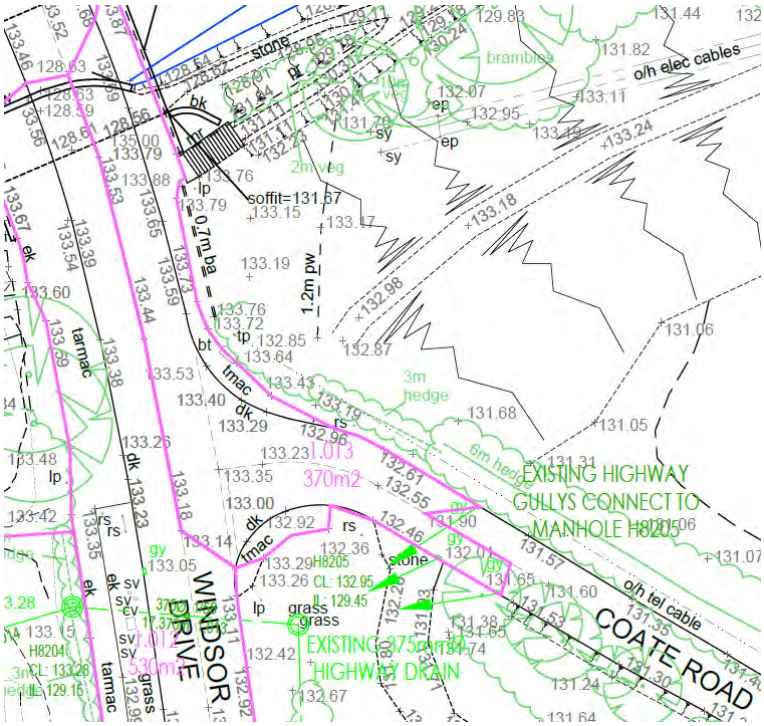
- Report
- Plan
- Survey Sheets
- Manhole Survey Sheets
- Manhole Photos
- Connectivity Dye Test H6808 (Head of Drain Run) to S7324 (Outfall to K&A Canal)
- CCTV Camera Survey

The survey shows the existing Windsor Drive drainage system to be as expected and in good condition.

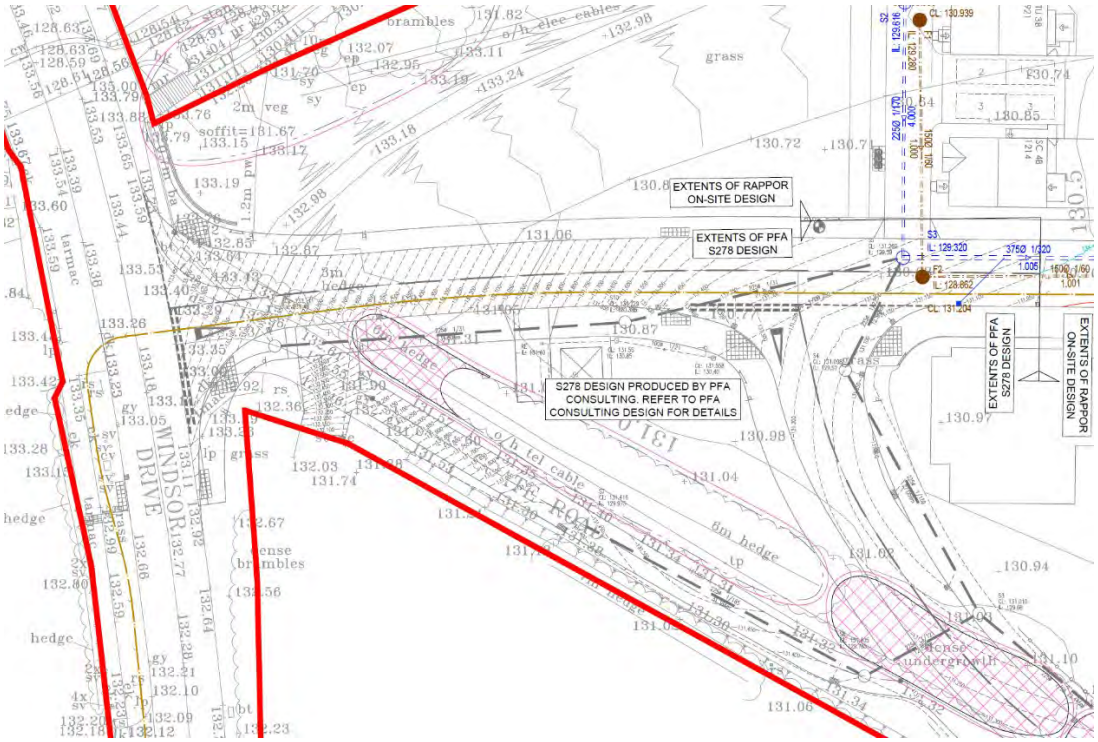
2. Bellway Access:

There were three existing gullys in Coate Road that connected to Manhole H8205. The total area of highway that drained to the gullys was c.370m2 (5.2l/s for 50mm per hour rainfall).





The Bellway Access Works are currently being constructed. Details of the proposed drainage are shown on Drawing 240322-RAP-XX-XX-DR-C-3101 included in Appendix C. The section of Coate Road where the three gullys are located is being downgraded and reduced in width. New highway drains are being provided for the access road resulting in the three gullys becoming redundant.



3. Drainage Assessment:

To assess the impact of the proposed connection to the 375mm diameter highway drain from the West Development Area and Pond 2 two drainage models have been created:

- Existing Highway Drain in Windsor Drive and the Surface Water Sewer discharging to the Kennet and Avon Canal west of Coate Bridge. Details are shown on Drawing 639-P107 'Existing Windsor Drive Drainage', included in Appendix D.
- Existing Highway Drain in Windsor Drive and the Surface Water Sewer discharging to the Kennet and Avon Canal west of Coate Bridge, plus the surface water drainage from the West Development Area and Pond 2. Details are shown on Drawing 639-P108 'Existing Windsor Drive Drainage + West Development Area', included in Appendix D.

The discharge from Pond 2 to the Highway Drain will be restricted to a maximum of 2.0l/s for all events up to and including the 1:100 + Climate Change event. A maximum of approximately 1,080m3 of attenuation is provided in Pond 2.

The two drainage models have been simulated using Causeway Flow drainage design software using the design criteria below:

- ReFH2 FEH22 Rainfall
- !:2, 1:30 + 40% CC, & 1:100 + 45% CC.
- Summer & Winter rainfall profiles.
- Durations 60 minutes to 2160 minutes.
- Cv (Volumetric runoff coefficient) = 1.0
- No additional storage within the drainage network.
- A Time-Area Diagram has been used to represent the 4.0Ha existing residential development connection to the drain.
- ReFH2 Dynamic Hydrographs have been used to represent surface water runoff that flows overland from higher land to the east into the highway drain.
- Existing Highway Drain in Windsor Drive to have 1.2m minimum cover.

Calculations are included in Appendix E; the results are summarized below:

Existing Windsor Drive Drainage (Drawing 639-P107):

Event	Discharge to the Canal (l/s)
1:2	170.0
1:30 + 40% CC	629.8
1:100 + 45% CC	782.7

The results show:

- No Surcharging in the 1:2 events.
- No Flooding in the 1:30 + 40% CC events.
- Flooding from the Highway Drain at four locations in Windsor Drive in the 1:100 + 45% CC events, but only in the 60-minute duration summer event.
- Volume of Flooding:

Manhole Reference	Flood Volume (m3)
H8001	6.4
H8105	1.7
H8104	0.1
H8207 (Low Point in Windsor Drive)	7.4
Total	**15.6**

Existing Windsor Drive Drainage + West Development Area (Drawing 639-P108):

Pond 2 Details:

- Normal Water Level 130.00mAOD
- Minimum Bank Level 131.75mAOD
- Volume @ 131.45mAOD c.835m3
- Volume @ 131.75mAOD c.1,080m3
- 1:3 Side Slopes
- 3m Aquatic Bench @ 1:20
- 0.9m Permanent Pool Depth
- Permanent Pool Volume c.160m3
- Hydrobrake Flow Control
    - 2.0l/s Maximum Discharge @ 1.49m Head (61mmØ)
    - IL = 129.96mAOD
- Urban Creep allowance was added to development impermeable areas.

The results show:

- No Surcharging in the 1:2 events, except 225mm diameter pond outlet and hydrobrake.
- No Flooding in the 1:30 + 40% CC events.
- Flooding from the Highway Drain at four locations in Windsor Drive in the 1:100 + 45% CC events, but only in the 60-minute duration summer event.
- Volume of Flooding:

Manhole Reference	Flood Volume (m3)	Difference (m3)
H8001	6.3	-0.1
H8105	1.7	0.0
H8104	0.2	+0.1
H8207 (Low Point in Windsor Drive)	6.9	-0.5
Total	**15.1**	**-0.5**

- Pond 2 Results:

AEP Event	Critical Duration (minutes)	Water Level (mAOD)	Storage Depth (m)	Freeboard (m)	Storage Volume (m3)	Discharge (l/s)
1:2	960 W	131.37	0.37	1.38	164	1.6
1:30 + 40% CC	1440 W	131.08	1.08	0.67	570	1.7
1:100 + 45% CC	1440 S	131.42	1.42	0.33	811	2.0

- Discharge Rate to the Kennet and Avon Canal:

AEP Event	Critical Duration (minutes)	Existing Discharge (l/s)	Proposed Discharge (l/s)	Difference (l/s)
1:2	60 S	170.0	171.3	+1.3 (+0.8%)
1:30 + 40% CC	60 S	629.8	630.5	+0.7 (+0.1%)
1:100 + 45% CC	60 S	782.7	782.1	-0.6 (-0.1%)

- Discharge Volume to the Kennet and Avon Canal

AEP Event	Duration (minutes)	Existing Discharge (m3)	Proposed Discharge (m3)	Difference (m3)
1:2	360 S	657.4	841.1	+183.7 (+28%)
1:30 + 40% CC	360 S	1987.6	2267.5	+279.9 (+14%)
1:100 + 45% CC	360 S	2656.7	2973.8	+317.1 (+12%)

- Model Stability (Lowest Mass Balance):

AEP Event	Existing Model (%)	Proposed Model (%)
1:2	100.00	100.00
1:30 + 40% CC	99.96	99.94
1:100 + 45% CC	99.78	99.89

All values are greater than 95% (minimum value recommended by Causeway Flow software) and are generally 100% or very close to 100%, indicating that both models are stable and that there are no significant issues or losses.

Drainage Strategy, drawing 639-P106 is included in Appendix F, Pond 2 details have been updated in accordance with Section 3 above.

The results of the hydraulic modelling show that the proposed connection to the Highway Drain Manhole H8205 does not have any impact on the existing drain and sewer outfall to the canal.

4. Interception:

In accordance with the National Standards for SuDS: Standard 2 SuDS will be used to intercept runoff and ensure that at least the first 5mm of rainfall for most rainfall events does not result in runoff from the site to surface waters or piped drainage systems:

- Rainwater Harvesting - Reuse.
- Permeable Surfaces (Unlined) - Evapotranspiration & Infiltration.
- Swales - Evapotranspiration & Infiltration.
- Filter Strips - Evapotranspiration & Infiltration.
- Basins - Evapotranspiration & Infiltration.
- Bioretention Areas & Rain Gardens - Evapotranspiration & Infiltration.

Although guidance states that ponds and wet swales do not provide Interception, they do provide significant biodiversity (contradictory guidance). There will still be some infiltration from their bases into the underlying soils (1x10-7 m/s) and evapotranspiration (evaporation and plant uptake). The interception and biodiversity benefits of ponds or basins, and wet or dry swales will be assessed at reserved matters stage.

At outline planning stage and without a detailed layout it is difficult to demonstrate fully that Interception can be provided. A planning condition to provide further details with any reserved matters planning applications is therefore acceptable.

5. Exceedance Flow Routes:

Refer to drawings 639-P100, and 639-P109 included in Appendix G for details of Existing Overland Flow Routes and Preliminary Proposed Exceedance Routes.
At outline planning stage and without a detailed layout it is difficult to demonstrate fully that the exceedance flow routes can be provided however the preliminary detail shown are achievable. House floor levels will be generally set 150mm above the external levels to ensure that the properties are not at risk from flooding from surface water. A planning condition to provide further details with any reserved matters planning applications is therefore acceptable.

6. National Standards for SuDS:

Standard 1: runoff destinations - See Section 3 above.

Standard 2: management of everyday rainfall (interception) - See Section 4 above.

Standard 3: management of extreme rainfall and flooding – See Sections 3 and 5 above

Standard 4: water quality - Additional detail to be provided with Reserved Matters Planning.

Standard 5: amenity - Additional detail to be provided with Reserved Matters Planning.

Standard 6: biodiversity - Additional detail to be provided with Reserved Matters Planning.

Standard 7: design of drainage for construction, operation, maintenance, decommissioning and structural integrity - Additional detail to be provided with Reserved Matters Planning.

7. Foul Sewage:

Foul sewage from the development will be discharged west to the existing 150mm diameter Wessex Water foul sewer in Harebell Way. The foul sewage infrastructure in the existing residential development to the west flows south and west to the Potterne WRC where it is treated; treated effluent from the centre is discharged to the Bristol Avon Catchment. Details have been agreed in principle with Wessex Water.

The treated sewage effluent will not be discharged to the Hampshire Avon Special Area of Conservation and will not therefore have any adverse impact on Nutrient Neutrality.

8. Conclusion:

- Runoff from the site, prior to construction of the Bellway development to the north of Coate Road flowed across Coate Road onto the land to the north and then flowed east to the canal.

- With the construction of the Bellway development and new access road arrangement runoff from the site will flow north and into the Bellway Coate Road highway drainage system, will be attenuated in the Bellway pond, and will discharge to the canal.
- The results of the hydraulic modelling show that the proposed connection to the Highway Drain Manhole H8205 does not have any impact on the existing drain and sewer outfall to the canal.
- A CCTV survey of the existing drainage from highway drain manhole H8205 to the sewer outfall S7234 has been carried out. It demonstrates connectivity and shows the existing drainage to be in good condition (Grade 1).
- Reserved Matters Planning Applications will provide additional drainage details based on a detailed development layout and can be secured by an outline planning condition.
- Additional details to demonstrate NSfSuDS Compliance (Standards 2 - 7) can be secured by an outline planning condition.
- Treated effluent from the development will discharge from the Potterne WRC to the Bristol Avon Catchment. Ther will not be any adverse impact on Nutrient Neutrality for Hampshire Avon SAC.

Appendix A

LLFA Consultation Response

Wiltshire Council

To:	Lucy Rutter-Dowd	**From:**	Drainage (Barney Taylor)

Planning App Ref:	*PL/2026/01963*
Service Ref:	*Drainage*
Date:	*20/04/2026*

PROPOSAL
Outline planning permission: All matters reserved for the residential development for up to 175 dwellings, associated works (including demolition), infrastructure, ancillary facilities, open space and landscaping. Construction of a new vehicular access off Coate Road and Windsor Drive.

SITE LOCATION
Land South of Coate Road, Devizes

SUMMARY OF THE CONSULTEE POSITION

Object	
Holding Objection: Further information required	**x**
Support	
No comment	
No objection	
No objection subject to conditions	
Consultation not required	

APPLICATION DOCUMENTS REVIEWED

- *Application Form*
- *Covering Letter*
- *Flood Risk Assessment & Drainage Strategy – Part 1 & 2*
- *Ground Investigation Report*
- *Indicative Masterplan*
- *Planning Statement*
- *Site Location Plan*

ASSESSMENT OF THE PROPOSAL

Context
In planning terms, flood risk refers to the potential for development to increase the likelihood or severity of flooding on-site or elsewhere, while drainage considerations relate to the capacity of the site and surrounding infrastructure to manage surface water runoff in a sustainable and effective manner.

The local planning authority must be satisfied that the proposed development will not increase flood risk, either on-site or elsewhere, and that surface water will be managed in a sustainable and coordinated manner.

Where necessary, planning conditions or legal agreements may be used to secure the implementation, maintenance, and monitoring of SuDS and other drainage infrastructure.

Assessment

The application has been supported with a Site-Specific Flood Risk Assessment (FRA). It should be noted that our comments below are reliant on the accuracy and completeness of the FRA and we do not take any responsibility for incorrect data or interpretation made by the authors.

The applicant's proposed drainage strategy does not demonstrate adherence to the National Standards for SuDS, Standard 1 or Standard 2. The LLFA requires the applicant to propose further source-control SuDS across the extent of the site to intercept and attenuate surface water flows at source. The applicant should note that a pre-development catchment plan is required to demonstrate there is no catchment transfer when discharging to the highway drain. The applicant is also required to demonstrate adherence to the surface water disposal hierarchy – notably that no other alternative higher than discharging to the highway drain is achievable This information is required at this stage of the application.

RECOMMENDATION:

Holding Objection for the following reasons:

1. National Standards for SuDS: Standard 1: runoff destinations

a) It is noted in the Executive Summary and Section 6.2 of the FRA & Drainage Strategy that the applicant proposes to discharge surface water from the western catchment to the highway drain in Windsor Drive.

The applicant must provide a pre-development catchment plan to demonstrate the entirety of the western catchment drains to the highway drain in the existing scenario.

b) The applicant must confirm the condition of the highways drainage system from the proposed point of connection to the outfall location to demonstrate the connection is viable.

c) To demonstrate adherence to paragraph 1.2 of the National Standards for SuDS (the surface water disposal hierarchy), the applicant must provide evidence to demonstrate all options above discharging to the highway drain have been exhausted.

2. National Standards for SuDS: Standard 2: management of everyday rainfall (interception)

In line with paragraph 2.6 of the National Standards for SuDS, the applicant must provide evidence to demonstrate that the runoff from each positively drained surface, for at least 5mm of rainfall, is either collected for use, infiltrated into the ground, or else captured, conveyed and stored within SuDS features. These features shall naturally absorb or retain runoff and from these the runoff will be 'lost' to soils or the atmosphere and will not discharge off the site.

3. National Standards for SuDS: Standard 3: management of extreme rainfall and flooding

In accordance with Standard 3 of the National Standards for SuDS, the applicant must provide a drawing demonstrating the overland exceedance routes for flows in excess of the 1 in 100 year plus climate change (40%) rainfall event to demonstrate flood risk is safely managed onsite, without increasing flood risk to people & property.

Once the drainage objections have been resolved, the following information can be managed via condition:

1. Further information is required relating to the surface water drainage strategy:

a) While noting the applicant has provided some example sections of SuDS features, at detailed design, the applicant must provide accurate cross & long sections details, including levels & freeboards, for all SuDS features proposed.

b) At detailed design, further source-control SuDS are required to demonstrate adherence to the National Standards for SuDS (Standards 3, 4, 5 & 6), and water butts to demonstrate rainwater harvesting will be utilised where possible. We note the applicant has stated that these proposals will be realised at detailed design.

c) There is surcharging in the 1 in 2-year event in the modelling submitted by the applicant. The applicant must resubmit this modelling, without any surcharging – except for immediately prior to the outfall.

d) At detailed design, the applicant must provide evidence that the finished floor levels are above the maximum predicted 100-year flood level or if no flooding is predicted, 150mm above the adjacent SW drainage cover levels.

e) While noting the applicant has provided an example maintenance regime, at detailed design the applicant must provide a maintenance strategy that outlines each maintenance activity, the frequency of each activity, and who is responsible for each activity.

   If any maintenance activity will be the responsibility of individual plot owners, the applicant must ensure a copy of the agreed drainage strategy & associated maintenance regime are included in the title deeds of the property.

f) The applicant must submit a construction management plan to demonstrate how flood risk to people & property, and pollution risk to groundwater & watercourses will be mitigated throughout construction.

INFORMATIVES

The applicant must gain consent to discharge foul sewage into the foul sewer system from the local sewerage undertaker.

Wiltshire Council is the land drainage authority under the Land Drainage Act 1991. Land drainage consent is required if a development proposes to discharge flow into an ordinary watercourse or carry out work within 8m of an ordinary watercourse.

An ordinary watercourse is a watercourse that does not form part of a main river. The term watercourse includes all rivers and streams and all ditches, drains, cuts, culverts, dikes, sluices, sewers (other than public sewers within the meaning of the Water Industry Act 1991) and passages, through which water flows.

Wiltshire Council's land drainage bylaws can be downloaded here. The land drainage consent application form and guidance notes can be found on our website here.

RELEVANT PLANNING POLICY & GUIDANCE

National Planning Policy Framework (NPPF) NPPF December 2024 Link
Planning and Flood Risk (Paras 170–182)

Wiltshire Core Strategy – Adopted January 2015 Wiltshire Core Strategy Link
Core Policy 67 requires that all new development must address flood risk from all sources and not increase flood risk elsewhere. It supports the use of Sustainable Drainage Systems (SuDS) and requires that developments demonstrate how surface water will be managed sustainably.

Wiltshire Local Plan (emerging) Local Plan Review Link
Development must avoid high flood risk areas using the sequential approach. Proposals require a Flood Risk Assessment, Surface Water Drainage Strategy, and Groundwater Assessment where relevant. All schemes must include Sustainable Drainage Systems (SuDS), with major developments achieving a 30% reduction in runoff compared to greenfield rates, following the surface water discharge hierarchy.

Culverting and building over watercourses is discouraged, and natural drainage features should be retained or restored. Drainage strategies must ensure safety during extreme flood events (1-in-100-year + climate change) and provide safe access/egress. SuDS should also deliver biodiversity, amenity, and water quality benefits.

Supplementary Planning Documents

Wiltshire Council Drainage Betterment Strategy (2024) SPD Link
This technical guidance outlines expectations for surface water discharge hierarchy, attenuation, exceedance routes, water quality, and post-development monitoring.

Wiltshire Design Guide (March 2024) SPD Link
Includes principles of good design, including integration of SuDS and flood resilience.

Other Relevant Policies and Guidance

Planning Practice Guidance (PPG) – Flood Risk and Drainage Guidance Link
Covers detailed expectations for flood risk assessments, SuDS design, discharge hierarchy, sequential testing and climate change allowances.

Wiltshire SFRA (2024) SFRA Link
This document underpins the Sequential and Exception Test application and provides site screening evidence.

Section 19 Flood Investigation Reports Section 19 Reports Link

These documents summarise investigations into significant local flood incidents and establish what caused the flooding, how authorities responded, and actions needed to prevent future floods.

National Standards for Sustainable Drainage Systems (SuDS) June 2025 Guidance Link
Establishes mandatory criteria for runoff destination hierarchy, interception, flood resilience, water quality, amenity, biodiversity, and long-term maintenance for all new developments in England.

SuDS Manual (CIRIA C753)
This document set outs design principles, especially where attenuation, exceedance routing, and water quality are discussed.

Infiltration drainage design must be supported by ground investigations, including infiltration testing in accordance with *British Research Establishment (BRE) Digest 365 – Soakaway Design*, and groundwater level monitoring that accounts for seasonal variation.

Appendix B

CCTV Survey

Just Surveys Limited

Specialists in Drain Surveys

Dexters 1, Linton Farm
Highnam, Gloucester
Gloucestershire, GL2 8DF
Telephone: 01452 730185
Email: enquiries@just-surveys.co.uk
Website: www.just-surveys.com

Engineers Report

Drain Survey

Plan

Footage

Job Reference Number:	**Date of Report Completion:**
04-26-051	29th April 2026
Site Details: Land at Windsor Drive, Devises	**Client Details:** Robert Hitchins, The Manor, Boddington, Cheltenham, Gloucestershire, GL51 0TJ

Just Surveys Limited

Specialists in Drain Surveys

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Highnam, Gloucester
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Website: www.just-surveys.com

Site	Land at Windsor Drive	Engineer	Sean Jennings

ENGINEERS REPORT

Work Description:

CCTV Camera Drain Survey with High Pressure Water Jetting.

Observations:

Engineers attended site to prove the connectivity of the highway's drainage from manhole 6808 to the outfall at the canal.

We surveyed from manhole 8205 to the canal after tracing 8205 which was buried in the entrance of the new Bellway site and managing to get it uncovered by site.

It was not possible to survey from manhole 6808 to manhole 8205 without traffic management, as the van will need to be sat on the road.
This is a 40 mile per hour road, however, the traffic seems to be driving above the speed limit.
There is also a blind hill on the road, reducing visibility.

Dye testing has been used to prove connectivity between 6808 and 8205.

Just Surveys Limited

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Gloucestershire, GL2 8DF
Telephone: 01452 730185
Email: enquiries@just-surveys.co.uk
Website: www.just-surveys.com

ENGINEERS REPORT

All lines surveyed are grade 1, except:

8203 to 7324L
This line ends at a weir wall before connecting to the canal.
This line is grade 1.

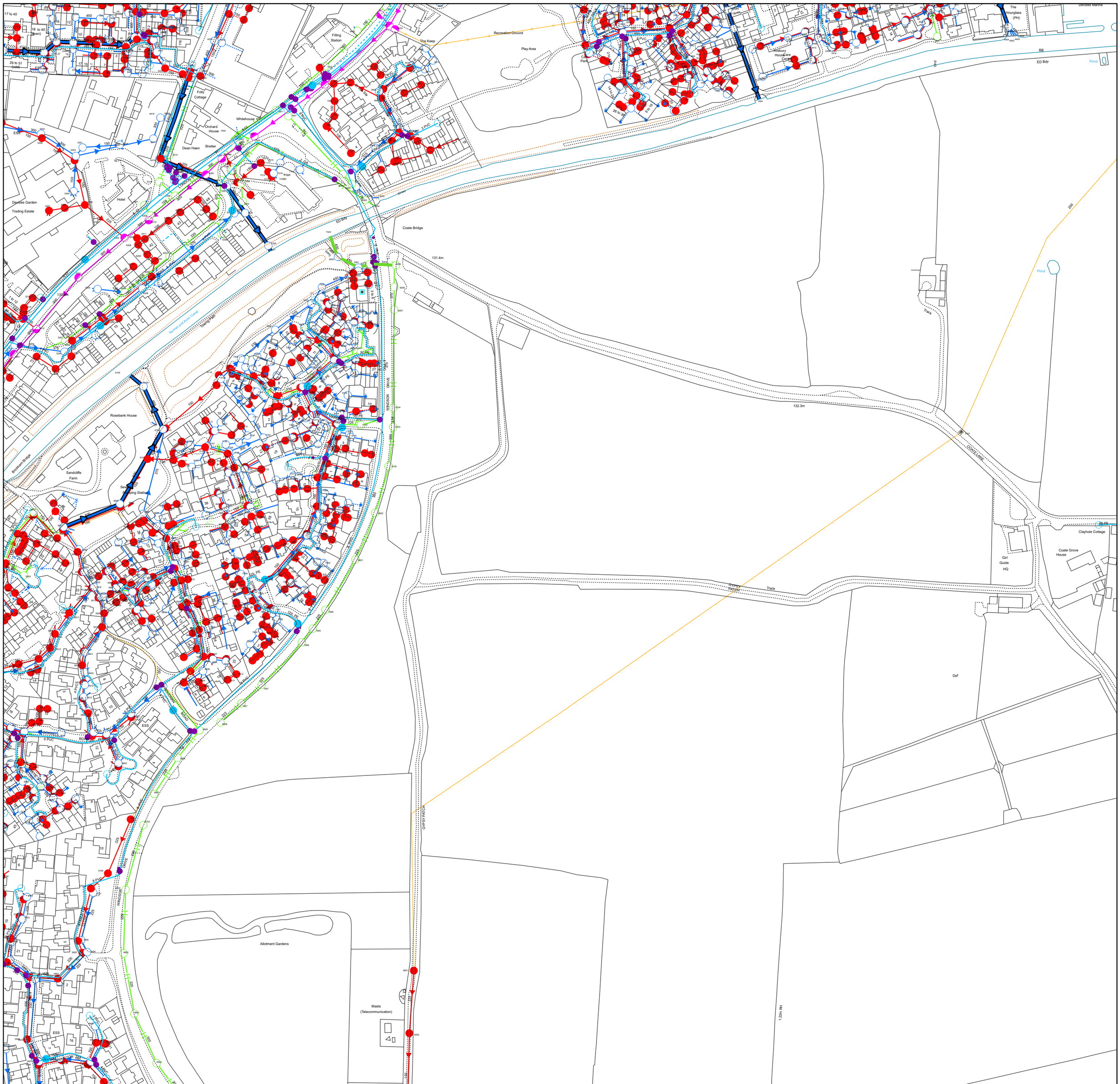
8203 to 7324R
This line ends at a weir wall before connecting to the canal.
This line is grade 1.

8201 to 8204
This line has fine roots at the joints.
This line is in otherwise good condition.

Please be aware of the following:

- Where further jetting is required, including de-greasing, de-scaling and root cutting, etc., prior to the installation of patches, further patches may be required if further faults are revealed after the line has been cleaned.
- Where root ingress has been identified, any delay in remediating the issue will likely increase the damage that the roots are causing.
- Where we have used CAT and Genny to sonde and trace the drain run, due to the variance in the ground we cannot guarantee the location of the drain run and recommend excavating a slip trench to verify the location of the pipe as per the methodology set out in the British Standards Institution PAS 128.
- Please note that Wessex Water drainage specifications state that all drainage is to be laid in 3 metre lengths or less.
- Where lines are laid in Pitch Fibre, we recommend that, where practicable, these lines are re-laid in full.

Coate Lane Devizes



WATER MAINS
- Distribution
- Washout
- Raw Water
- Abandoned
- Private

FITTINGS
- Hydrant
- Other

SEWERS
Foul, Surface, Combined, Abandoned

STRATEGIC | PUBLIC | PRIVATE | SECTION 104

Colours generally indicate the use of the sewer/drain (i.e Red - Foul, Dark Blue - Surface, Magenta - Combined/Dual Use, Light Green - Highway Drain, Mid Green - Overflow).
Some styles of line and symbol are shown on the key in sample/typical colours.

STRUCTURES
- Manhole - Foul
- Manhole - Surface
- Manhole - Combined
- Inlet
- Outfall
- Lamphole
- Bifurcation - Foul
- Bifurcation - Surface
- Bifurcation - Combined
- Combined Sewage Overflow
- Pumping Station - Surface
- Pumping Stn - Foul/Combined
- Gully
- Vent Column
- Rodding Eye
- Catchpit
- Flushing Chamber
- Soakaway
- Non Return Valve
- Air Valve
- Hatch Box
- Washout

OTHER WESSEX PIPES
- Rising Mains
- Standby Rising Mains
- Effluent Disposal
- Overflow
- Syphon

NON-WESSEX / UNKNOWN
- Private Rising Mains
- Culverted Watercourse
- Highway Drain
- Use Unknown
- Status Unknown

OTHER STRUCTURES
- Attenuation Tank
- Storage Tank
- Chamber
- Tunnel
- Interceptor

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Information in this map is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies. Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown. In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located. If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. If you are proposing to build over or near Wessex Water's apparatus you should contact the Developer Services Team, tel: 01225 526333 or e-mail: developer.enquiries@wessexwater.co.uk to discuss your proposals. Details of assets within Wessex Water's land ownership are unavailable through this service.

Date: 10/04/2025
Centre: 402000E, 162020N
Scale: 1:2,500
(when printed at A2 size)

N W E S

Project Information

Just Surveys Ltd
Dexters 1
Linton Farm
Highnam
Gloucester
Gloucestershire
GL2 8DF

Job Number	Surveyed by (Operator)	Base Unit	Date
04-26-051	**Sean Jennings**	**AX1339BRES**	**27/04/2026**

Client Details:

Robert Hitchins
The Manor
Boddington
Cheltenham
Gloucestershire
GL510TJ

Site Details:

Land at Windsor Drive
Devizes

Contractor Details:

Just Surveys Ltd
Dexters 1
Linton Farm
Highnam
Gloucester
Gloucestershire
GL2 8DF

Office Contact Number: 01452 730 185

Purpose of Survey:

Job Number	Surveyed by (Operator)	Base Unit	Date
04-26-051	**Sean Jennings**	**AX1339BRES**	**27/04/2026**

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Page 9 Survey Run Sheet(Survey 5 - 8204 to 8205)

Page 10 Defect Summary

Page 12 Job Summary

Just Surveys Ltd
Dexters 1
Linton Farm
Highnam
Gloucester
Gloucestershire
GL2 8DF

Defect Grade Descriptions

Job Number	Surveyed by (Operator)	Base Unit	Date
04-26-051	**Sean Jennings**	**AX1339BRES**	**27/04/2026**

1: Occurences without damage. For example, laterals, joints,etc.

NO DEFECTS WERE DETECTED.

2: Constructional deficiencies or occurences with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3: Constructional deficiencies diminishing static, hydraulic and tightness: Eg. untorched intakes, cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.

REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.

4: Constructional damages with insufficent static safety, hydraulic or tightness: Eg. axial/radial pipe bursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.

REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS. NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.

5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.

REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE, NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.

Service Grade Descriptions

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Job Number	Surveyed by (Operator)	Base Unit	Date
04-26-051	**Sean Jennings**	**AX1339BRES**	**27/04/2026**

1: No obstructions in line

NO CLEANING REQUIRED

2: Small traces of obstructions in line

RECOMMEND CLEANING TO PREVENT BUILD UP

3: Obstructions in the line are restricting full flow of pipework

CLEANING REQUIRED TO REMOVE DEBRIS FROM THE LINE AND THEREFORE INCREASE THE FLOW

4: Obstructions in the pipework are significantly restricting full flow of the pipework

EXTENSIVE CLEANING REQUIRED TO REMOVE OBSTRUCTIONS WHICH WILL DECREASE THE BORE OF THE PIPE

5: Obstructions are causing problems in the drainage

IMMEDIATE CLEANING REQUIRED TO REMOVE OBSTRUCTIONS

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Surveyed by (Operator)	Job Number	Base Unit	Date	Weather
Sean Jennings	**04-26-051**	**AX1339BRES**	**27/04/2026**	**1 - Dry**
Cleaned	Surrounding Material	Start Reference	End Reference	Section Number
Not Cleaned	**Tarmac**	**8201**	**8203**	**1**

Site Address **Land at Windsor Drive**
Devizes

Duty: **Surface water**	Size: **450mm**	Start MH **8201 (Depth: 3.09 metres)**
Length Surveyed: **17.12**	Material **Concrete**	End MH **8203**

Scale **1:0.90**
Direction **Downstream**

M/H Ref:8201 | I/L : metres | M/H Depth: 3.09 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference 8201	14743279	Comment
0.00	WL	Water level 0% height/diameter	14743281	Comment
17.12	MHF	Finish node type, manhole, reference 8203	14743409	Comment

M/H Ref:8203 | I/L : metres

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Surveyed by (Operator)	Job Number	Base Unit	Date	Weather
Sean Jennings	**04-26-051**	**AX1339BRES**	**27/04/2026**	**1 - Dry**
Cleaned	Surrounding Material	Start Reference	End Reference	Section Number
Not Cleaned	**Tarmac**	**8203**	**7324L**	**2**

Site Address **Land at Windsor Drive**
Devizes

Duty: **Surface water**	Size: **450mm**	Start MH **8203 (Depth: 2.60 metres)**
Length Surveyed: **6.22**	Material **Concrete**	End MH **7324L**

Scale **1:0.33**
Direction **Downstream**

M/H Ref:8203 | I/L : metres | M/H Depth: 2.60 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference 8203	14743411	Comment
0.00	WL	Water level 5% height/diameter	14743414	Comment
6.22	OFF	Finish node type, outfall, reference 7324L	14743437	Comment

M/H Ref:7324L | I/L : metres

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Surveyed by (Operator)	Job Number	Base Unit	Date	Weather
Sean Jennings	**04-26-051**	**AX1339BRES**	**27/04/2026**	**1 - Dry**
Cleaned	Surrounding Material	Start Reference	End Reference	Section Number
Not Cleaned	**Tarmac**	**8203**	**7324R**	**3**

Site Address **Land at Windsor Drive**
Devizes

Duty: **Surface water**	Size: **450mm**	Start MH **8203 (Depth: 2.60 metres)**
Length Surveyed: **6.5**	Material **Concrete**	End MH **7324R**

Scale **1:0.34**
Direction **Downstream**

M/H Ref:8203 | I/L : metres | M/H Depth: 2.60 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference 8203	14743606	Comment
0.00	WL	Water level 0% height/diameter	14743609	Comment
6.50	OFF	Finish node type, outfall, reference 7324R	14743631	Comment

M/H Ref:7324R | I/L : metres

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Surveyed by (Operator)	Job Number	Base Unit	Date	Weather
Sean Jennings	**04-26-051**	**AX1339BRES**	**27/04/2026**	**1 - Dry**
Cleaned	Surrounding Material	Start Reference	End Reference	Section Number
Not Cleaned	**Tarmac**	**8201**	**8204**	**4**

Site Address **Land at Windsor Drive**
Devizes

Duty: **Surface water**	Size: **375mm**	Start MH **8201 (Depth: 3.09 metres)**
Length Surveyed: **11.17**	Material **Concrete**	End MH **8204 (Invert: 4.13 metres)**

Scale **1:0.59**
Direction **Upstream**

M/H Ref:8201 | I/L : metres | M/H Depth: 3.09 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference 8201	14743804	Comment
0.00	WL	Water level 0% height/diameter	14743807	Comment
4.45	RFJ	Roots fine, at joint	14746170	Service / 2
6.76	RFJ	Roots fine, at joint	14746172	Service / 2
9.04	RFJ	Roots fine, at joint	14746184	Service / 2
9.63	RF	Roots fine	14746186	Service / 2
11.17	MHF	Finish node type, manhole, reference 8204	14743831	Comment

M/H Ref:8204 | I/L : metres | M/H Depth: 4.13 metres

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Surveyed by (Operator)	Job Number	Base Unit	Date	Weather
Sean Jennings	**04-26-051**	**AX1339BRES**	**27/04/2026**	**1 - Dry**
Cleaned	Surrounding Material	Start Reference	End Reference	Section Number
Not Cleaned	**Soil**	**8204**	**8205**	**5**

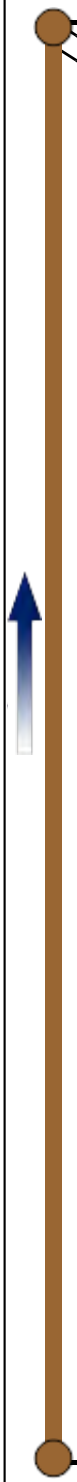
Site Address **Land at Windsor Drive**
Devizes

Duty: **Surface water**	Size: **375mm**	Start MH **8204 (Depth: 4.13 metres)**
Length Surveyed: **15.76**	Material **Concrete**	End MH **8205**

Scale **1:0.83**
Direction **Upstream**

M/H Ref:8204 | I/L : metres | M/H Depth: 4.13 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference 8204	14743850	Comment
0.00	WL	Water level 0% height/diameter	14743853	Comment
0.28	CN	Connection other than junction at 11 o'clock, diameter 150mm	14746203	Comment



15.76	CPF	Finish node type, catchpit, reference 8205	14743881	Comment

M/H Ref:8205 | I/L : metres

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Structural Defects (SRM 4)

Job Number	Surveyed by (Operator)	Base Unit	Date
04-26-051	**Sean Jennings**	**AX1339BRES**	**27/04/2026**

No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	8201 X	D	S	450	27/04/2026	Concrete	17.12 metres	17.12		0	1	0	0
2	8203 X	D	S	450	27/04/2026	Concrete	6.22 metres	6.22		0	1	0	0
3	8203 X	D	S	450	27/04/2026	Concrete	6.5 metres	6.5		0	1	0	0
4	8204 X	U	S	375	27/04/2026	Concrete	11.17 metres	11.17		0	1	0	0
5	8205 X	U	S	375	27/04/2026	Concrete	15.76 metres	15.76		0	1	0	0

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Service Defects (SRM 4)

Job Number	Surveyed by (Operator)	Base Unit	Date
04-26-051	**Sean Jennings**	**AX1339BRES**	**27/04/2026**

No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	8201 X	D	S	450	27/04/2026	Concrete	17.12 metres	17.12		0	1	0	0
2	8203 X	D	S	450	27/04/2026	Concrete	6.22 metres	6.22		0	1	0	0
3	8203 X	D	S	450	27/04/2026	Concrete	6.5 metres	6.5		0	1	0	0
4	8204 X	U	S	375	27/04/2026	Concrete	11.17 metres	11.17		1	2	0.36	4
5	8205 X	U	S	375	27/04/2026	Concrete	15.76 metres	15.76		0	1	0	0

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Report Summary

Job Number	Surveyed by (Operator)	Base Unit	Date
04-26-051	**Sean Jennings**	**AX1339BRES**	**27/04/2026**

Job Information

Total Distance Surveyed: **56.77 metres**
Engineer: **Sean Jennings**
Number of Surveys: **5**
Number of Surveys grade 4 or above: **0**

Section 1 Overview (27/04/2026)

Manholes: **8201 to 8203**
Pipe Length: **17.12 metres**
Structural Grade: **1**
Service Grade: **1**
Material: **Concrete**
Pipe Size: **450mm**
Use: **Surface water**

This line is grade 1.

Section 2 Overview (27/04/2026)

Manholes: **8203 to 7324L**
Pipe Length: **6.22 metres**
Structural Grade: **1**
Service Grade: **1**
Material: **Concrete**
Pipe Size: **450mm**
Use: **Surface water**

This line ends at a weir wall before connecting to the canal. This line is grade 1.

Section 3 Overview (27/04/2026)

Manholes: **8203 to 7324R**
Pipe Length: **6.5 metres**
Structural Grade: **1**
Service Grade: **1**
Material: **Concrete**
Pipe Size: **450mm**
Use: **Surface water**

This line ends at a weir wall before connecting to the canal. This line is grade 1.

Section 4 Overview (27/04/2026)

Manholes: **8201 to 8204**
Pipe Length: **11.17 metres**
Structural Grade: **1**
Service Grade: **2**
Material: **Concrete**
Pipe Size: **375mm**
Use: **Surface water**

This line has fine roots at the joints.
Otherwise the line is in good condition.

Section 5 Overview (27/04/2026)

Manholes: **8204 to 8205**
Pipe Length: **15.76 metres**
Structural Grade: **1**
Service Grade: **1**
Material: **Concrete**
Pipe Size: **375mm**
Use: **Surface water**

This line is grade 1.

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Website: www.just-surveys.co.uk

Manhole Inspection Surveys

Date	Weather	Surveyor	Job Number
27/04/26	Dry	Sean Jennings	04 26 051
Location	Cover Level	Northings	Eastings
	Metres		

Manhole Name:	8205	**Use:** Storm
Status:	Highways	
Manhole material:	Concrete	
Lid Shape:	Square	
Lid Size:	700 MM x 700 MM	
Lid Type:	Heavy Duty	
Depth:	3.4800 METRES	
Number of Connections:	3	
Condition of frame and cover:	Good	
Condition of shaft:	Good	
Condition of ladder:	Good	
Condition of chamber:	Good	
Condition of benching and channels:	Not Present	
Photo Taken:	Yes	

Connections from manhole:

TO: 8204	**FROM:** 8206	**FROM:** Lat A	**FROM:**	**FROM:**
Depth: 3.4800 M	**Depth:** 3.4800 M	**Depth:** 3.2000 M	**Depth:** M	**Depth:** M
Pipe Size: 375 MM	**Pipe Size:** 375 MM	**Pipe Size:** 150 MM	**Pipe Size:** MM	**Pipe Size:** MM
Material: Concrete	**Material:** Concrete	**Material:** VC	**Material:**	**Material:**
Invert: M	**Invert:** M	**Invert:** M	**Invert:** M	**Invert:** M
FROM:	**FROM:**	**FROM:**	**FROM:**	**FROM:**
Depth: M	**Depth:** M	**Depth:** M	**Depth:** M	**Depth:** M
Pipe Size: MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM
Material:	**Material:**	**Material:**	**Material:**	**Material:**
Invert: M	**Invert:** M	**Invert:** M	**Invert:** M	**Invert:** M

Evidence of misconnections:	
Other Remarks:	

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Manhole Inspection Surveys

Date	Weather	Surveyor	Job Number
27/04/26	Dry	Sean Jennings	04 26 051
Location	Cover Level	Northings	Eastings
	Metres		

Manhole Name:	8204	**Use:** Storm
Status:	Highways	
Manhole material:	Concrete	
Lid Shape:	Square	
Lid Size:	700 MM x 700 MM	
Lid Type:	Heavy Duty	
Depth:	4.1300 METRES	
Number of Connections:	2	
Condition of frame and cover:	Good	
Condition of shaft:	Good	
Condition of ladder:	Good	
Condition of chamber:	Good	
Condition of benching and channels:	Good	
Photo Taken:	Yes	

Connections from manhole:

TO: 8201	**FROM:** 8205	**FROM:**	**FROM:**	**FROM:**
Depth: 4.1300 M	**Depth:** 4.1300 M	**Depth:** M	**Depth:** M	**Depth:** M
Pipe Size: 375 MM	**Pipe Size:** 375 MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM
Material: Concrete	**Material:** Concrete	**Material:**	**Material:**	**Material:**
Invert: M	**Invert:** M	**Invert:** M	**Invert:** M	**Invert:** M
FROM:	**FROM:**	**FROM:**	**FROM:**	**FROM:**
Depth: M	**Depth:** M	**Depth:** M	**Depth:** M	**Depth:** M
Pipe Size: MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM
Material:	**Material:**	**Material:**	**Material:**	**Material:**
Invert: M	**Invert:** M	**Invert:** M	**Invert:** M	**Invert:** M

Evidence of misconnections:	
Other Remarks:	

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Manhole Inspection Surveys

Date	Weather	Surveyor	Job Number
27/04/26	Dry	Sean Jennings	04 26 051
Location	Cover Level	Northings	Eastings
	Metres		

Manhole Name:	8201	**Use:** Storm
Status:	Highways	
Manhole material:	Concrete	
Lid Shape:	Square	
Lid Size:	700 MM x 700 MM	
Lid Type:	Heavy Duty	
Depth:	3.0900 METRES	
Number of Connections:	4	
Condition of frame and cover:	Good	
Condition of shaft:	Good	
Condition of ladder:	Good	
Condition of chamber:	Good	
Condition of benching and channels:	Good	
Photo Taken:	Yes	

Connections from manhole:

TO: 8203	**FROM:** 8204	**FROM:** 8208	**FROM:** 8222	**FROM:**
Depth: 3.0900 M	**Depth:** 3.0900 M	**Depth:** 3.0900 M	**Depth:** 2.9700 M	**Depth:** M
Pipe Size: 450 MM	**Pipe Size:** 375 MM	**Pipe Size:** 450 MM	**Pipe Size:** 150 MM	**Pipe Size:** MM
Material: Concrete	**Material:** Concrete	**Material:** Concrete	**Material:** PVC	**Material:**
Invert: M	**Invert:** M	**Invert:** M	**Invert:** M	**Invert:** M
FROM:	**FROM:**	**FROM:**	**FROM:**	**FROM:**
Depth: M	**Depth:** M	**Depth:** M	**Depth:** M	**Depth:** M
Pipe Size: MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM
Material:	**Material:**	**Material:**	**Material:**	**Material:**
Invert: M	**Invert:** M	**Invert:** M	**Invert:** M	**Invert:** M

Evidence of misconnections:	
Other Remarks:	

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Manhole Inspection Surveys

Date	Weather	Surveyor	Job Number
27/04/26	Dry	Sean Jennings	04 26 051
Location	Cover Level	Northings	Eastings
	Metres		

Manhole Name:	8203	**Use:** Storm
Status:	Highways	
Manhole material:	Concrete	
Lid Shape:	Square	
Lid Size:	700 MM x 700 MM	
Lid Type:	Heavy Duty	
Depth:	2.6000 METRES	
Number of Connections:	3	
Condition of frame and cover:	Good	
Condition of shaft:	Good	
Condition of ladder:	Good	
Condition of chamber:	Good	
Condition of benching and channels:	Good	
Photo Taken:	Yes	

Connections from manhole:

TO: 7324R	**FROM:** To 7324L	**FROM:** 8201	**FROM:**	**FROM:**
Depth: 2.6000 M	**Depth:** 2.6000 M	**Depth:** 2.6000 M	**Depth:** M	**Depth:** M
Pipe Size: 450 MM	**Pipe Size:** 450 MM	**Pipe Size:** 450 MM	**Pipe Size:** MM	**Pipe Size:** MM
Material: Concrete	**Material:** Concrete	**Material:** Concrete	**Material:**	**Material:**
Invert: M	**Invert:** M	**Invert:** M	**Invert:** M	**Invert:** M
FROM:	**FROM:**	**FROM:**	**FROM:**	**FROM:**
Depth: M	**Depth:** M	**Depth:** M	**Depth:** M	**Depth:** M
Pipe Size: MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM	**Pipe Size:** MM
Material:	**Material:**	**Material:**	**Material:**	**Material:**
Invert: M	**Invert:** M	**Invert:** M	**Invert:** M	**Invert:** M

Evidence of misconnections:	
Other Remarks:	

MANHOLE 6808 DYE TEST

MANHOLE 8205 LOCATE

MANHOLE S205 UNCOVERED

MANHOLE 8205 DYE TEST

MANHOLE 8205

MANHOLE 8204

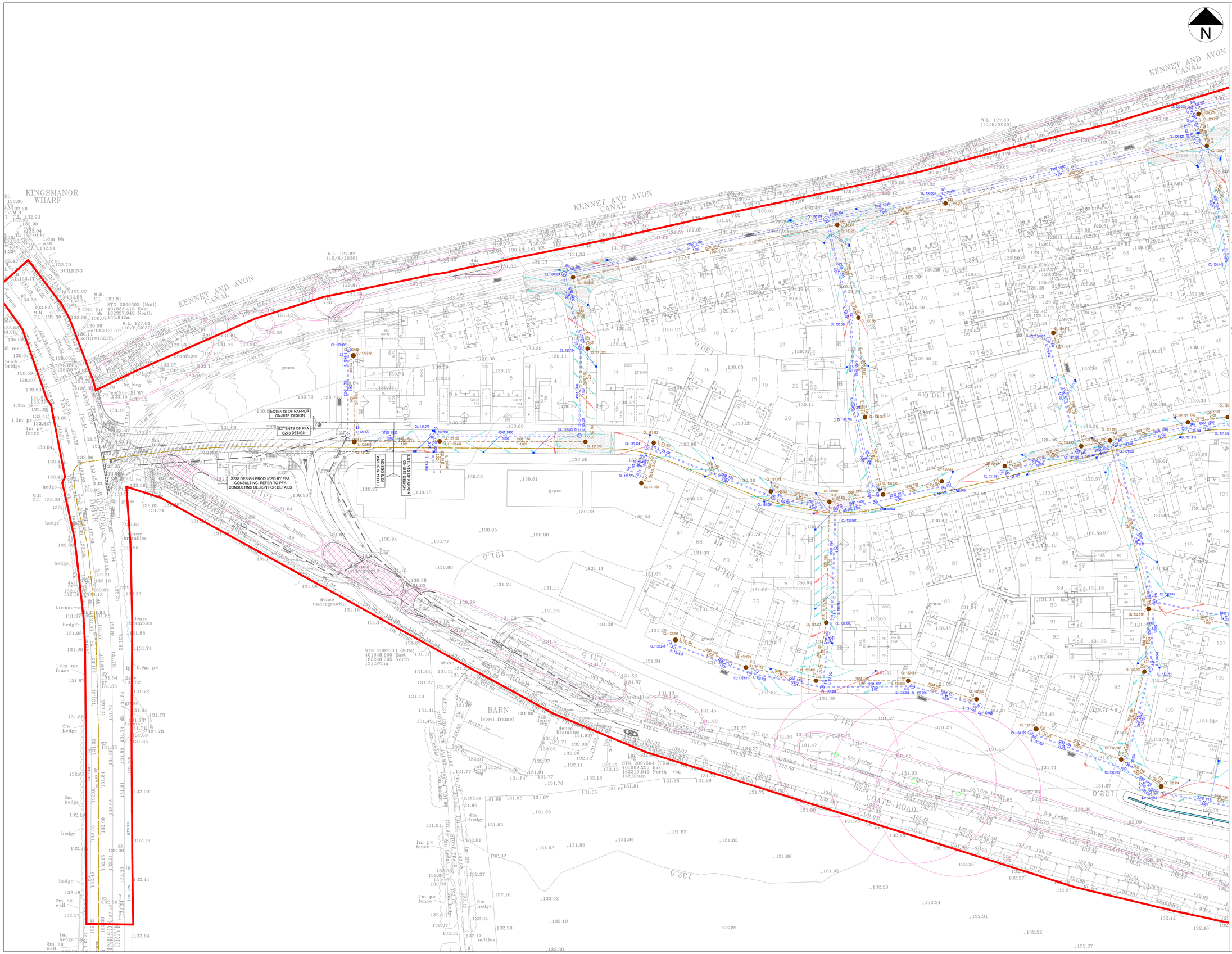
MANHOLE 8201

MANHOLE 8203

OUTFALL TO CANAL 7324

Appendix C

Bellway Drainage Plan



Notes:

1. Do not scale from this drawing. All dimensions are in metres, unless stated otherwise.
2. This drawing is based on the layout P23-1651_01_DE_01AB, 03.03.2025.
3. Ordnance Survey, (c) Crown Copyright 2023. All rights reserved. Licence number 100022432.
4. Drawing to be read in conjunction with all other drawings. Any discrepancies are to be reported to the engineer 5 working days in advance of undertaking any work.
5. Refer to Phoenix drainage strategy - rising main to outfall either to the existing foul sewer in Windor Drive (as sketched) or south towards Gypsy Patch - to be agreed with Wessex Water.
6. Proposed swales to drain discrete sections of highways, adjacent private drives and POS footpaths.

Key:

- PROPOSED SURFACE WATER SEWER
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED FOUL WATER SEWER
- PROPOSED FOUL WATER MANHOLE
- PROPOSED FOUL PUMPING STATION
- PROPOSED RISING MAIN. REFER TO NOTE 5
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SWALE. REFER TO NOTE 6
- EXISTING ROOT PROTECTION AREA

0 5m 10m 20m 30m 40m

Scale 1:500

Rev	Date	Details	By	Chkd
P09	03.03.25	LAYOUT UPDATED. BAYS 59 - 66 MOVED	LB	LB
P08	13.02.25	UPDATED LAYOUT	LB	RS
P07	17.01.25	REVISED FOLLOWING MASTERPLAN UPDATE	RH	RAS
P06	09.01.25	REV'D FOLLOEING UPDATED MASTERPLAN	RP	RAS
P05	20.12.24	UPDATED MASTERPLAN	LB	RAS
P04	23.10.24	ADDED SCALE BAR	LH	LB
P03	04.10.24	REVISED FOLLOWING MASTERPLAN UPDATE	RH	LB
P02	02.10.24	UPDATED LAYOUT AROUND BASIN	LB	RS
P01	01.10.24	FIRST ISSUE	LB	RS

rappor

rappor.co.uk

CLIENT: Bellway Homes Ltd (South West)

PROJECT: Land at Coate Road, Devizes

TITLE: DRAINAGE LAYOUT SHEET 1 OF 2

SCALE @ A1:	DATE:	DRAWN:	CHECKED:	APPROVED:
1:500	01.10.2024	LB	RS	RS

STATUS: PLANNING

DRAWING NO: 240322-RAP-XX-XX-DR-C-3101

REVISION: P09

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Appendix D

Drainage Plans (Hydraulic Modelling)

N

Coate Bridge

EXISTING TWIN 450mmØ SURFACE WATER SEWER OUTFALL TO CANAL WATER LEVEL = 127.87mAOD

450mmØ SURFACE WATER SEWER OUTFALL TO CANAL

Path (4m)

EXISTING 450mmØ SURFACE WATER SEWER

EXISTING 450mmØ SURFACE WATER SEWER

RESIDENTIAL DEVELOPMENT 4300 m² / 43 No. IMP 2400m² / 24 No. IMP

FATS 1400m2 x 80% = AREA = 1120m2

WINDSOR DRIVE

COATE ROAD

EXISTING HIGHWAY ONLY CONNECT TO MANHOLE

EXISTING 225mmØ HIGHWAY DRAIN

VEGETATION

BARN (metal)

BARN (steel frame)

FLOW FROM COATE ROAD NORTH ONTO LAND NORTH OF COATE ROAD

DITCH OUTFALL NOT IDENTIFIED

LOW FLOW COATE ROAD 131.38mAOD / 131.23mAOD

OVERFLOW FROM DITCH

COATE RO

EXISTING DITCH

EXISTING DITCH

EXISTING 225mmØ HIGHWAY DRAIN

EXISTING 225mmØ HIGHWAY DRAIN

EXISTING 150mmØ FOUL SEWER

SEWER FLOWS TO SEVERN STORAGE TREATMENT WORKS

EXISTING WELSH WATER 225mmØ FOUL SEWER

HAREBELL WAY

HAREBELL WAY

CRANEBELL ROAD

WINDSOR DRIVE

COWSLIP CLOSE

ESS

TORNIO CLOSE

TORNIO CLOSE

MATILDA WAY

PROUDMAN ROAD

PROUDMAN ROAD

WINDSOR DRIVE

LIDAR LEVEL DATA

LIDAR LEVEL DATA

LIDAR LEVEL DATA

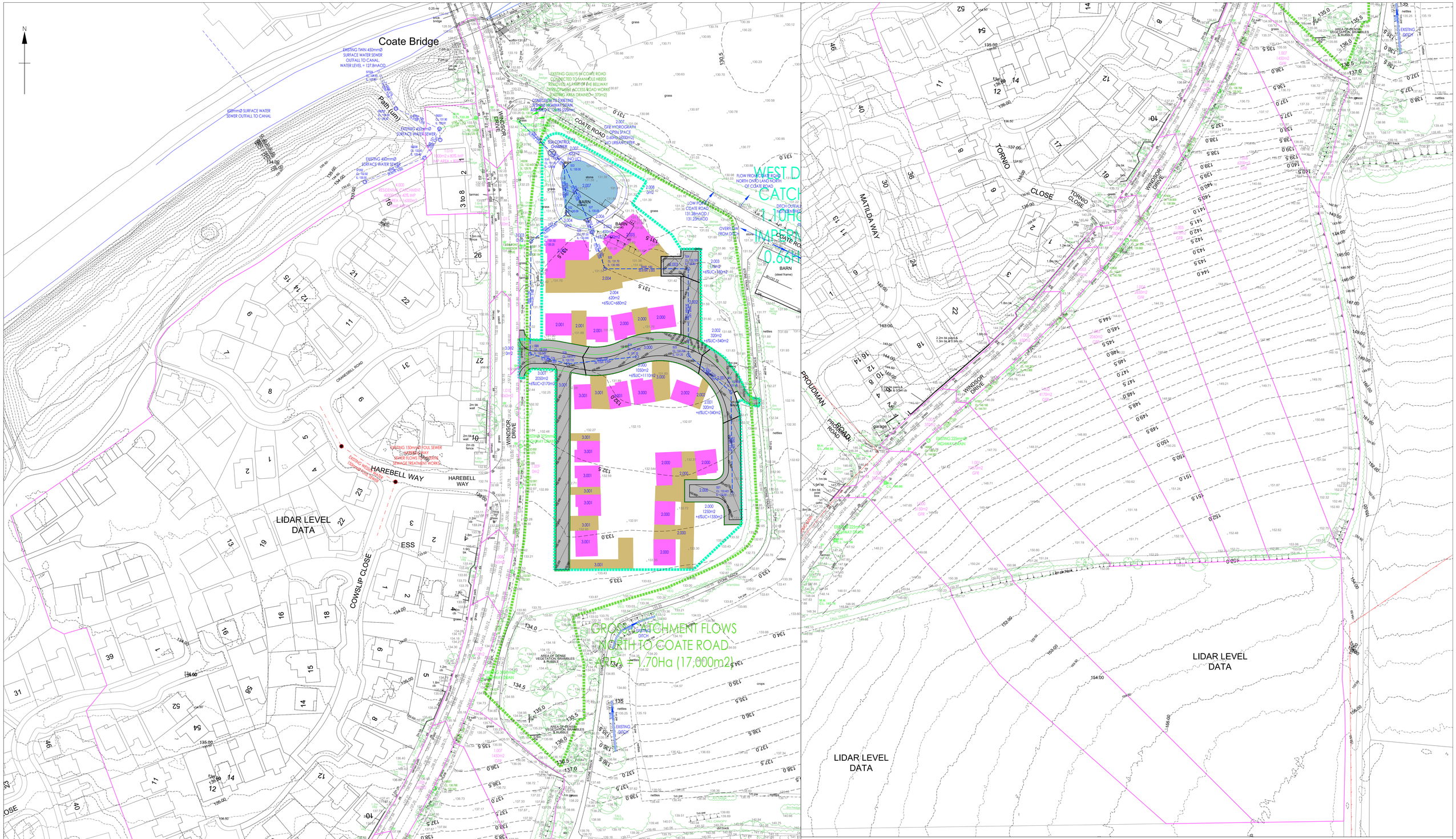
AREA OF DENSE VEGETATION, BRAMBLES & RUBBLE

AREA OF DENSE VEGETATION, BRAMBLES & RUBBLE

EXISTING DITCH

EXISTING DITCH

EXISTING DITCH



IMPERMEABLE AREAS - LAND SOUTH OF COATE ROAD - WEST (c. 40 DWELLINGS)

DEVELOPMENT AREA CATCHMENT = 11,000m2

HIGHWAYS = 2,490m2 (40%)

ROOFS = 1,760m2 (28%)

DRIVES/PARKING = 1,640m2 (27%)

ATTENUATION POND = 400m2 (5%)

IMPERMEABLE AREA = 6,290m2

DESIGN CONTINGENCY = 310m2 (5%)

TOTAL = 6,600m2 (0.660Ha)

APPLICATION CATCHMENT (EXCL. EX. HWAY.)	=	1.700Ha
DEVELOPMENT AREA CATCHMENT	=	1.100Ha (65%)
OPENSPACE AREA IN APPLICATION AREA	=	0.600Ha (35%)
IMPERMEABLE AREA	=	0.660Ha (60%)
GARDENS & LANDSCAPE IN DEVELOPMENT AREA	=	0.440Ha (40%)

URBAN CREEP = 10% (ROOFS & DRIVES/PARKING) = 6% (ADDED TO IMP AREAS)

AVON HAMPSHIRE MANAGEMENT CATCHMENT PEAK RAINFALL ALLOWANCES

CLIMATE CHANGE ALLOWANCE 1:30 EVENT = 40%

CLIMATE CHANGE ALLOWANCE 1:100 EVENT = 45%

0 10 20 30 40 50
Metres (Scale 1:500)

Revisions

Project: Land South of Coate Road Devizes

Client:

Robert Hitchins
The Complete Development Solution

Drawing: Existing Windsor Road Drainage + West Development Area

Scale: 1:500 @ A0 Date: 27/05/2026 Drawn by: P.A.

Drawing No: 639-P108 Rev: -

PHOENIX DESIGN Partnership Ltd.
The Old Schoolhouse, St John's Road, S. Parade, Bath, BA2 4AF tel. 01225 263020
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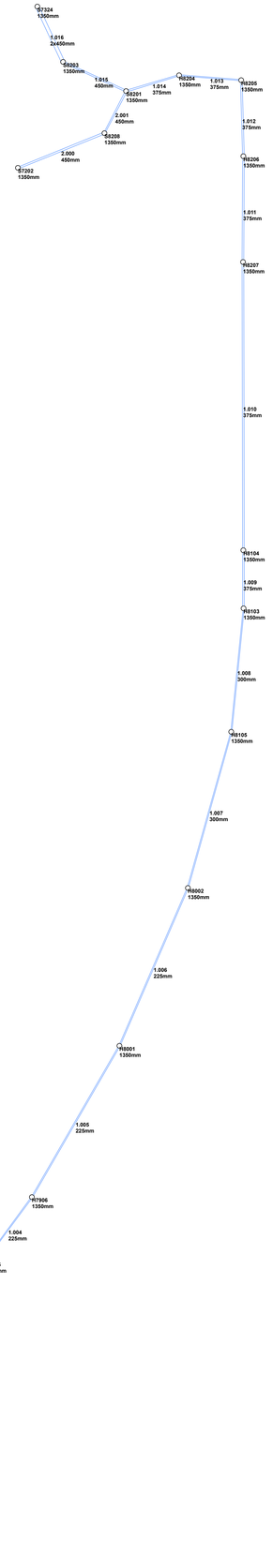
Drg.Status: FOR APPROVAL

Appendix E

Causeway Flow Caculations

EXISTING WINDSOR DRIVE DRAINAGE



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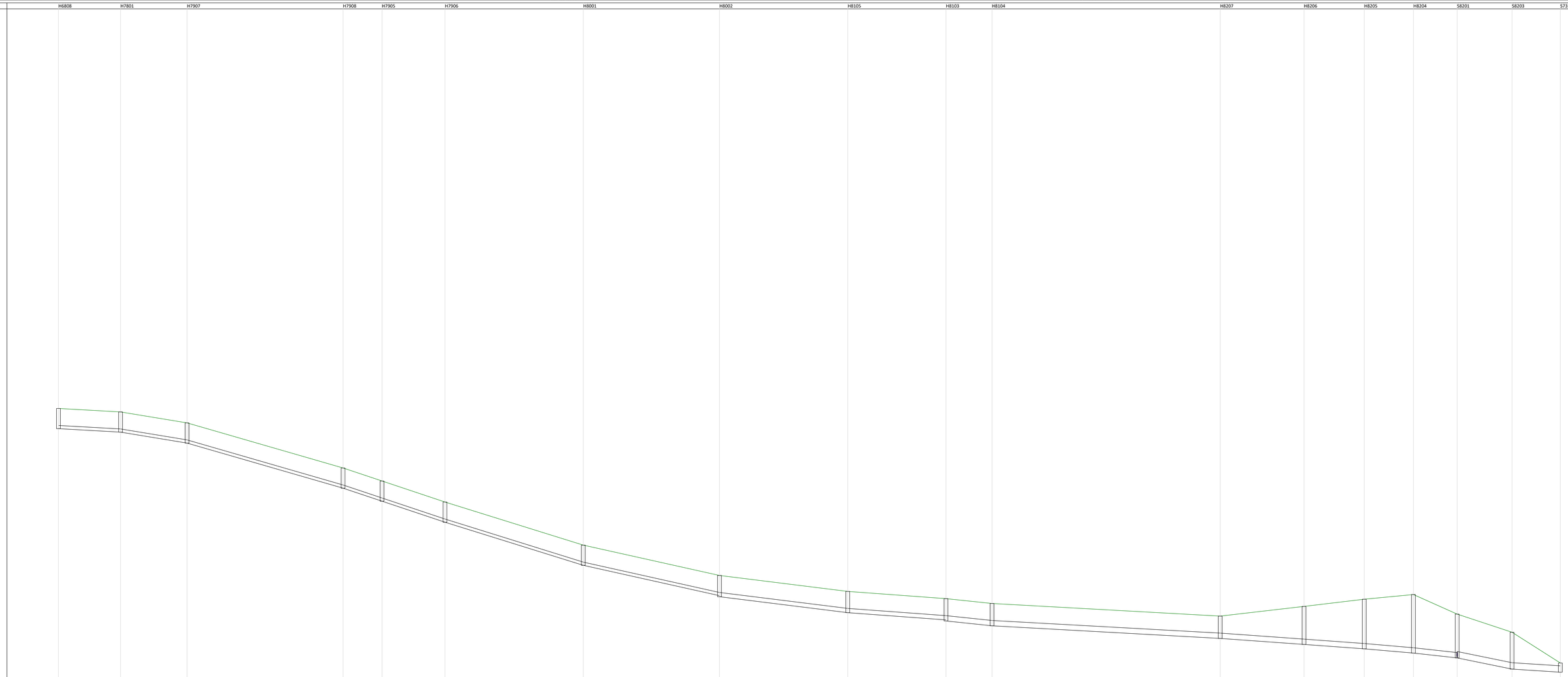
Phoenix Design Partnership Ltd.
The Old School House
St James's Road, South Parade
BATH, BA2 4AF

File: 639-EXISTING WEST DRAINAGE.pfd
Network:
George Ballard
27/05/2026

Page 1
EXISTING WEST DRAINAGE
LAND SOUTH OF COATE ROAD
ROBERT HITCHINS LTD.



Node Name	H6808	H7801	H7907	H7908	H7905	H7906	H8001	H8002	H8105	H8103	H8104	H8207	H8206	H8205	H8204	S8201	S8203	S7324
A0 drawing Hor Scale 500 Ver Scale 100 Datum (m) 100.000																		
Link Name	1.000	1.001	1.002	1.003	1.004	1.005	1.006	1.007	1.008	1.009	1.010	1.011	1.012	1.013	1.014	1.015	1.016	
Section Type	225mm	225mm	225mm	225mm	225mm	225mm	225mm	300mm	300mm	375mm	375mm	375mm	375mm	375mm	375mm	450mm	2x450mm	
Slope (1:X)	89.1	30.4	17.3	15.0	15.0	16.1	22.4	40.2	68.0	47.6	90.4	69.7	68.6	57.9	45.4	24.5	77.5	
Cover Level (m)	146.412	146.166	145.393	142.211	141.294	139.809	136.768	134.627	133.501	132.991	132.650	131.759	132.443	132.950	133.280	131.900	130.620	128.450
Invert Level (m)	144.587	144.741	143.568	140.786	139.869	138.384	135.343	133.202	132.001	132.491	132.071	130.184	129.760	129.450	129.150	128.810	128.020	127.800
Length (m)	21.922	23.469	55.068	13.736	22.231	48.817	48.060	45.284	34.671	16.239	80.542	29.565	21.263	17.370	15.419	19.375	17.050	

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Node Name		S7202	S8208	S8201
A0 drawing Hor Scale 500 Ver Scale 100 Datum (m) 94.000				
Link Name		2.000	2.001	
Section Type		450mm	450mm	
Slope (1:X)		45.6	21.3	
Cover Level (m)		132.920	132.430	131.900
Invert Level (m)		130.000	129.430 129.430	128.810
Length (m)		26.007	13.220	

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EXISTING WINDSOR DRIVE DRAINAGE - CRITICAL EVENTS

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Circular Link Type

Template	Freeform Carrier	Barrels	1	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)
100 | 150

Twin Link Type

Template	Freeform Carrier	Barrels	2	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)
150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
H6808	0.020	5.00	146.412	1350	401697.439	161876.655	1.425	144.987
H7801	0.037	5.00	146.166	1350	401713.855	161891.185	1.425	144.741
H7907	0.065	5.00	145.393	1350	401731.373	161906.803	1.425	143.968
H7908	0.029	5.00	142.211	1350	401769.280	161946.748	1.425	140.786
H7905	0.028	5.00	141.294	1350	401777.615	161957.666	1.425	139.869
H7906	0.035	5.00	139.809	1350	401790.716	161975.627	1.425	138.384
H8001	0.056	5.00	136.768	1350	401815.128	162017.903	1.425	135.343
H8002	0.061	5.00	134.627	1350	401834.219	162062.008	1.500	133.127
H8105	0.036	5.00	133.501	1350	401846.306	162105.649	1.500	132.001
H8103			132.991	1350	401849.746	162140.149	1.575	131.416
H8104	0.106	5.00	132.650	1350	401849.680	162156.388	1.575	131.075
H8207	0.075	5.00	131.759	1350	401849.600	162236.930	1.575	130.184
H8206	0.053	5.00	132.443	1350	401849.685	162266.494	2.683	129.760
H8205	0.037	5.00	132.950	1350	401849.082	162287.748	3.500	129.450
H8204			133.280	1350	401831.765	162289.104	4.130	129.150
S7202		5.00	132.920	1350	401786.819	162263.249	2.920	130.000
S8208			132.430	1350	401810.955	162272.932	3.000	129.430
S8201	0.080	5.00	131.900	1350	401816.990	162284.694	3.090	128.810
S8203			130.620	1350	401799.417	162292.854	2.600	128.020
S7324			128.450	1350	401792.231	162308.316	0.650	127.800

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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	H6808	H7801	21.922	0.600	144.987	144.741	0.246	89.1	225	5.26	50.0
1.001	H7801	H7907	23.469	0.600	144.741	143.968	0.773	30.4	225	5.43	50.0
1.002	H7907	H7908	55.068	0.600	143.968	140.786	3.182	17.3	225	5.72	48.9
1.003	H7908	H7905	13.736	0.600	140.786	139.869	0.917	15.0	225	5.79	48.6
1.004	H7905	H7906	22.231	0.600	139.869	138.384	1.485	15.0	225	5.89	48.2
1.005	H7906	H8001	48.817	0.600	138.384	135.343	3.041	16.1	225	6.14	47.4
1.006	H8001	H8002	48.060	0.600	135.343	133.202	2.141	22.4	225	6.43	46.4
1.007	H8002	H8105	45.284	0.600	133.127	132.001	1.126	40.2	300	6.74	45.3
1.008	H8105	H8103	34.671	0.600	132.001	131.491	0.510	68.0	300	7.04	44.3
1.009	H8103	H8104	16.239	0.600	131.416	131.075	0.341	47.6	375	7.14	44.0
1.010	H8104	H8207	80.542	0.600	131.075	130.184	0.891	90.4	375	7.84	41.9
1.011	H8207	H8206	29.565	0.600	130.184	129.760	0.424	69.7	375	8.07	41.3
1.012	H8206	H8205	21.263	0.600	129.760	129.450	0.310	68.6	375	8.23	40.8
1.013	H8205	H8204	17.370	0.600	129.450	129.150	0.300	57.9	375	8.35	40.5
1.014	H8204	S8201	15.419	0.600	129.150	128.810	0.340	45.4	375	8.45	40.3
2.000	S7202	S8208	26.007	0.600	130.000	129.430	0.570	45.6	450	5.14	50.0
2.001	S8208	S8201	13.220	0.600	129.430	128.810	0.620	21.3	450	5.19	50.0
1.015	S8201	S8203	19.375	0.600	128.810	128.020	0.790	24.5	450	8.53	40.1
1.016	S8203	S7324	17.050	0.600	128.020	127.800	0.220	77.5	450	8.65	39.8

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	1.385	55.1	3.6	1.200	1.200	0.020	0.0	39	0.791
1.001	2.383	94.7	10.3	1.200	1.200	0.057	0.0	50	1.571
1.002	3.160	125.7	21.6	1.200	1.200	0.122	0.0	63	2.379
1.003	3.398	135.1	26.5	1.200	1.200	0.151	0.0	67	2.654
1.004	3.399	135.1	31.2	1.200	1.200	0.179	0.0	73	2.780
1.005	3.282	130.5	36.6	1.200	1.200	0.214	0.0	81	2.828
1.006	2.773	110.3	45.2	1.200	1.200	0.270	0.0	101	2.644
1.007	2.486	175.7	54.2	1.200	1.200	0.331	0.0	114	2.198
1.008	1.909	135.0	58.7	1.200	1.200	0.367	0.0	139	1.847
1.009	2.631	290.6	58.3	1.200	1.200	0.367	0.0	113	2.072
1.010	1.906	210.5	71.6	1.200	1.200	0.473	0.0	151	1.731
1.011	2.172	239.9	81.7	1.200	2.308	0.548	0.0	151	1.972
1.012	2.190	241.9	88.7	2.308	3.125	0.601	0.0	157	2.029
1.013	2.385	263.4	93.5	3.125	3.755	0.638	0.0	154	2.190
1.014	2.696	297.8	92.9	3.755	2.715	0.638	0.0	143	2.392
2.000	3.016	479.6	0.0	2.470	2.550	0.000	0.0	0	0.000
2.001	4.417	702.5	0.0	2.550	2.640	0.000	0.0	0	0.000
1.015	4.118	654.9	104.0	2.640	2.150	0.718	0.0	120	3.042
1.016	2.311	735.0	103.2	2.150	0.200	0.718	0.0	113	1.650

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	21.922	89.1	225	Circular	146.412	144.987	1.200	146.166	144.741	1.200
1.001	23.469	30.4	225	Circular	146.166	144.741	1.200	145.393	143.968	1.200
1.002	55.068	17.3	225	Circular	145.393	143.968	1.200	142.211	140.786	1.200
1.003	13.736	15.0	225	Circular	142.211	140.786	1.200	141.294	139.869	1.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	H6808	1350	Manhole	Adoptable	H7801	1350	Manhole	Adoptable
1.001	H7801	1350	Manhole	Adoptable	H7907	1350	Manhole	Adoptable
1.002	H7907	1350	Manhole	Adoptable	H7908	1350	Manhole	Adoptable
1.003	H7908	1350	Manhole	Adoptable	H7905	1350	Manhole	Adoptable

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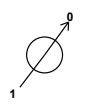
Pipeline Schedule

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)
1.004	22.231	15.0	225	Circular	141.294	139.869	1.200	139.809	138.384	1.200
1.005	48.817	16.1	225	Circular	139.809	138.384	1.200	136.768	135.343	1.200
1.006	48.060	22.4	225	Circular	136.768	135.343	1.200	134.627	133.202	1.200
1.007	45.284	40.2	300	Circular	134.627	133.127	1.200	133.501	132.001	1.200
1.008	34.671	68.0	300	Circular	133.501	132.001	1.200	132.991	131.491	1.200
1.009	16.239	47.6	375	Circular	132.991	131.416	1.200	132.650	131.075	1.200
1.010	80.542	90.4	375	Circular	132.650	131.075	1.200	131.759	130.184	1.200
1.011	29.565	69.7	375	Circular	131.759	130.184	1.200	132.443	129.760	2.308
1.012	21.263	68.6	375	Circular	132.443	129.760	2.308	132.950	129.450	3.125
1.013	17.370	57.9	375	Circular	132.950	129.450	3.125	133.280	129.150	3.755
1.014	15.419	45.4	375	Circular	133.280	129.150	3.755	131.900	128.810	2.715
2.000	26.007	45.6	450	Circular	132.920	130.000	2.470	132.430	129.430	2.550
2.001	13.220	21.3	450	Circular	132.430	129.430	2.550	131.900	128.810	2.640
1.015	19.375	24.5	450	Circular	131.900	128.810	2.640	130.620	128.020	2.150
1.016	17.050	77.5	450	Twin	130.620	128.020	2.150	128.450	127.800	0.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.004	H7905	1350	Manhole	Adoptable	H7906	1350	Manhole	Adoptable
1.005	H7906	1350	Manhole	Adoptable	H8001	1350	Manhole	Adoptable
1.006	H8001	1350	Manhole	Adoptable	H8002	1350	Manhole	Adoptable
1.007	H8002	1350	Manhole	Adoptable	H8105	1350	Manhole	Adoptable
1.008	H8105	1350	Manhole	Adoptable	H8103	1350	Manhole	Adoptable
1.009	H8103	1350	Manhole	Adoptable	H8104	1350	Manhole	Adoptable
1.010	H8104	1350	Manhole	Adoptable	H8207	1350	Manhole	Adoptable
1.011	H8207	1350	Manhole	Adoptable	H8206	1350	Manhole	Adoptable
1.012	H8206	1350	Manhole	Adoptable	H8205	1350	Manhole	Adoptable
1.013	H8205	1350	Manhole	Adoptable	H8204	1350	Manhole	Adoptable
1.014	H8204	1350	Manhole	Adoptable	S8201	1350	Manhole	Adoptable
2.000	S7202	1350	Manhole	Adoptable	S8208	1350	Manhole	Adoptable
2.001	S8208	1350	Manhole	Adoptable	S8201	1350	Manhole	Adoptable
1.015	S8201	1350	Manhole	Adoptable	S8203	1350	Manhole	Adoptable
1.016	S8203	1350	Manhole	Adoptable	S7324	1350	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H6808	401697.439	161876.655	146.412	1.425	1350				
						0	1.000	144.987	225
H7801	401713.855	161891.185	146.166	1.425	1350	1	1.000	144.741	225
						0	1.001	144.741	225
H7907	401731.373	161906.803	145.393	1.425	1350	1	1.001	143.968	225
						0	1.002	143.968	225
H7908	401769.280	161946.748	142.211	1.425	1350	1	1.002	140.786	225
						0	1.003	140.786	225
H7905	401777.615	161957.666	141.294	1.425	1350	1	1.003	139.869	225
									
						0	1.004	139.869	225

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H7906	401790.716	161975.627	139.809	1.425	1350	1	1.004	138.384	225
						0	1.005	138.384	225
H8001	401815.128	162017.903	136.768	1.425	1350	1	1.005	135.343	225
						0	1.006	135.343	225
H8002	401834.219	162062.008	134.627	1.500	1350	1	1.006	133.202	225
						0	1.007	133.127	300
H8105	401846.306	162105.649	133.501	1.500	1350	1	1.007	132.001	300
						0	1.008	132.001	300
H8103	401849.746	162140.149	132.991	1.575	1350	1	1.008	131.491	300
						0	1.009	131.416	375
H8104	401849.680	162156.388	132.650	1.575	1350	1	1.009	131.075	375
						0	1.010	131.075	375
H8207	401849.600	162236.930	131.759	1.575	1350	1	1.010	130.184	375
						0	1.011	130.184	375
H8206	401849.685	162266.494	132.443	2.683	1350	1	1.011	129.760	375
						0	1.012	129.760	375
H8205	401849.082	162287.748	132.950	3.500	1350	1	1.012	129.450	375
						0	1.013	129.450	375
H8204	401831.765	162289.104	133.280	4.130	1350	1	1.013	129.150	375
						0	1.014	129.150	375
S7202	401786.819	162263.249	132.920	2.920	1350	0	2.000	130.000	450
S8208	401810.955	162272.932	132.430	3.000	1350	1	2.000	129.430	450
						0	2.001	129.430	450
S8201	401816.990	162284.694	131.900	3.090	1350	1	2.001	128.810	450
						2	1.014	128.810	375
						0	1.015	128.810	450
S8203	401799.417	162292.854	130.620	2.600	1350	1	1.015	128.020	450
						0	1.016	128.020	450

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S7324	401792.231	162308.316	128.450	0.650	1350	1	1.016	127.800	450

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	1440	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

60	120	180	240	360	480	600	720	960	1440	2160

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	45	0	0
30	40	0	0				

Node S7202 Time-Area Diagram

Overrides Design Area	x	Depression Storage Area (m²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		

Applies to All storms

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-5	0.400	5-10	0.400	10-15	0.400	15-20	0.400

Node H6808 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.515
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7801 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	1.157
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7907 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.417
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

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Node H7908 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.206
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7905 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.265
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7906 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.417
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H8001 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.620
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H8002 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.415
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node S33 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	0.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	397.5	0.0	0.400	489.2	0.0	0.800	590.5	0.0	1.200	700.7	0.0
0.100	419.3	0.0	0.500	513.7	0.0	0.900	617.2	0.0	1.300	729.7	0.0
0.200	442.0	0.0	0.600	538.7	0.0	1.000	644.4	0.0	1.400	759.2	0.0
0.300	465.3	0.0	0.700	564.3	0.0	1.100	672.3	0.0	1.500	789.3	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 60 minute summer	43.138	11.400	2 year 240 minute summer	20.434	5.400
2 year 60 minute winter	28.660	11.400	2 year 240 minute winter	13.576	5.400
2 year 120 minute summer	30.650	8.100	2 year 360 minute summer	16.127	4.150
2 year 120 minute winter	20.363	8.100	2 year 360 minute winter	10.483	4.150
2 year 180 minute summer	25.002	6.434	2 year 480 minute summer	12.844	3.394
2 year 180 minute winter	16.252	6.434	2 year 480 minute winter	8.533	3.394

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Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 600 minute summer	10.561	2.889
2 year 600 minute winter	7.216	2.889
2 year 720 minute summer	9.421	2.525
2 year 720 minute winter	6.332	2.525
2 year 960 minute summer	7.728	2.035
2 year 960 minute winter	5.119	2.035
2 year 1440 minute summer	5.581	1.496
2 year 1440 minute winter	3.751	1.496
2 year 2160 minute summer	3.993	1.104
2 year 2160 minute winter	2.752	1.104
30 year +40% CC 60 minute summer	165.585	43.759
30 year +40% CC 60 minute winter	110.011	43.759
30 year +40% CC 120 minute summer	101.267	26.762
30 year +40% CC 120 minute winter	67.279	26.762
30 year +40% CC 180 minute summer	77.485	19.939
30 year +40% CC 180 minute winter	50.367	19.939
30 year +40% CC 240 minute summer	61.051	16.134
30 year +40% CC 240 minute winter	40.561	16.134
30 year +40% CC 360 minute summer	46.303	11.915
30 year +40% CC 360 minute winter	30.098	11.915
30 year +40% CC 480 minute summer	36.156	9.555
30 year +40% CC 480 minute winter	24.021	9.555
30 year +40% CC 600 minute summer	29.355	8.029
30 year +40% CC 600 minute winter	20.057	8.029
30 year +40% CC 720 minute summer	25.949	6.954
30 year +40% CC 720 minute winter	17.439	6.954
30 year +40% CC 960 minute summer	21.003	5.531
30 year +40% CC 960 minute winter	13.913	5.531
30 year +40% CC 1440 minute summer	14.834	3.976
30 year +40% CC 1440 minute winter	9.969	3.976
30 year +40% CC 2160 minute summer	10.318	2.851
30 year +40% CC 2160 minute winter	7.109	2.851
100 year +45% CC 60 minute summer	222.215	58.725
100 year +45% CC 60 minute winter	147.635	58.725
100 year +45% CC 120 minute summer	133.055	35.162
100 year +45% CC 120 minute winter	88.399	35.163
100 year +45% CC 180 minute summer	101.277	26.062
100 year +45% CC 180 minute winter	65.832	26.062
100 year +45% CC 240 minute summer	79.696	21.061
100 year +45% CC 240 minute winter	52.948	21.061
100 year +45% CC 360 minute summer	60.479	15.563
100 year +45% CC 360 minute winter	39.313	15.563
100 year +45% CC 480 minute summer	47.440	12.537
100 year +45% CC 480 minute winter	31.518	12.537
100 year +45% CC 600 minute summer	38.680	10.580
100 year +45% CC 600 minute winter	26.428	10.580
100 year +45% CC 720 minute summer	34.310	9.195
100 year +45% CC 720 minute winter	23.058	9.195
100 year +45% CC 960 minute summer	27.878	7.341
100 year +45% CC 960 minute winter	18.467	7.341
100 year +45% CC 1440 minute summer	19.792	5.305
100 year +45% CC 1440 minute winter	13.302	5.305
100 year +45% CC 2160 minute summer	13.674	3.779
100 year +45% CC 2160 minute winter	9.422	3.779

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Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.018	0.031	2.3	0.0447	0.0000	OK
60 minute summer	H7801	33	144.781	0.040	6.4	0.0565	0.0000	OK
60 minute summer	H7907	33	144.018	0.050	13.5	0.0709	0.0000	OK
60 minute summer	H7908	33	140.840	0.054	16.5	0.0777	0.0000	OK
60 minute summer	H7905	33	139.927	0.058	19.5	0.0829	0.0000	OK
60 minute summer	H7906	33	138.448	0.064	23.3	0.0916	0.0000	OK
60 minute summer	H8001	34	135.423	0.080	29.3	0.1149	0.0000	OK
60 minute summer	H8002	34	133.218	0.091	35.6	0.1300	0.0000	OK
60 minute summer	H8105	34	132.116	0.115	39.3	0.1642	0.0000	OK
60 minute summer	H8103	34	131.512	0.095	39.4	0.1367	0.0000	OK
60 minute summer	H8104	34	131.200	0.125	50.2	0.1786	0.0000	OK
60 minute summer	H8207	34	130.313	0.129	57.9	0.1846	0.0000	OK
60 minute summer	H8206	34	129.898	0.138	62.9	0.1978	0.0000	OK
60 minute summer	H8205	34	129.589	0.139	66.5	0.1987	0.0000	OK
60 minute summer	H8204	35	129.277	0.127	66.3	0.1823	0.0000	OK
60 minute summer	S7202	40	130.155	0.155	105.3	0.2219	0.0000	OK
60 minute summer	S8208	41	129.555	0.125	105.3	0.1783	0.0000	OK
60 minute summer	S8201	35	128.982	0.172	170.1	0.2456	0.0000	OK
60 minute summer	S8203	35	128.181	0.161	169.9	0.2298	0.0000	OK
60 minute summer	S7324	36	127.945	0.145	170.0	0.0000	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)
60 minute summer	H6808	1.000	H7801	2.3	0.578	0.042	0.0875	
60 minute summer	H7801	1.001	H7907	6.4	1.152	0.067	0.1305	
60 minute summer	H7907	1.002	H7908	13.4	1.945	0.107	0.3803	
60 minute summer	H7908	1.003	H7905	16.5	2.135	0.122	0.1059	
60 minute summer	H7905	1.004	H7906	19.4	2.240	0.144	0.1928	
60 minute summer	H7906	1.005	H8001	23.2	2.122	0.178	0.5357	
60 minute summer	H8001	1.006	H8002	29.2	2.330	0.265	0.6017	
60 minute summer	H8002	1.007	H8105	35.6	1.676	0.203	0.9676	
60 minute summer	H8105	1.008	H8103	39.4	1.637	0.292	0.8345	
60 minute summer	H8103	1.009	H8104	39.4	1.462	0.136	0.4392	
60 minute summer	H8104	1.010	H8207	50.2	1.531	0.238	2.6399	
60 minute summer	H8207	1.011	H8206	57.5	1.639	0.240	1.0403	
60 minute summer	H8206	1.012	H8205	62.7	1.700	0.259	0.7859	
60 minute summer	H8205	1.013	H8204	66.3	1.897	0.252	0.6078	
60 minute summer	H8204	1.014	S8201	66.5	1.629	0.223	0.6330	
60 minute summer	S7202	2.000	S8208	105.3	2.517	0.219	1.0919	
60 minute summer	S8208	2.001	S8201	105.2	2.572	0.150	0.5869	
60 minute summer	S8201	1.015	S8203	169.9	3.202	0.259	1.0292	
60 minute summer	S8203	1.016	S7324	170.0	1.795	0.231	1.6155	296.4

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Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.047	0.060	8.6	0.0854	0.0000	OK
60 minute summer	H7801	33	144.819	0.078	24.5	0.1111	0.0000	OK
60 minute summer	H7907	33	144.068	0.100	51.5	0.1427	0.0000	OK
60 minute summer	H7908	33	140.902	0.116	63.5	0.1665	0.0000	OK
60 minute summer	H7905	33	139.994	0.125	75.2	0.1789	0.0000	OK
60 minute summer	H7906	33	138.520	0.136	89.8	0.1948	0.0000	OK
60 minute summer	H8001	33	135.539	0.196	113.1	0.2799	0.0000	OK
60 minute summer	H8002	34	133.347	0.220	137.8	0.3141	0.0000	OK
60 minute summer	H8105	34	132.525	0.523	150.8	0.7491	0.0000	SURCHARGED
60 minute summer	H8103	36	131.672	0.256	150.6	0.3665	0.0000	OK
60 minute summer	H8104	36	131.587	0.512	191.7	0.7326	0.0000	SURCHARGED
60 minute summer	H8207	36	130.909	0.725	213.1	1.0368	0.0000	SURCHARGED
60 minute summer	H8206	36	130.536	0.776	219.1	1.1109	0.0000	SURCHARGED
60 minute summer	H8205	36	130.195	0.745	228.8	1.0655	0.0000	SURCHARGED
60 minute summer	H8204	36	129.864	0.714	225.4	1.0223	0.0000	SURCHARGED
60 minute summer	S7202	39	130.491	0.491	404.1	0.7032	0.0000	SURCHARGED
60 minute summer	S8208	37	129.931	0.501	406.8	0.7172	0.0000	SURCHARGED
60 minute summer	S8201	37	129.578	0.767	629.3	1.0983	0.0000	SURCHARGED
60 minute summer	S8203	37	128.404	0.384	629.7	0.5493	0.0000	OK
60 minute summer	S7324	37	128.113	0.313	629.8	0.0000	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)
60 minute summer	H6808	1.000	H7801	8.6	0.838	0.156	0.2251	
60 minute summer	H7801	1.001	H7907	24.5	1.685	0.258	0.3414	
60 minute summer	H7907	1.002	H7908	51.4	2.731	0.409	1.0373	
60 minute summer	H7908	1.003	H7905	63.5	2.929	0.470	0.2978	
60 minute summer	H7905	1.004	H7906	75.2	3.147	0.556	0.5309	
60 minute summer	H7906	1.005	H8001	89.7	2.858	0.687	1.5078	
60 minute summer	H8001	1.006	H8002	112.4	3.133	1.019	1.8365	
60 minute summer	H8002	1.007	H8105	136.6	2.175	0.778	2.8453	
60 minute summer	H8105	1.008	H8103	150.6	2.138	1.116	2.4096	
60 minute summer	H8103	1.009	H8104	150.1	1.869	0.517	1.5467	
60 minute summer	H8104	1.010	H8207	182.1	1.954	0.865	8.8835	
60 minute summer	H8207	1.011	H8206	197.2	1.976	0.822	3.2609	
60 minute summer	H8206	1.012	H8205	213.6	2.051	0.883	2.3452	
60 minute summer	H8205	1.013	H8204	225.4	2.207	0.856	1.9159	
60 minute summer	H8204	1.014	S8201	225.2	2.042	0.756	1.7007	
60 minute summer	S7202	2.000	S8208	406.8	3.144	0.848	4.1206	
60 minute summer	S8208	2.001	S8201	412.8	3.245	0.588	2.0946	
60 minute summer	S8201	1.015	S8203	629.7	3.999	0.961	2.9303	
60 minute summer	S8203	1.016	S7324	629.8	2.393	0.857	4.4606	1183.1

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.057	0.070	11.5	0.0996	0.0000	OK
60 minute summer	H7801	33	144.832	0.091	32.9	0.1302	0.0000	OK
60 minute summer	H7907	33	144.086	0.118	69.1	0.1694	0.0000	OK
60 minute summer	H7908	33	140.929	0.143	85.4	0.2043	0.0000	OK
60 minute summer	H7905	34	140.058	0.189	101.7	0.2707	0.0000	OK
60 minute summer	H7906	35	139.303	0.919	118.3	1.3157	0.0000	SURCHARGED
60 minute summer	H8001	33	136.768	1.425	144.7	2.0392	6.3723	FLOOD
60 minute summer	H8002	34	134.371	1.244	154.7	1.7802	0.0000	FLOOD RISK
60 minute summer	H8105	34	133.501	1.500	160.1	2.1465	1.7220	FLOOD
60 minute summer	H8103	34	132.778	1.362	150.9	1.9484	0.0000	FLOOD RISK
60 minute summer	H8104	34	132.650	1.575	205.6	2.2538	0.1358	FLOOD
60 minute summer	H8207	34	131.759	1.575	237.3	2.2538	7.4406	FLOOD
60 minute summer	H8206	36	131.391	1.631	245.2	2.3334	0.0000	SURCHARGED
60 minute summer	H8205	37	131.041	1.591	257.3	2.2761	0.0000	SURCHARGED
60 minute summer	H8204	38	130.709	1.559	249.3	2.2307	0.0000	SURCHARGED
60 minute summer	S7202	39	132.115	2.115	542.2	3.0260	0.0000	SURCHARGED
60 minute summer	S8208	39	131.079	1.649	543.1	2.3593	0.0000	SURCHARGED
60 minute summer	S8201	39	130.407	1.597	782.4	2.2847	0.0000	SURCHARGED
60 minute summer	S8203	39	128.632	0.612	782.6	0.8752	0.0000	SURCHARGED
60 minute summer	S7324	39	128.217	0.417	782.7	0.0000	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)
60 minute summer	H6808	1.000	H7801	11.5	0.904	0.208	0.2791	
60 minute summer	H7801	1.001	H7907	32.8	1.817	0.347	0.4247	
60 minute summer	H7907	1.002	H7908	69.1	2.942	0.550	1.3140	
60 minute summer	H7908	1.003	H7905	86.0	3.089	0.637	0.4155	
60 minute summer	H7905	1.004	H7906	98.6	3.258	0.730	0.8383	
60 minute summer	H7906	1.005	H8001	113.4	2.895	0.869	1.9415	
60 minute summer	H8001	1.006	H8002	120.6	3.047	1.094	1.9114	
60 minute summer	H8002	1.007	H8105	141.2	2.180	0.804	3.1889	
60 minute summer	H8105	1.008	H8103	150.9	2.143	1.118	2.4415	
60 minute summer	H8103	1.009	H8104	150.7	1.803	0.519	1.7911	
60 minute summer	H8104	1.010	H8207	197.9	1.950	0.940	8.8835	
60 minute summer	H8207	1.011	H8206	215.8	1.968	0.899	3.2609	
60 minute summer	H8206	1.012	H8205	236.8	2.147	0.979	2.3452	
60 minute summer	H8205	1.013	H8204	249.3	2.260	0.946	1.9159	
60 minute summer	H8204	1.014	S8201	243.8	2.210	0.819	1.7007	
60 minute summer	S7202	2.000	S8208	543.1	3.428	1.132	4.1206	
60 minute summer	S8208	2.001	S8201	544.7	3.438	0.775	2.0946	
60 minute summer	S8201	1.015	S8203	782.6	4.940	1.195	3.0698	
60 minute summer	S8203	1.016	S7324	782.7	2.470	1.065	5.3156	1600.4

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EXISTING WINDSOR DRIVE DRAINAGE - ALL EVENTS

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Circular Link Type

Template	Freeform Carrier	Barrels	1	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)
100 | 150

Twin Link Type

Template	Freeform Carrier	Barrels	2	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)
150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
H6808	0.020	5.00	146.412	1350	401697.439	161876.655	1.425	144.987
H7801	0.037	5.00	146.166	1350	401713.855	161891.185	1.425	144.741
H7907	0.065	5.00	145.393	1350	401731.373	161906.803	1.425	143.968
H7908	0.029	5.00	142.211	1350	401769.280	161946.748	1.425	140.786
H7905	0.028	5.00	141.294	1350	401777.615	161957.666	1.425	139.869
H7906	0.035	5.00	139.809	1350	401790.716	161975.627	1.425	138.384
H8001	0.056	5.00	136.768	1350	401815.128	162017.903	1.425	135.343
H8002	0.061	5.00	134.627	1350	401834.219	162062.008	1.500	133.127
H8105	0.036	5.00	133.501	1350	401846.306	162105.649	1.500	132.001
H8103			132.991	1350	401849.746	162140.149	1.575	131.416
H8104	0.106	5.00	132.650	1350	401849.680	162156.388	1.575	131.075
H8207	0.075	5.00	131.759	1350	401849.600	162236.930	1.575	130.184
H8206	0.053	5.00	132.443	1350	401849.685	162266.494	2.683	129.760
H8205	0.037	5.00	132.950	1350	401849.082	162287.748	3.500	129.450
H8204			133.280	1350	401831.765	162289.104	4.130	129.150
S7202		5.00	132.920	1350	401786.819	162263.249	2.920	130.000
S8208			132.430	1350	401810.955	162272.932	3.000	129.430
S8201	0.080	5.00	131.900	1350	401816.990	162284.694	3.090	128.810
S8203			130.620	1350	401799.417	162292.854	2.600	128.020
S7324			128.450	1350	401792.231	162308.316	0.650	127.800

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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	H6808	H7801	21.922	0.600	144.987	144.741	0.246	89.1	225	5.26	50.0
1.001	H7801	H7907	23.469	0.600	144.741	143.968	0.773	30.4	225	5.43	50.0
1.002	H7907	H7908	55.068	0.600	143.968	140.786	3.182	17.3	225	5.72	48.9
1.003	H7908	H7905	13.736	0.600	140.786	139.869	0.917	15.0	225	5.79	48.6
1.004	H7905	H7906	22.231	0.600	139.869	138.384	1.485	15.0	225	5.89	48.2
1.005	H7906	H8001	48.817	0.600	138.384	135.343	3.041	16.1	225	6.14	47.4
1.006	H8001	H8002	48.060	0.600	135.343	133.202	2.141	22.4	225	6.43	46.4
1.007	H8002	H8105	45.284	0.600	133.127	132.001	1.126	40.2	300	6.74	45.3
1.008	H8105	H8103	34.671	0.600	132.001	131.491	0.510	68.0	300	7.04	44.3
1.009	H8103	H8104	16.239	0.600	131.416	131.075	0.341	47.6	375	7.14	44.0
1.010	H8104	H8207	80.542	0.600	131.075	130.184	0.891	90.4	375	7.84	41.9
1.011	H8207	H8206	29.565	0.600	130.184	129.760	0.424	69.7	375	8.07	41.3
1.012	H8206	H8205	21.263	0.600	129.760	129.450	0.310	68.6	375	8.23	40.8
1.013	H8205	H8204	17.370	0.600	129.450	129.150	0.300	57.9	375	8.35	40.5
1.014	H8204	S8201	15.419	0.600	129.150	128.810	0.340	45.4	375	8.45	40.3
2.000	S7202	S8208	26.007	0.600	130.000	129.430	0.570	45.6	450	5.14	50.0
2.001	S8208	S8201	13.220	0.600	129.430	128.810	0.620	21.3	450	5.19	50.0
1.015	S8201	S8203	19.375	0.600	128.810	128.020	0.790	24.5	450	8.53	40.1
1.016	S8203	S7324	17.050	0.600	128.020	127.800	0.220	77.5	450	8.65	39.8

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	1.385	55.1	3.6	1.200	1.200	0.020	0.0	39	0.791
1.001	2.383	94.7	10.3	1.200	1.200	0.057	0.0	50	1.571
1.002	3.160	125.7	21.6	1.200	1.200	0.122	0.0	63	2.379
1.003	3.398	135.1	26.5	1.200	1.200	0.151	0.0	67	2.654
1.004	3.399	135.1	31.2	1.200	1.200	0.179	0.0	73	2.780
1.005	3.282	130.5	36.6	1.200	1.200	0.214	0.0	81	2.828
1.006	2.773	110.3	45.2	1.200	1.200	0.270	0.0	101	2.644
1.007	2.486	175.7	54.2	1.200	1.200	0.331	0.0	114	2.198
1.008	1.909	135.0	58.7	1.200	1.200	0.367	0.0	139	1.847
1.009	2.631	290.6	58.3	1.200	1.200	0.367	0.0	113	2.072
1.010	1.906	210.5	71.6	1.200	1.200	0.473	0.0	151	1.731
1.011	2.172	239.9	81.7	1.200	2.308	0.548	0.0	151	1.972
1.012	2.190	241.9	88.7	2.308	3.125	0.601	0.0	157	2.029
1.013	2.385	263.4	93.5	3.125	3.755	0.638	0.0	154	2.190
1.014	2.696	297.8	92.9	3.755	2.715	0.638	0.0	143	2.392
2.000	3.016	479.6	0.0	2.470	2.550	0.000	0.0	0	0.000
2.001	4.417	702.5	0.0	2.550	2.640	0.000	0.0	0	0.000
1.015	4.118	654.9	104.0	2.640	2.150	0.718	0.0	120	3.042
1.016	2.311	735.0	103.2	2.150	0.200	0.718	0.0	113	1.650

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	21.922	89.1	225	Circular	146.412	144.987	1.200	146.166	144.741	1.200
1.001	23.469	30.4	225	Circular	146.166	144.741	1.200	145.393	143.968	1.200
1.002	55.068	17.3	225	Circular	145.393	143.968	1.200	142.211	140.786	1.200
1.003	13.736	15.0	225	Circular	142.211	140.786	1.200	141.294	139.869	1.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	H6808	1350	Manhole	Adoptable	H7801	1350	Manhole	Adoptable
1.001	H7801	1350	Manhole	Adoptable	H7907	1350	Manhole	Adoptable
1.002	H7907	1350	Manhole	Adoptable	H7908	1350	Manhole	Adoptable
1.003	H7908	1350	Manhole	Adoptable	H7905	1350	Manhole	Adoptable

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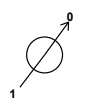
Pipeline Schedule

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)
1.004	22.231	15.0	225	Circular	141.294	139.869	1.200	139.809	138.384	1.200
1.005	48.817	16.1	225	Circular	139.809	138.384	1.200	136.768	135.343	1.200
1.006	48.060	22.4	225	Circular	136.768	135.343	1.200	134.627	133.202	1.200
1.007	45.284	40.2	300	Circular	134.627	133.127	1.200	133.501	132.001	1.200
1.008	34.671	68.0	300	Circular	133.501	132.001	1.200	132.991	131.491	1.200
1.009	16.239	47.6	375	Circular	132.991	131.416	1.200	132.650	131.075	1.200
1.010	80.542	90.4	375	Circular	132.650	131.075	1.200	131.759	130.184	1.200
1.011	29.565	69.7	375	Circular	131.759	130.184	1.200	132.443	129.760	2.308
1.012	21.263	68.6	375	Circular	132.443	129.760	2.308	132.950	129.450	3.125
1.013	17.370	57.9	375	Circular	132.950	129.450	3.125	133.280	129.150	3.755
1.014	15.419	45.4	375	Circular	133.280	129.150	3.755	131.900	128.810	2.715
2.000	26.007	45.6	450	Circular	132.920	130.000	2.470	132.430	129.430	2.550
2.001	13.220	21.3	450	Circular	132.430	129.430	2.550	131.900	128.810	2.640
1.015	19.375	24.5	450	Circular	131.900	128.810	2.640	130.620	128.020	2.150
1.016	17.050	77.5	450	Twin	130.620	128.020	2.150	128.450	127.800	0.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.004	H7905	1350	Manhole	Adoptable	H7906	1350	Manhole	Adoptable
1.005	H7906	1350	Manhole	Adoptable	H8001	1350	Manhole	Adoptable
1.006	H8001	1350	Manhole	Adoptable	H8002	1350	Manhole	Adoptable
1.007	H8002	1350	Manhole	Adoptable	H8105	1350	Manhole	Adoptable
1.008	H8105	1350	Manhole	Adoptable	H8103	1350	Manhole	Adoptable
1.009	H8103	1350	Manhole	Adoptable	H8104	1350	Manhole	Adoptable
1.010	H8104	1350	Manhole	Adoptable	H8207	1350	Manhole	Adoptable
1.011	H8207	1350	Manhole	Adoptable	H8206	1350	Manhole	Adoptable
1.012	H8206	1350	Manhole	Adoptable	H8205	1350	Manhole	Adoptable
1.013	H8205	1350	Manhole	Adoptable	H8204	1350	Manhole	Adoptable
1.014	H8204	1350	Manhole	Adoptable	S8201	1350	Manhole	Adoptable
2.000	S7202	1350	Manhole	Adoptable	S8208	1350	Manhole	Adoptable
2.001	S8208	1350	Manhole	Adoptable	S8201	1350	Manhole	Adoptable
1.015	S8201	1350	Manhole	Adoptable	S8203	1350	Manhole	Adoptable
1.016	S8203	1350	Manhole	Adoptable	S7324	1350	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H6808	401697.439	161876.655	146.412	1.425	1350				
						0	1.000	144.987	225
H7801	401713.855	161891.185	146.166	1.425	1350	1	1.000	144.741	225
						0	1.001	144.741	225
H7907	401731.373	161906.803	145.393	1.425	1350	1	1.001	143.968	225
						0	1.002	143.968	225
H7908	401769.280	161946.748	142.211	1.425	1350	1	1.002	140.786	225
						0	1.003	140.786	225
H7905	401777.615	161957.666	141.294	1.425	1350	1	1.003	139.869	225
									
						0	1.004	139.869	225

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H7906	401790.716	161975.627	139.809	1.425	1350	1	1.004	138.384	225
						0	1.005	138.384	225
H8001	401815.128	162017.903	136.768	1.425	1350	1	1.005	135.343	225
						0	1.006	135.343	225
H8002	401834.219	162062.008	134.627	1.500	1350	1	1.006	133.202	225
						0	1.007	133.127	300
H8105	401846.306	162105.649	133.501	1.500	1350	1	1.007	132.001	300
						0	1.008	132.001	300
H8103	401849.746	162140.149	132.991	1.575	1350	1	1.008	131.491	300
						0	1.009	131.416	375
H8104	401849.680	162156.388	132.650	1.575	1350	1	1.009	131.075	375
						0	1.010	131.075	375
H8207	401849.600	162236.930	131.759	1.575	1350	1	1.010	130.184	375
						0	1.011	130.184	375
H8206	401849.685	162266.494	132.443	2.683	1350	1	1.011	129.760	375
						0	1.012	129.760	375
H8205	401849.082	162287.748	132.950	3.500	1350	1	1.012	129.450	375
						0	1.013	129.450	375
H8204	401831.765	162289.104	133.280	4.130	1350	1	1.013	129.150	375
						0	1.014	129.150	375
S7202	401786.819	162263.249	132.920	2.920	1350	0	2.000	130.000	450
S8208	401810.955	162272.932	132.430	3.000	1350	1	2.000	129.430	450
						0	2.001	129.430	450
S8201	401816.990	162284.694	131.900	3.090	1350	1	2.001	128.810	450
						2	1.014	128.810	375
						0	1.015	128.810	450
S8203	401799.417	162292.854	130.620	2.600	1350	1	1.015	128.020	450
						0	1.016	128.020	450

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S7324	401792.231	162308.316	128.450	0.650	1350	1	1.016	127.800	450

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	1440	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

60	120	180	240	360	480	600	720	960	1440	2160

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	45	0	0
30	40	0	0				

Node S7202 Time-Area Diagram

Overrides Design Area	x	Depression Storage Area (m²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		

Applies to All storms

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-5	0.400	5-10	0.400	10-15	0.400	15-20	0.400

Node H6808 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.515
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7801 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	1.157
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7907 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.417
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

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Node H7908 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.206
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7905 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.265
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7906 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.417
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H8001 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.620
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H8002 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.415
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node S33 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	0.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	397.5	0.0	0.400	489.2	0.0	0.800	590.5	0.0	1.200	700.7	0.0
0.100	419.3	0.0	0.500	513.7	0.0	0.900	617.2	0.0	1.300	729.7	0.0
0.200	442.0	0.0	0.600	538.7	0.0	1.000	644.4	0.0	1.400	759.2	0.0
0.300	465.3	0.0	0.700	564.3	0.0	1.100	672.3	0.0	1.500	789.3	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 60 minute summer	43.138	11.400	2 year 240 minute summer	20.434	5.400
2 year 60 minute winter	28.660	11.400	2 year 240 minute winter	13.576	5.400
2 year 120 minute summer	30.650	8.100	2 year 360 minute summer	16.127	4.150
2 year 120 minute winter	20.363	8.100	2 year 360 minute winter	10.483	4.150
2 year 180 minute summer	25.002	6.434	2 year 480 minute summer	12.844	3.394
2 year 180 minute winter	16.252	6.434	2 year 480 minute winter	8.533	3.394

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Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 600 minute summer	10.561	2.889
2 year 600 minute winter	7.216	2.889
2 year 720 minute summer	9.421	2.525
2 year 720 minute winter	6.332	2.525
2 year 960 minute summer	7.728	2.035
2 year 960 minute winter	5.119	2.035
2 year 1440 minute summer	5.581	1.496
2 year 1440 minute winter	3.751	1.496
2 year 2160 minute summer	3.993	1.104
2 year 2160 minute winter	2.752	1.104
30 year +40% CC 60 minute summer	165.585	43.759
30 year +40% CC 60 minute winter	110.011	43.759
30 year +40% CC 120 minute summer	101.267	26.762
30 year +40% CC 120 minute winter	67.279	26.762
30 year +40% CC 180 minute summer	77.485	19.939
30 year +40% CC 180 minute winter	50.367	19.939
30 year +40% CC 240 minute summer	61.051	16.134
30 year +40% CC 240 minute winter	40.561	16.134
30 year +40% CC 360 minute summer	46.303	11.915
30 year +40% CC 360 minute winter	30.098	11.915
30 year +40% CC 480 minute summer	36.156	9.555
30 year +40% CC 480 minute winter	24.021	9.555
30 year +40% CC 600 minute summer	29.355	8.029
30 year +40% CC 600 minute winter	20.057	8.029
30 year +40% CC 720 minute summer	25.949	6.954
30 year +40% CC 720 minute winter	17.439	6.954
30 year +40% CC 960 minute summer	21.003	5.531
30 year +40% CC 960 minute winter	13.913	5.531
30 year +40% CC 1440 minute summer	14.834	3.976
30 year +40% CC 1440 minute winter	9.969	3.976
30 year +40% CC 2160 minute summer	10.318	2.851
30 year +40% CC 2160 minute winter	7.109	2.851
100 year +45% CC 60 minute summer	222.215	58.725
100 year +45% CC 60 minute winter	147.635	58.725
100 year +45% CC 120 minute summer	133.055	35.162
100 year +45% CC 120 minute winter	88.399	35.163
100 year +45% CC 180 minute summer	101.277	26.062
100 year +45% CC 180 minute winter	65.832	26.062
100 year +45% CC 240 minute summer	79.696	21.061
100 year +45% CC 240 minute winter	52.948	21.061
100 year +45% CC 360 minute summer	60.479	15.563
100 year +45% CC 360 minute winter	39.313	15.563
100 year +45% CC 480 minute summer	47.440	12.537
100 year +45% CC 480 minute winter	31.518	12.537
100 year +45% CC 600 minute summer	38.680	10.580
100 year +45% CC 600 minute winter	26.428	10.580
100 year +45% CC 720 minute summer	34.310	9.195
100 year +45% CC 720 minute winter	23.058	9.195
100 year +45% CC 960 minute summer	27.878	7.341
100 year +45% CC 960 minute winter	18.467	7.341
100 year +45% CC 1440 minute summer	19.792	5.305
100 year +45% CC 1440 minute winter	13.302	5.305
100 year +45% CC 2160 minute summer	13.674	3.779
100 year +45% CC 2160 minute winter	9.422	3.779

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Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.018	0.031	2.3	0.0447	0.0000	OK
60 minute summer	H7801	33	144.781	0.040	6.4	0.0565	0.0000	OK
60 minute summer	H7907	33	144.018	0.050	13.5	0.0709	0.0000	OK
60 minute summer	H7908	33	140.840	0.054	16.5	0.0777	0.0000	OK
60 minute summer	H7905	33	139.927	0.058	19.5	0.0829	0.0000	OK
60 minute summer	H7906	33	138.448	0.064	23.3	0.0916	0.0000	OK
60 minute summer	H8001	34	135.423	0.080	29.3	0.1149	0.0000	OK
60 minute summer	H8002	34	133.218	0.091	35.6	0.1300	0.0000	OK
60 minute summer	H8105	34	132.116	0.115	39.3	0.1642	0.0000	OK
60 minute summer	H8103	34	131.512	0.095	39.4	0.1367	0.0000	OK
60 minute summer	H8104	34	131.200	0.125	50.2	0.1786	0.0000	OK
60 minute summer	H8207	34	130.313	0.129	57.9	0.1846	0.0000	OK
60 minute summer	H8206	34	129.898	0.138	62.9	0.1978	0.0000	OK
60 minute summer	H8205	34	129.589	0.139	66.5	0.1987	0.0000	OK
60 minute summer	H8204	35	129.277	0.127	66.3	0.1823	0.0000	OK
60 minute summer	S7202	40	130.155	0.155	105.3	0.2219	0.0000	OK
60 minute summer	S8208	41	129.555	0.125	105.3	0.1783	0.0000	OK
60 minute summer	S8201	35	128.982	0.172	170.1	0.2456	0.0000	OK
60 minute summer	S8203	35	128.181	0.161	169.9	0.2298	0.0000	OK
60 minute summer	S7324	36	127.945	0.145	170.0	0.0000	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)
60 minute summer	H6808	1.000	H7801	2.3	0.578	0.042	0.0875	
60 minute summer	H7801	1.001	H7907	6.4	1.152	0.067	0.1305	
60 minute summer	H7907	1.002	H7908	13.4	1.945	0.107	0.3803	
60 minute summer	H7908	1.003	H7905	16.5	2.135	0.122	0.1059	
60 minute summer	H7905	1.004	H7906	19.4	2.240	0.144	0.1928	
60 minute summer	H7906	1.005	H8001	23.2	2.122	0.178	0.5357	
60 minute summer	H8001	1.006	H8002	29.2	2.330	0.265	0.6017	
60 minute summer	H8002	1.007	H8105	35.6	1.676	0.203	0.9676	
60 minute summer	H8105	1.008	H8103	39.4	1.637	0.292	0.8345	
60 minute summer	H8103	1.009	H8104	39.4	1.462	0.136	0.4392	
60 minute summer	H8104	1.010	H8207	50.2	1.531	0.238	2.6399	
60 minute summer	H8207	1.011	H8206	57.5	1.639	0.240	1.0403	
60 minute summer	H8206	1.012	H8205	62.7	1.700	0.259	0.7859	
60 minute summer	H8205	1.013	H8204	66.3	1.897	0.252	0.6078	
60 minute summer	H8204	1.014	S8201	66.5	1.629	0.223	0.6330	
60 minute summer	S7202	2.000	S8208	105.3	2.517	0.219	1.0919	
60 minute summer	S8208	2.001	S8201	105.2	2.572	0.150	0.5869	
60 minute summer	S8201	1.015	S8203	169.9	3.202	0.259	1.0292	
60 minute summer	S8203	1.016	S7324	170.0	1.795	0.231	1.6155	296.4

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Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.96%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.047	0.060	8.6	0.0854	0.0000	OK
60 minute summer	H7801	33	144.819	0.078	24.5	0.1111	0.0000	OK
60 minute summer	H7907	33	144.068	0.100	51.5	0.1427	0.0000	OK
60 minute summer	H7908	33	140.902	0.116	63.5	0.1665	0.0000	OK
60 minute summer	H7905	33	139.994	0.125	75.2	0.1789	0.0000	OK
60 minute summer	H7906	33	138.520	0.136	89.8	0.1948	0.0000	OK
60 minute summer	H8001	33	135.539	0.196	113.1	0.2799	0.0000	OK
60 minute summer	H8002	34	133.347	0.220	137.8	0.3141	0.0000	OK
60 minute summer	H8105	34	132.525	0.523	150.8	0.7491	0.0000	SURCHARGED
60 minute summer	H8103	36	131.672	0.256	150.6	0.3665	0.0000	OK
60 minute summer	H8104	36	131.587	0.512	191.7	0.7326	0.0000	SURCHARGED
60 minute summer	H8207	36	130.909	0.725	213.1	1.0368	0.0000	SURCHARGED
60 minute summer	H8206	36	130.536	0.776	219.1	1.1109	0.0000	SURCHARGED
60 minute summer	H8205	36	130.195	0.745	228.8	1.0655	0.0000	SURCHARGED
60 minute summer	H8204	36	129.864	0.714	225.4	1.0223	0.0000	SURCHARGED
60 minute summer	S7202	39	130.491	0.491	404.1	0.7032	0.0000	SURCHARGED
60 minute summer	S8208	37	129.931	0.501	406.8	0.7172	0.0000	SURCHARGED
60 minute summer	S8201	37	129.578	0.767	629.3	1.0983	0.0000	SURCHARGED
60 minute summer	S8203	37	128.404	0.384	629.7	0.5493	0.0000	OK
60 minute summer	S7324	37	128.113	0.313	629.8	0.0000	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)
60 minute summer	H6808	1.000	H7801	8.6	0.838	0.156	0.2251	
60 minute summer	H7801	1.001	H7907	24.5	1.685	0.258	0.3414	
60 minute summer	H7907	1.002	H7908	51.4	2.731	0.409	1.0373	
60 minute summer	H7908	1.003	H7905	63.5	2.929	0.470	0.2978	
60 minute summer	H7905	1.004	H7906	75.2	3.147	0.556	0.5309	
60 minute summer	H7906	1.005	H8001	89.7	2.858	0.687	1.5078	
60 minute summer	H8001	1.006	H8002	112.4	3.133	1.019	1.8365	
60 minute summer	H8002	1.007	H8105	136.6	2.175	0.778	2.8453	
60 minute summer	H8105	1.008	H8103	150.6	2.138	1.116	2.4096	
60 minute summer	H8103	1.009	H8104	150.1	1.869	0.517	1.5467	
60 minute summer	H8104	1.010	H8207	182.1	1.954	0.865	8.8835	
60 minute summer	H8207	1.011	H8206	197.2	1.976	0.822	3.2609	
60 minute summer	H8206	1.012	H8205	213.6	2.051	0.883	2.3452	
60 minute summer	H8205	1.013	H8204	225.4	2.207	0.856	1.9159	
60 minute summer	H8204	1.014	S8201	225.2	2.042	0.756	1.7007	
60 minute summer	S7202	2.000	S8208	406.8	3.144	0.848	4.1206	
60 minute summer	S8208	2.001	S8201	412.8	3.245	0.588	2.0946	
60 minute summer	S8201	1.015	S8203	629.7	3.999	0.961	2.9303	
60 minute summer	S8203	1.016	S7324	629.8	2.393	0.857	4.4606	1183.1

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.057	0.070	11.5	0.0996	0.0000	OK
60 minute summer	H7801	33	144.832	0.091	32.9	0.1302	0.0000	OK
60 minute summer	H7907	33	144.086	0.118	69.1	0.1694	0.0000	OK
60 minute summer	H7908	33	140.929	0.143	85.4	0.2043	0.0000	OK
60 minute summer	H7905	34	140.058	0.189	101.7	0.2707	0.0000	OK
60 minute summer	H7906	35	139.303	0.919	118.3	1.3157	0.0000	SURCHARGED
60 minute summer	H8001	33	136.768	1.425	144.7	2.0392	6.3723	FLOOD
60 minute summer	H8002	34	134.371	1.244	154.7	1.7802	0.0000	FLOOD RISK
60 minute summer	H8105	34	133.501	1.500	160.1	2.1465	1.7220	FLOOD
60 minute summer	H8103	34	132.778	1.362	150.9	1.9484	0.0000	FLOOD RISK
60 minute summer	H8104	34	132.650	1.575	205.6	2.2538	0.1358	FLOOD
60 minute summer	H8207	34	131.759	1.575	237.3	2.2538	7.4406	FLOOD
60 minute summer	H8206	36	131.391	1.631	245.2	2.3334	0.0000	SURCHARGED
60 minute summer	H8205	37	131.041	1.591	257.3	2.2761	0.0000	SURCHARGED
60 minute summer	H8204	38	130.709	1.559	249.3	2.2307	0.0000	SURCHARGED
60 minute summer	S7202	39	132.115	2.115	542.2	3.0260	0.0000	SURCHARGED
60 minute summer	S8208	39	131.079	1.649	543.1	2.3593	0.0000	SURCHARGED
60 minute summer	S8201	39	130.407	1.597	782.4	2.2847	0.0000	SURCHARGED
60 minute summer	S8203	39	128.632	0.612	782.6	0.8752	0.0000	SURCHARGED
60 minute summer	S7324	39	128.217	0.417	782.7	0.0000	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)
60 minute summer	H6808	1.000	H7801	11.5	0.904	0.208	0.2791	
60 minute summer	H7801	1.001	H7907	32.8	1.817	0.347	0.4247	
60 minute summer	H7907	1.002	H7908	69.1	2.942	0.550	1.3140	
60 minute summer	H7908	1.003	H7905	86.0	3.089	0.637	0.4155	
60 minute summer	H7905	1.004	H7906	98.6	3.258	0.730	0.8383	
60 minute summer	H7906	1.005	H8001	113.4	2.895	0.869	1.9415	
60 minute summer	H8001	1.006	H8002	120.6	3.047	1.094	1.9114	
60 minute summer	H8002	1.007	H8105	141.2	2.180	0.804	3.1889	
60 minute summer	H8105	1.008	H8103	150.9	2.143	1.118	2.4415	
60 minute summer	H8103	1.009	H8104	150.7	1.803	0.519	1.7911	
60 minute summer	H8104	1.010	H8207	197.9	1.950	0.940	8.8835	
60 minute summer	H8207	1.011	H8206	215.8	1.968	0.899	3.2609	
60 minute summer	H8206	1.012	H8205	236.8	2.147	0.979	2.3452	
60 minute summer	H8205	1.013	H8204	249.3	2.260	0.946	1.9159	
60 minute summer	H8204	1.014	S8201	243.8	2.210	0.819	1.7007	
60 minute summer	S7202	2.000	S8208	543.1	3.428	1.132	4.1206	
60 minute summer	S8208	2.001	S8201	544.7	3.438	0.775	2.0946	
60 minute summer	S8201	1.015	S8203	782.6	4.940	1.195	3.0698	
60 minute summer	S8203	1.016	S7324	782.7	2.470	1.065	5.3156	1600.4

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Results for 2 year 60 minute summer. 1500 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
60 minute summer	H6808	33	145.018	0.031	2.3	0.0447	0.0000	OK
60 minute summer	H7801	33	144.781	0.040	6.4	0.0565	0.0000	OK
60 minute summer	H7907	33	144.018	0.050	13.5	0.0709	0.0000	OK
60 minute summer	H7908	33	140.840	0.054	16.5	0.0777	0.0000	OK
60 minute summer	H7905	33	139.927	0.058	19.5	0.0829	0.0000	OK
60 minute summer	H7906	33	138.448	0.064	23.3	0.0916	0.0000	OK
60 minute summer	H8001	34	135.423	0.080	29.3	0.1149	0.0000	OK
60 minute summer	H8002	34	133.218	0.091	35.6	0.1300	0.0000	OK
60 minute summer	H8105	34	132.116	0.115	39.3	0.1642	0.0000	OK
60 minute summer	H8103	34	131.512	0.095	39.4	0.1367	0.0000	OK
60 minute summer	H8104	34	131.200	0.125	50.2	0.1786	0.0000	OK
60 minute summer	H8207	34	130.313	0.129	57.9	0.1846	0.0000	OK
60 minute summer	H8206	34	129.898	0.138	62.9	0.1978	0.0000	OK
60 minute summer	H8205	34	129.589	0.139	66.5	0.1987	0.0000	OK
60 minute summer	H8204	35	129.277	0.127	66.3	0.1823	0.0000	OK
60 minute summer	S7202	40	130.155	0.155	105.3	0.2219	0.0000	OK
60 minute summer	S8208	41	129.555	0.125	105.3	0.1783	0.0000	OK
60 minute summer	S8201	35	128.982	0.172	170.1	0.2456	0.0000	OK
60 minute summer	S8203	35	128.181	0.161	169.9	0.2298	0.0000	OK
60 minute summer	S7324	36	127.945	0.145	170.0	0.0000	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	H6808	1.000	H7801	2.3	0.578	0.042	0.0875	
60 minute summer	H7801	1.001	H7907	6.4	1.152	0.067	0.1305	
60 minute summer	H7907	1.002	H7908	13.4	1.945	0.107	0.3803	
60 minute summer	H7908	1.003	H7905	16.5	2.135	0.122	0.1059	
60 minute summer	H7905	1.004	H7906	19.4	2.240	0.144	0.1928	
60 minute summer	H7906	1.005	H8001	23.2	2.122	0.178	0.5357	
60 minute summer	H8001	1.006	H8002	29.2	2.330	0.265	0.6017	
60 minute summer	H8002	1.007	H8105	35.6	1.676	0.203	0.9676	
60 minute summer	H8105	1.008	H8103	39.4	1.637	0.292	0.8345	
60 minute summer	H8103	1.009	H8104	39.4	1.462	0.136	0.4392	
60 minute summer	H8104	1.010	H8207	50.2	1.531	0.238	2.6399	
60 minute summer	H8207	1.011	H8206	57.5	1.639	0.240	1.0403	
60 minute summer	H8206	1.012	H8205	62.7	1.700	0.259	0.7859	
60 minute summer	H8205	1.013	H8204	66.3	1.897	0.252	0.6078	
60 minute summer	H8204	1.014	S8201	66.5	1.629	0.223	0.6330	
60 minute summer	S7202	2.000	S8208	105.3	2.517	0.219	1.0919	
60 minute summer	S8208	2.001	S8201	105.2	2.572	0.150	0.5869	
60 minute summer	S8201	1.015	S8203	169.9	3.202	0.259	1.0292	
60 minute summer	S8203	1.016	S7324	170.0	1.795	0.231	1.6155	296.4

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Results for 2 year 60 minute winter. 1500 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
60 minute winter	H6808	33	145.014	0.027	1.7	0.0387	0.0000	OK
60 minute winter	H7801	33	144.775	0.034	4.8	0.0490	0.0000	OK
60 minute winter	H7907	33	144.011	0.043	10.0	0.0610	0.0000	OK
60 minute winter	H7908	33	140.832	0.046	12.2	0.0664	0.0000	OK
60 minute winter	H7905	33	139.919	0.050	14.4	0.0709	0.0000	OK
60 minute winter	H7906	34	138.439	0.055	17.1	0.0786	0.0000	OK
60 minute winter	H8001	34	135.411	0.068	21.6	0.0979	0.0000	OK
60 minute winter	H8002	34	133.205	0.078	26.3	0.1114	0.0000	OK
60 minute winter	H8105	34	132.098	0.097	29.0	0.1387	0.0000	OK
60 minute winter	H8103	34	131.497	0.081	29.0	0.1154	0.0000	OK
60 minute winter	H8104	34	131.181	0.106	37.1	0.1520	0.0000	OK
60 minute winter	H8207	35	130.293	0.109	42.7	0.1563	0.0000	OK
60 minute winter	H8206	35	129.877	0.117	46.5	0.1672	0.0000	OK
60 minute winter	H8205	35	129.568	0.118	49.3	0.1684	0.0000	OK
60 minute winter	H8204	35	129.256	0.106	49.3	0.1523	0.0000	OK
60 minute winter	S7202	40	130.150	0.150	98.8	0.2144	0.0000	OK
60 minute winter	S8208	41	129.550	0.120	98.7	0.1713	0.0000	OK
60 minute winter	S8201	37	128.968	0.158	147.5	0.2261	0.0000	OK
60 minute winter	S8203	37	128.168	0.148	147.5	0.2121	0.0000	OK
60 minute winter	S7324	37	127.935	0.135	147.5	0.0000	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	H6808	1.000	H7801	1.7	0.526	0.031	0.0710	
60 minute winter	H7801	1.001	H7907	4.8	1.060	0.050	0.1057	
60 minute winter	H7907	1.002	H7908	9.9	1.788	0.079	0.3058	
60 minute winter	H7908	1.003	H7905	12.2	1.974	0.090	0.0848	
60 minute winter	H7905	1.004	H7906	14.3	2.061	0.106	0.1548	
60 minute winter	H7906	1.005	H8001	17.1	1.947	0.131	0.4310	
60 minute winter	H8001	1.006	H8002	21.6	2.146	0.196	0.4836	
60 minute winter	H8002	1.007	H8105	26.3	1.544	0.150	0.7736	
60 minute winter	H8105	1.008	H8103	29.0	1.509	0.215	0.6659	
60 minute winter	H8103	1.009	H8104	29.0	1.355	0.100	0.3489	
60 minute winter	H8104	1.010	H8207	36.9	1.416	0.176	2.1027	
60 minute winter	H8207	1.011	H8206	42.6	1.525	0.178	0.8261	
60 minute winter	H8206	1.012	H8205	46.6	1.584	0.192	0.6249	
60 minute winter	H8205	1.013	H8204	49.3	1.787	0.187	0.4795	
60 minute winter	H8204	1.014	S8201	49.3	1.448	0.166	0.5341	
60 minute winter	S7202	2.000	S8208	98.7	2.480	0.206	1.0381	
60 minute winter	S8208	2.001	S8201	98.7	2.465	0.140	0.5455	
60 minute winter	S8201	1.015	S8203	147.5	3.103	0.225	0.9209	
60 minute winter	S8203	1.016	S7324	147.5	1.732	0.201	1.4527	295.8

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Results for 2 year 120 minute summer. 1560 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 summer	H6808	64	145.015	0.028	1.8	0.0396	0.0000	OK
120 minute summer	H7801	64	144.777	0.036	5.2	0.0509	0.0000	OK
120 minute summer	H7907	64	144.012	0.044	10.5	0.0628	0.0000	OK
120 minute summer	H7908	64	140.834	0.048	13.0	0.0686	0.0000	OK
120 minute summer	H7905	64	139.920	0.051	15.4	0.0735	0.0000	OK
120 minute summer	H7906	64	138.441	0.057	18.3	0.0811	0.0000	OK
120 minute summer	H8001	64	135.414	0.071	23.1	0.1012	0.0000	OK
120 minute summer	H8002	64	133.207	0.080	28.1	0.1151	0.0000	OK
120 minute summer	H8105	64	132.101	0.100	31.0	0.1434	0.0000	OK
120 minute summer	H8103	64	131.499	0.083	30.8	0.1193	0.0000	OK
120 minute summer	H8104	64	131.185	0.109	39.4	0.1567	0.0000	OK
120 minute summer	H8207	64	130.297	0.112	45.2	0.1610	0.0000	OK
120 minute summer	H8206	64	129.880	0.120	49.1	0.1721	0.0000	OK
120 minute summer	H8205	64	129.571	0.121	51.9	0.1731	0.0000	OK
120 minute summer	H8204	66	129.260	0.110	51.9	0.1568	0.0000	OK
120 minute summer	S7202	70	130.154	0.154	103.7	0.2201	0.0000	OK
120 minute summer	S8208	70	129.553	0.123	103.6	0.1758	0.0000	OK
120 minute summer	S8201	66	128.973	0.163	156.4	0.2338	0.0000	OK
120 minute summer	S8203	68	128.173	0.153	156.3	0.2191	0.0000	OK
120 minute summer	S7324	68	127.939	0.139	156.4	0.0000	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	H6808	1.000	H7801	1.8	0.526	0.032	0.0744	
120 minute summer	H7801	1.001	H7907	5.1	1.108	0.054	0.1108	
120 minute summer	H7907	1.002	H7908	10.5	1.813	0.084	0.3196	
120 minute summer	H7908	1.003	H7905	13.0	2.005	0.096	0.0891	
120 minute summer	H7905	1.004	H7906	15.4	2.105	0.114	0.1626	
120 minute summer	H7906	1.005	H8001	18.3	1.980	0.140	0.4514	
120 minute summer	H8001	1.006	H8002	23.0	2.183	0.208	0.5062	
120 minute summer	H8002	1.007	H8105	28.1	1.573	0.160	0.8099	
120 minute summer	H8105	1.008	H8103	30.8	1.533	0.228	0.6964	
120 minute summer	H8103	1.009	H8104	30.8	1.377	0.106	0.3646	
120 minute summer	H8104	1.010	H8207	39.1	1.437	0.186	2.1938	
120 minute summer	H8207	1.011	H8206	44.8	1.546	0.187	0.8601	
120 minute summer	H8206	1.012	H8205	48.9	1.604	0.202	0.6498	
120 minute summer	H8205	1.013	H8204	51.9	1.808	0.197	0.4989	
120 minute summer	H8204	1.014	S8201	52.0	1.452	0.175	0.5614	
120 minute summer	S7202	2.000	S8208	103.6	2.509	0.216	1.0772	
120 minute summer	S8208	2.001	S8201	103.5	2.475	0.147	0.5709	
120 minute summer	S8201	1.015	S8203	156.3	3.144	0.239	0.9634	
120 minute summer	S8203	1.016	S7324	156.4	1.758	0.213	1.5174	424.0

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Results for 2 year 120 minute winter. 1560 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	H6808	66	145.011	0.024	1.3	0.0341	0.0000	OK
120 minute winter	H7801	64	144.772	0.031	3.9	0.0444	0.0000	OK
120 minute winter	H7907	64	144.006	0.038	7.7	0.0538	0.0000	OK
120 minute winter	H7908	66	140.827	0.041	9.3	0.0581	0.0000	OK
120 minute winter	H7905	64	139.912	0.043	11.0	0.0620	0.0000	OK
120 minute winter	H7906	64	138.432	0.048	13.2	0.0689	0.0000	OK
120 minute winter	H8001	66	135.403	0.060	16.5	0.0852	0.0000	OK
120 minute winter	H8002	66	133.195	0.068	20.0	0.0972	0.0000	OK
120 minute winter	H8105	66	132.085	0.084	22.0	0.1199	0.0000	OK
120 minute winter	H8103	66	131.486	0.070	22.1	0.0999	0.0000	OK
120 minute winter	H8104	66	131.167	0.092	27.9	0.1315	0.0000	OK
120 minute winter	H8207	66	130.278	0.094	32.0	0.1343	0.0000	OK
120 minute winter	H8206	66	129.860	0.100	34.9	0.1429	0.0000	OK
120 minute winter	H8205	66	129.551	0.101	36.9	0.1441	0.0000	OK
120 minute winter	H8204	66	129.240	0.090	36.9	0.1282	0.0000	OK
120 minute winter	S7202	70	130.137	0.137	83.4	0.1955	0.0000	OK
120 minute winter	S8208	70	129.539	0.109	83.4	0.1554	0.0000	OK
120 minute winter	S8201	68	128.953	0.143	123.4	0.2043	0.0000	OK
120 minute winter	S8203	68	128.154	0.134	123.4	0.1920	0.0000	OK
120 minute winter	S7324	68	127.923	0.123	123.3	0.0000	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	H6808	1.000	H7801	1.3	0.481	0.024	0.0605	
120 minute winter	H7801	1.001	H7907	3.9	1.105	0.041	0.0896	
120 minute winter	H7907	1.002	H7908	7.6	1.665	0.061	0.2533	
120 minute winter	H7908	1.003	H7905	9.3	1.837	0.069	0.0699	
120 minute winter	H7905	1.004	H7906	11.0	1.910	0.081	0.1282	
120 minute winter	H7906	1.005	H8001	13.2	1.816	0.101	0.3554	
120 minute winter	H8001	1.006	H8002	16.5	1.992	0.150	0.3988	
120 minute winter	H8002	1.007	H8105	20.0	1.436	0.114	0.6340	
120 minute winter	H8105	1.008	H8103	22.1	1.402	0.163	0.5456	
120 minute winter	H8103	1.009	H8104	22.1	1.267	0.076	0.2842	
120 minute winter	H8104	1.010	H8207	27.9	1.314	0.132	1.7085	
120 minute winter	H8207	1.011	H8206	32.0	1.420	0.133	0.6655	
120 minute winter	H8206	1.012	H8205	34.9	1.476	0.144	0.5024	
120 minute winter	H8205	1.013	H8204	36.9	1.681	0.140	0.3813	
120 minute winter	H8204	1.014	S8201	36.9	1.286	0.124	0.4506	
120 minute winter	S7202	2.000	S8208	83.4	2.388	0.174	0.9104	
120 minute winter	S8208	2.001	S8201	83.3	2.323	0.119	0.4785	
120 minute winter	S8201	1.015	S8203	123.4	2.983	0.188	0.8018	
120 minute winter	S8203	1.016	S7324	123.3	1.655	0.168	1.2714	426.0

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Results for 2 year 180 minute summer. 1620 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	H6808	96	145.013	0.026	1.6	0.0375	0.0000	OK
180 minute summer	H7801	96	144.775	0.034	4.6	0.0480	0.0000	OK
180 minute summer	H7907	96	144.009	0.041	9.0	0.0581	0.0000	OK
180 minute summer	H7908	96	140.830	0.044	11.0	0.0629	0.0000	OK
180 minute summer	H7905	96	139.916	0.047	12.8	0.0670	0.0000	OK
180 minute summer	H7906	96	138.436	0.052	15.3	0.0743	0.0000	OK
180 minute summer	H8001	96	135.407	0.064	19.2	0.0921	0.0000	OK
180 minute summer	H8002	96	133.200	0.073	23.3	0.1048	0.0000	OK
180 minute summer	H8105	96	132.092	0.091	25.6	0.1297	0.0000	OK
180 minute summer	H8103	96	131.491	0.075	25.6	0.1079	0.0000	OK
180 minute summer	H8104	96	131.174	0.099	32.5	0.1421	0.0000	OK
180 minute summer	H8207	96	130.286	0.102	37.3	0.1457	0.0000	OK
180 minute summer	H8206	96	129.869	0.108	40.7	0.1552	0.0000	OK
180 minute summer	H8205	96	129.559	0.109	43.0	0.1564	0.0000	OK
180 minute summer	H8204	96	129.248	0.098	43.0	0.1402	0.0000	OK
180 minute summer	S7202	100	130.144	0.144	92.2	0.2065	0.0000	OK
180 minute summer	S8208	100	129.545	0.115	92.1	0.1641	0.0000	OK
180 minute summer	S8201	100	128.962	0.151	137.0	0.2167	0.0000	OK
180 minute summer	S8203	100	128.162	0.142	137.0	0.2036	0.0000	OK
180 minute summer	S7324	100	127.930	0.130	137.1	0.0000	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	H6808	1.000	H7801	1.6	0.511	0.029	0.0686	
180 minute summer	H7801	1.001	H7907	4.6	1.137	0.048	0.1003	
180 minute summer	H7907	1.002	H7908	9.0	1.738	0.071	0.2838	
180 minute summer	H7908	1.003	H7905	10.9	1.919	0.081	0.0784	
180 minute summer	H7905	1.004	H7906	12.8	1.998	0.095	0.1430	
180 minute summer	H7906	1.005	H8001	15.3	1.890	0.117	0.3968	
180 minute summer	H8001	1.006	H8002	19.2	2.077	0.174	0.4443	
180 minute summer	H8002	1.007	H8105	23.3	1.496	0.133	0.7065	
180 minute summer	H8105	1.008	H8103	25.6	1.459	0.189	0.6073	
180 minute summer	H8103	1.009	H8104	25.6	1.315	0.088	0.3171	
180 minute summer	H8104	1.010	H8207	32.4	1.367	0.154	1.9100	
180 minute summer	H8207	1.011	H8206	37.3	1.476	0.155	0.7467	
180 minute summer	H8206	1.012	H8205	40.6	1.533	0.168	0.5639	
180 minute summer	H8205	1.013	H8204	43.0	1.738	0.163	0.4301	
180 minute summer	H8204	1.014	S8201	43.0	1.344	0.144	0.4972	
180 minute summer	S7202	2.000	S8208	92.1	2.444	0.192	0.9829	
180 minute summer	S8208	2.001	S8201	92.0	2.373	0.131	0.5196	
180 minute summer	S8201	1.015	S8203	137.0	3.054	0.209	0.8697	
180 minute summer	S8203	1.016	S7324	137.1	1.701	0.187	1.3754	506.5

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Results for 2 year 180 minute winter. 1620 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	H6808	100	145.011	0.024	1.3	0.0341	0.0000	OK
180 minute winter	H7801	100	144.772	0.031	3.8	0.0439	0.0000	OK
180 minute winter	H7907	100	144.004	0.036	6.9	0.0511	0.0000	OK
180 minute winter	H7908	100	140.824	0.038	8.3	0.0547	0.0000	OK
180 minute winter	H7905	100	139.910	0.041	9.7	0.0583	0.0000	OK
180 minute winter	H7906	100	138.429	0.045	11.5	0.0644	0.0000	OK
180 minute winter	H8001	100	135.399	0.056	14.4	0.0794	0.0000	OK
180 minute winter	H8002	100	133.190	0.063	17.3	0.0904	0.0000	OK
180 minute winter	H8105	100	132.078	0.077	18.9	0.1105	0.0000	OK
180 minute winter	H8103	100	131.480	0.064	18.9	0.0921	0.0000	OK
180 minute winter	H8104	96	131.159	0.084	23.5	0.1207	0.0000	OK
180 minute winter	H8207	96	130.270	0.085	26.8	0.1223	0.0000	OK
180 minute winter	H8206	96	129.851	0.091	29.1	0.1298	0.0000	OK
180 minute winter	H8205	96	129.541	0.091	30.7	0.1308	0.0000	OK
180 minute winter	H8204	100	129.231	0.081	30.7	0.1154	0.0000	OK
180 minute winter	S7202	100	130.124	0.124	69.1	0.1769	0.0000	OK
180 minute winter	S8208	100	129.528	0.098	69.1	0.1398	0.0000	OK
180 minute winter	S8201	100	128.939	0.129	103.1	0.1849	0.0000	OK
180 minute winter	S8203	100	128.142	0.122	103.1	0.1739	0.0000	OK
180 minute winter	S7324	100	127.912	0.112	103.1	0.0000	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	H6808	1.000	H7801	1.3	0.480	0.024	0.0599	
180 minute winter	H7801	1.001	H7907	3.8	1.147	0.040	0.0853	
180 minute winter	H7907	1.002	H7908	6.9	1.623	0.055	0.2339	
180 minute winter	H7908	1.003	H7905	8.3	1.778	0.061	0.0641	
180 minute winter	H7905	1.004	H7906	9.7	1.845	0.072	0.1168	
180 minute winter	H7906	1.005	H8001	11.5	1.745	0.088	0.3229	
180 minute winter	H8001	1.006	H8002	14.4	1.916	0.131	0.3616	
180 minute winter	H8002	1.007	H8105	17.3	1.385	0.099	0.5680	
180 minute winter	H8105	1.008	H8103	18.9	1.342	0.140	0.4873	
180 minute winter	H8103	1.009	H8104	18.9	1.224	0.065	0.2519	
180 minute winter	H8104	1.010	H8207	23.5	1.257	0.111	1.5039	
180 minute winter	H8207	1.011	H8206	26.7	1.358	0.111	0.5819	
180 minute winter	H8206	1.012	H8205	29.1	1.410	0.120	0.4383	
180 minute winter	H8205	1.013	H8204	30.7	1.612	0.116	0.3306	
180 minute winter	H8204	1.014	S8201	30.7	1.222	0.103	0.3928	
180 minute winter	S7202	2.000	S8208	69.1	2.287	0.144	0.7883	
180 minute winter	S8208	2.001	S8201	69.0	2.207	0.098	0.4154	
180 minute winter	S8201	1.015	S8203	103.1	2.863	0.157	0.6979	
180 minute winter	S8203	1.016	S7324	103.1	1.580	0.140	1.1131	510.3

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Results for 2 year 240 minute summer. 1680 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	H6808	128	145.012	0.025	1.4	0.0354	0.0000	OK
240 minute summer	H7801	128	144.773	0.032	4.2	0.0461	0.0000	OK
240 minute summer	H7907	124	144.007	0.039	8.2	0.0554	0.0000	OK
240 minute summer	H7908	124	140.828	0.042	9.8	0.0595	0.0000	OK
240 minute summer	H7905	124	139.913	0.044	11.6	0.0635	0.0000	OK
240 minute summer	H7906	124	138.433	0.049	13.8	0.0705	0.0000	OK
240 minute summer	H8001	124	135.404	0.061	17.4	0.0870	0.0000	OK
240 minute summer	H8002	124	133.196	0.069	20.9	0.0991	0.0000	OK
240 minute summer	H8105	124	132.086	0.085	22.8	0.1215	0.0000	OK
240 minute summer	H8103	128	131.487	0.071	22.6	0.1012	0.0000	OK
240 minute summer	H8104	128	131.168	0.093	28.5	0.1327	0.0000	OK
240 minute summer	H8207	128	130.279	0.095	32.5	0.1357	0.0000	OK
240 minute summer	H8206	128	129.861	0.101	35.4	0.1442	0.0000	OK
240 minute summer	H8205	128	129.552	0.102	37.5	0.1455	0.0000	OK
240 minute summer	H8204	128	129.241	0.091	37.6	0.1297	0.0000	OK
240 minute summer	S7202	128	130.135	0.135	81.5	0.1932	0.0000	OK
240 minute summer	S8208	132	129.537	0.107	81.5	0.1534	0.0000	OK
240 minute summer	S8201	128	128.953	0.143	123.1	0.2040	0.0000	OK
240 minute summer	S8203	128	128.154	0.134	123.0	0.1917	0.0000	OK
240 minute summer	S7324	128	127.923	0.123	122.9	0.0000	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	H6808	1.000	H7801	1.4	0.487	0.025	0.0639	
240 minute summer	H7801	1.001	H7907	4.2	1.147	0.044	0.0939	
240 minute summer	H7907	1.002	H7908	8.1	1.702	0.065	0.2633	
240 minute summer	H7908	1.003	H7905	9.8	1.856	0.072	0.0724	
240 minute summer	H7905	1.004	H7906	11.5	1.938	0.085	0.1325	
240 minute summer	H7906	1.005	H8001	13.8	1.837	0.106	0.3673	
240 minute summer	H8001	1.006	H8002	17.2	2.014	0.156	0.4107	
240 minute summer	H8002	1.007	H8105	20.8	1.458	0.118	0.6482	
240 minute summer	H8105	1.008	H8103	22.6	1.412	0.168	0.5552	
240 minute summer	H8103	1.009	H8104	22.6	1.280	0.078	0.2887	
240 minute summer	H8104	1.010	H8207	28.4	1.322	0.135	1.7317	
240 minute summer	H8207	1.011	H8206	32.6	1.430	0.136	0.6746	
240 minute summer	H8206	1.012	H8205	35.5	1.484	0.147	0.5091	
240 minute summer	H8205	1.013	H8204	37.6	1.688	0.143	0.3871	
240 minute summer	H8204	1.014	S8201	37.7	1.295	0.126	0.4541	
240 minute summer	S7202	2.000	S8208	81.5	2.377	0.170	0.8948	
240 minute summer	S8208	2.001	S8201	81.5	2.301	0.116	0.4746	
240 minute summer	S8201	1.015	S8203	123.0	2.981	0.188	0.7999	
240 minute summer	S8203	1.016	S7324	122.9	1.654	0.167	1.2685	568.9

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Results for 2 year 240 minute winter. 1680 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 winter	H6808	156	145.011	0.024	1.3	0.0340	0.0000	OK
240 minute winter	H7801	192	144.772	0.031	3.8	0.0445	0.0000	OK
240 minute winter	H7907	128	144.002	0.034	6.3	0.0490	0.0000	OK
240 minute winter	H7908	128	140.823	0.037	7.6	0.0525	0.0000	OK
240 minute winter	H7905	128	139.908	0.039	8.8	0.0556	0.0000	OK
240 minute winter	H7906	128	138.427	0.043	10.5	0.0616	0.0000	OK
240 minute winter	H8001	128	135.396	0.053	13.1	0.0757	0.0000	OK
240 minute winter	H8002	128	133.187	0.060	15.8	0.0864	0.0000	OK
240 minute winter	H8105	128	132.074	0.073	17.1	0.1051	0.0000	OK
240 minute winter	H8103	128	131.477	0.061	17.1	0.0876	0.0000	OK
240 minute winter	H8104	128	131.155	0.080	21.0	0.1141	0.0000	OK
240 minute winter	H8207	128	130.265	0.081	23.8	0.1153	0.0000	OK
240 minute winter	H8206	128	129.845	0.085	25.8	0.1218	0.0000	OK
240 minute winter	H8205	128	129.536	0.086	27.2	0.1227	0.0000	OK
240 minute winter	H8204	128	129.226	0.076	27.2	0.1083	0.0000	OK
240 minute winter	S7202	132	130.114	0.114	58.9	0.1627	0.0000	OK
240 minute winter	S8208	132	129.520	0.090	58.9	0.1281	0.0000	OK
240 minute winter	S8201	128	128.929	0.119	89.0	0.1706	0.0000	OK
240 minute winter	S8203	128	128.132	0.112	88.9	0.1606	0.0000	OK
240 minute winter	S7324	128	127.904	0.104	88.9	0.0000	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	H6808	1.000	H7801	1.3	0.475	0.023	0.0597	
240 minute winter	H7801	1.001	H7907	3.8	1.158	0.040	0.0817	
240 minute winter	H7907	1.002	H7908	6.3	1.597	0.050	0.2198	
240 minute winter	H7908	1.003	H7905	7.6	1.739	0.056	0.0601	
240 minute winter	H7905	1.004	H7906	8.8	1.797	0.065	0.1095	
240 minute winter	H7906	1.005	H8001	10.5	1.702	0.081	0.3024	
240 minute winter	H8001	1.006	H8002	13.1	1.865	0.119	0.3379	
240 minute winter	H8002	1.007	H8105	15.8	1.353	0.090	0.5304	
240 minute winter	H8105	1.008	H8103	17.1	1.306	0.127	0.4540	
240 minute winter	H8103	1.009	H8104	17.1	1.195	0.059	0.2335	
240 minute winter	H8104	1.010	H8207	21.0	1.221	0.100	1.3860	
240 minute winter	H8207	1.011	H8206	23.8	1.320	0.099	0.5333	
240 minute winter	H8206	1.012	H8205	25.8	1.368	0.107	0.4007	
240 minute winter	H8205	1.013	H8204	27.2	1.564	0.103	0.3022	
240 minute winter	H8204	1.014	S8201	27.2	1.197	0.091	0.3540	
240 minute winter	S7202	2.000	S8208	58.9	2.200	0.123	0.6987	
240 minute winter	S8208	2.001	S8201	58.9	2.122	0.084	0.3691	
240 minute winter	S8201	1.015	S8203	88.9	2.764	0.136	0.6235	
240 minute winter	S8203	1.016	S7324	88.9	1.520	0.121	0.9979	573.9

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Results for 2 year 360 minute summer. 1800 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	H6808	192	145.011	0.024	1.3	0.0341	0.0000	OK
360 minute summer	H7801	184	144.772	0.031	3.9	0.0443	0.0000	OK
360 minute summer	H7907	184	144.004	0.036	7.1	0.0516	0.0000	OK
360 minute summer	H7908	184	140.825	0.039	8.5	0.0553	0.0000	OK
360 minute summer	H7905	184	139.910	0.041	10.0	0.0590	0.0000	OK
360 minute summer	H7906	184	138.430	0.046	11.8	0.0652	0.0000	OK
360 minute summer	H8001	184	135.399	0.056	14.8	0.0802	0.0000	OK
360 minute summer	H8002	184	133.191	0.064	17.6	0.0911	0.0000	OK
360 minute summer	H8105	184	132.079	0.078	19.2	0.1110	0.0000	OK
360 minute summer	H8103	184	131.481	0.065	19.0	0.0925	0.0000	OK
360 minute summer	H8104	184	131.159	0.084	23.7	0.1208	0.0000	OK
360 minute summer	H8207	184	130.269	0.085	26.8	0.1222	0.0000	OK
360 minute summer	H8206	184	129.851	0.090	29.0	0.1294	0.0000	OK
360 minute summer	H8205	184	129.541	0.091	30.6	0.1304	0.0000	OK
360 minute summer	H8204	184	129.231	0.081	30.5	0.1152	0.0000	OK
360 minute summer	S7202	192	130.121	0.120	65.8	0.1724	0.0000	OK
360 minute summer	S8208	192	129.525	0.095	65.8	0.1361	0.0000	OK
360 minute summer	S8201	192	128.936	0.126	98.3	0.1801	0.0000	OK
360 minute summer	S8203	192	128.139	0.118	98.3	0.1695	0.0000	OK
360 minute summer	S7324	192	127.910	0.110	98.3	0.0000	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	H6808	1.000	H7801	1.3	0.477	0.024	0.0602	
360 minute summer	H7801	1.001	H7907	3.9	1.146	0.041	0.0864	
360 minute summer	H7907	1.002	H7908	7.0	1.629	0.056	0.2373	
360 minute summer	H7908	1.003	H7905	8.5	1.786	0.063	0.0652	
360 minute summer	H7905	1.004	H7906	9.9	1.859	0.074	0.1190	
360 minute summer	H7906	1.005	H8001	11.8	1.760	0.090	0.3278	
360 minute summer	H8001	1.006	H8002	14.7	1.924	0.133	0.3660	
360 minute summer	H8002	1.007	H8105	17.6	1.394	0.100	0.5728	
360 minute summer	H8105	1.008	H8103	19.0	1.344	0.141	0.4900	
360 minute summer	H8103	1.009	H8104	19.0	1.224	0.065	0.2527	
360 minute summer	H8104	1.010	H8207	23.5	1.256	0.111	1.5038	
360 minute summer	H8207	1.011	H8206	26.6	1.356	0.111	0.5803	
360 minute summer	H8206	1.012	H8205	28.9	1.406	0.119	0.4365	
360 minute summer	H8205	1.013	H8204	30.5	1.607	0.116	0.3296	
360 minute summer	H8204	1.014	S8201	30.4	1.242	0.102	0.3811	
360 minute summer	S7202	2.000	S8208	65.8	2.260	0.137	0.7596	
360 minute summer	S8208	2.001	S8201	65.7	2.181	0.094	0.4003	
360 minute summer	S8201	1.015	S8203	98.3	2.831	0.150	0.6730	
360 minute summer	S8203	1.016	S7324	98.3	1.560	0.134	1.0747	657.4

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Results for 2 year 360 minute winter. 1800 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 winter	H6808	248	145.011	0.024	1.3	0.0341	0.0000	OK
360 minute winter	H7801	248	144.773	0.032	4.0	0.0454	0.0000	OK
360 minute winter	H7907	216	144.001	0.033	6.0	0.0478	0.0000	OK
360 minute winter	H7908	200	140.821	0.035	7.0	0.0503	0.0000	OK
360 minute winter	H7905	208	139.906	0.037	8.1	0.0533	0.0000	OK
360 minute winter	H7906	208	138.425	0.041	9.6	0.0589	0.0000	OK
360 minute winter	H8001	208	135.393	0.050	11.9	0.0720	0.0000	OK
360 minute winter	H8002	208	133.184	0.057	14.0	0.0813	0.0000	OK
360 minute winter	H8105	192	132.069	0.068	14.9	0.0978	0.0000	OK
360 minute winter	H8103	192	131.473	0.057	14.9	0.0817	0.0000	OK
360 minute winter	H8104	192	131.149	0.074	17.9	0.1055	0.0000	OK
360 minute winter	H8207	192	130.258	0.074	20.0	0.1055	0.0000	OK
360 minute winter	H8206	192	129.837	0.077	21.4	0.1108	0.0000	OK
360 minute winter	H8205	192	129.528	0.078	22.4	0.1110	0.0000	OK
360 minute winter	H8204	192	129.219	0.069	22.4	0.0986	0.0000	OK
360 minute winter	S7202	192	130.100	0.100	45.8	0.1429	0.0000	OK
360 minute winter	S8208	192	129.508	0.078	45.8	0.1118	0.0000	OK
360 minute winter	S8201	192	128.915	0.105	70.5	0.1506	0.0000	OK
360 minute winter	S8203	192	128.119	0.099	70.5	0.1418	0.0000	OK
360 minute winter	S7324	192	127.893	0.093	70.5	0.0000	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	H6808	1.000	H7801	1.3	0.466	0.024	0.0617	
360 minute winter	H7801	1.001	H7907	4.0	1.161	0.042	0.0822	
360 minute winter	H7907	1.002	H7908	6.0	1.586	0.048	0.2092	
360 minute winter	H7908	1.003	H7905	7.0	1.705	0.052	0.0565	
360 minute winter	H7905	1.004	H7906	8.1	1.756	0.060	0.1029	
360 minute winter	H7906	1.005	H8001	9.6	1.662	0.073	0.2822	
360 minute winter	H8001	1.006	H8002	11.9	1.814	0.108	0.3146	
360 minute winter	H8002	1.007	H8105	14.0	1.315	0.079	0.4819	
360 minute winter	H8105	1.008	H8103	14.9	1.257	0.110	0.4107	
360 minute winter	H8103	1.009	H8104	14.9	1.167	0.051	0.2095	
360 minute winter	H8104	1.010	H8207	17.9	1.171	0.085	1.2281	
360 minute winter	H8207	1.011	H8206	19.9	1.262	0.083	0.4673	
360 minute winter	H8206	1.012	H8205	21.4	1.308	0.089	0.3486	
360 minute winter	H8205	1.013	H8204	22.4	1.484	0.085	0.2629	
360 minute winter	H8204	1.014	S8201	22.4	1.174	0.075	0.3017	
360 minute winter	S7202	2.000	S8208	45.8	2.069	0.095	0.5781	
360 minute winter	S8208	2.001	S8201	45.8	1.981	0.065	0.3073	
360 minute winter	S8201	1.015	S8203	70.5	2.614	0.108	0.5226	
360 minute winter	S8203	1.016	S7324	70.5	1.429	0.096	0.8410	667.8

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Results for 2 year 480 minute summer. 1920 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
480 minute summer	H6808	296	145.010	0.023	1.2	0.0328	0.0000	OK
480 minute summer	H7801	312	144.771	0.030	3.6	0.0432	0.0000	OK
480 minute summer	H7907	248	144.001	0.033	6.0	0.0477	0.0000	OK
480 minute summer	H7908	248	140.822	0.036	7.2	0.0509	0.0000	OK
480 minute summer	H7905	248	139.907	0.038	8.4	0.0542	0.0000	OK
480 minute summer	H7906	248	138.426	0.042	9.9	0.0597	0.0000	OK
480 minute summer	H8001	248	135.394	0.051	12.4	0.0734	0.0000	OK
480 minute summer	H8002	248	133.186	0.058	14.8	0.0837	0.0000	OK
480 minute summer	H8105	248	132.072	0.071	16.1	0.1018	0.0000	OK
480 minute summer	H8103	248	131.475	0.059	16.1	0.0849	0.0000	OK
480 minute summer	H8104	248	131.153	0.078	19.9	0.1110	0.0000	OK
480 minute summer	H8207	248	130.262	0.078	22.6	0.1121	0.0000	OK
480 minute summer	H8206	248	129.843	0.083	24.4	0.1184	0.0000	OK
480 minute summer	H8205	248	129.533	0.083	25.7	0.1192	0.0000	OK
480 minute summer	H8204	248	129.224	0.074	25.7	0.1054	0.0000	OK
480 minute summer	S7202	248	130.110	0.110	55.6	0.1579	0.0000	OK
480 minute summer	S8208	248	129.517	0.087	55.5	0.1240	0.0000	OK
480 minute summer	S8201	248	128.926	0.116	84.0	0.1654	0.0000	OK
480 minute summer	S8203	248	128.129	0.109	84.0	0.1557	0.0000	OK
480 minute summer	S7324	248	127.901	0.101	83.9	0.0000	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	H6808	1.000	H7801	1.2	0.458	0.022	0.0574	
480 minute summer	H7801	1.001	H7907	3.6	1.134	0.038	0.0780	
480 minute summer	H7907	1.002	H7908	6.0	1.563	0.048	0.2110	
480 minute summer	H7908	1.003	H7905	7.2	1.706	0.053	0.0577	
480 minute summer	H7905	1.004	H7906	8.4	1.772	0.062	0.1051	
480 minute summer	H7906	1.005	H8001	9.9	1.668	0.076	0.2891	
480 minute summer	H8001	1.006	H8002	12.3	1.833	0.112	0.3233	
480 minute summer	H8002	1.007	H8105	14.8	1.327	0.084	0.5070	
480 minute summer	H8105	1.008	H8103	16.1	1.284	0.119	0.4344	
480 minute summer	H8103	1.009	H8104	16.1	1.173	0.055	0.2238	
480 minute summer	H8104	1.010	H8207	19.9	1.201	0.094	1.3316	
480 minute summer	H8207	1.011	H8206	22.5	1.300	0.094	0.5122	
480 minute summer	H8206	1.012	H8205	24.4	1.350	0.101	0.3844	
480 minute summer	H8205	1.013	H8204	25.7	1.540	0.098	0.2900	
480 minute summer	H8204	1.014	S8201	25.7	1.180	0.086	0.3395	
480 minute summer	S7202	2.000	S8208	55.5	2.169	0.116	0.6684	
480 minute summer	S8208	2.001	S8201	55.4	2.088	0.079	0.3532	
480 minute summer	S8201	1.015	S8203	84.0	2.726	0.128	0.5968	
480 minute summer	S8203	1.016	S7324	83.9	1.496	0.114	0.9559	717.4

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Results for 2 year 480 minute winter. 1920 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
480 minute winter	H6808	288	145.010	0.023	1.2	0.0328	0.0000	OK
480 minute winter	H7801	304	144.772	0.031	3.8	0.0440	0.0000	OK
480 minute winter	H7907	288	144.000	0.032	5.6	0.0462	0.0000	OK
480 minute winter	H7908	288	140.820	0.034	6.4	0.0482	0.0000	OK
480 minute winter	H7905	272	139.905	0.036	7.4	0.0510	0.0000	OK
480 minute winter	H7906	272	138.423	0.039	8.7	0.0561	0.0000	OK
480 minute winter	H8001	272	135.391	0.048	10.8	0.0684	0.0000	OK
480 minute winter	H8002	272	133.181	0.054	12.6	0.0774	0.0000	OK
480 minute winter	H8105	272	132.066	0.065	13.3	0.0923	0.0000	OK
480 minute winter	H8103	272	131.470	0.054	13.3	0.0774	0.0000	OK
480 minute winter	H8104	256	131.144	0.069	15.6	0.0987	0.0000	OK
480 minute winter	H8207	256	130.253	0.069	17.3	0.0983	0.0000	OK
480 minute winter	H8206	248	129.832	0.072	18.6	0.1029	0.0000	OK
480 minute winter	H8205	256	129.522	0.072	19.5	0.1031	0.0000	OK
480 minute winter	H8204	256	129.214	0.064	19.5	0.0921	0.0000	OK
480 minute winter	S7202	248	130.090	0.090	37.7	0.1294	0.0000	OK
480 minute winter	S8208	248	129.500	0.070	37.7	0.1007	0.0000	OK
480 minute winter	S8201	248	128.906	0.096	59.0	0.1370	0.0000	OK
480 minute winter	S8203	248	128.110	0.090	59.0	0.1291	0.0000	OK
480 minute winter	S7324	248	127.885	0.085	59.0	0.0000	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	H6808	1.000	H7801	1.2	0.460	0.022	0.0587	
480 minute winter	H7801	1.001	H7907	3.8	1.132	0.040	0.0785	
480 minute winter	H7907	1.002	H7908	5.6	1.556	0.044	0.1979	
480 minute winter	H7908	1.003	H7905	6.4	1.664	0.047	0.0530	
480 minute winter	H7905	1.004	H7906	7.4	1.707	0.055	0.0960	
480 minute winter	H7906	1.005	H8001	8.7	1.614	0.066	0.2627	
480 minute winter	H8001	1.006	H8002	10.7	1.761	0.097	0.2929	
480 minute winter	H8002	1.007	H8105	12.6	1.284	0.072	0.4464	
480 minute winter	H8105	1.008	H8103	13.3	1.217	0.099	0.3788	
480 minute winter	H8103	1.009	H8104	13.3	1.135	0.046	0.1915	
480 minute winter	H8104	1.010	H8207	15.6	1.129	0.074	1.1140	
480 minute winter	H8207	1.011	H8206	17.3	1.216	0.072	0.4213	
480 minute winter	H8206	1.012	H8205	18.6	1.258	0.077	0.3137	
480 minute winter	H8205	1.013	H8204	19.5	1.426	0.074	0.2372	
480 minute winter	H8204	1.014	S8201	19.5	1.157	0.065	0.2672	
480 minute winter	S7202	2.000	S8208	37.7	1.970	0.079	0.4998	
480 minute winter	S8208	2.001	S8201	37.7	1.878	0.054	0.2668	
480 minute winter	S8201	1.015	S8203	59.0	2.501	0.090	0.4570	
480 minute winter	S8203	1.016	S7324	59.0	1.362	0.080	0.7385	730.7

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Results for 2 year 600 minute summer. 2040 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
600 minute summer	H6808	330	145.009	0.022	1.1	0.0315	0.0000	OK
600 minute summer	H7801	375	144.770	0.029	3.4	0.0419	0.0000	OK
600 minute summer	H7907	315	144.000	0.032	5.5	0.0457	0.0000	OK
600 minute summer	H7908	315	140.820	0.034	6.6	0.0488	0.0000	OK
600 minute summer	H7905	315	139.905	0.036	7.6	0.0516	0.0000	OK
600 minute summer	H7906	315	138.424	0.040	9.0	0.0570	0.0000	OK
600 minute summer	H8001	315	135.392	0.049	11.2	0.0697	0.0000	OK
600 minute summer	H8002	315	133.183	0.056	13.3	0.0794	0.0000	OK
600 minute summer	H8105	315	132.068	0.067	14.4	0.0961	0.0000	OK
600 minute summer	H8103	315	131.472	0.056	14.4	0.0804	0.0000	OK
600 minute summer	H8104	315	131.148	0.073	17.5	0.1041	0.0000	OK
600 minute summer	H8207	315	130.257	0.073	19.6	0.1045	0.0000	OK
600 minute summer	H8206	315	129.837	0.077	21.2	0.1100	0.0000	OK
600 minute summer	H8205	315	129.527	0.077	22.3	0.1106	0.0000	OK
600 minute summer	H8204	315	129.219	0.069	22.3	0.0983	0.0000	OK
600 minute summer	S7202	315	130.101	0.101	46.9	0.1446	0.0000	OK
600 minute summer	S8208	315	129.509	0.079	46.9	0.1133	0.0000	OK
600 minute summer	S8201	315	128.916	0.106	71.4	0.1516	0.0000	OK
600 minute summer	S8203	315	128.120	0.100	71.4	0.1428	0.0000	OK
600 minute summer	S7324	315	127.893	0.093	71.4	0.0000	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	H6808	1.000	H7801	1.1	0.456	0.020	0.0549	
600 minute summer	H7801	1.001	H7907	3.4	1.105	0.036	0.0740	
600 minute summer	H7907	1.002	H7908	5.5	1.521	0.044	0.1984	
600 minute summer	H7908	1.003	H7905	6.6	1.672	0.049	0.0540	
600 minute summer	H7905	1.004	H7906	7.6	1.715	0.056	0.0980	
600 minute summer	H7906	1.005	H8001	9.0	1.628	0.069	0.2692	
600 minute summer	H8001	1.006	H8002	11.1	1.780	0.101	0.3004	
600 minute summer	H8002	1.007	H8105	13.3	1.289	0.076	0.4685	
600 minute summer	H8105	1.008	H8103	14.4	1.245	0.106	0.4005	
600 minute summer	H8103	1.009	H8104	14.4	1.142	0.049	0.2052	
600 minute summer	H8104	1.010	H8207	17.4	1.161	0.083	1.2095	
600 minute summer	H8207	1.011	H8206	19.6	1.254	0.082	0.4622	
600 minute summer	H8206	1.012	H8205	21.2	1.302	0.088	0.3460	
600 minute summer	H8205	1.013	H8204	22.3	1.481	0.085	0.2615	
600 minute summer	H8204	1.014	S8201	22.3	1.146	0.075	0.3030	
600 minute summer	S7202	2.000	S8208	46.9	2.079	0.098	0.5886	
600 minute summer	S8208	2.001	S8201	46.9	1.999	0.067	0.3114	
600 minute summer	S8201	1.015	S8203	71.4	2.622	0.109	0.5276	
600 minute summer	S8203	1.016	S7324	71.4	1.434	0.097	0.8487	764.5

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Results for 2 year 600 minute winter. 2040 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
600 minute winter	H6808	375	145.009	0.022	1.1	0.0315	0.0000	OK
600 minute winter	H7801	375	144.770	0.029	3.4	0.0418	0.0000	OK
600 minute winter	H7907	375	143.999	0.031	5.0	0.0438	0.0000	OK
600 minute winter	H7908	330	140.818	0.032	5.8	0.0458	0.0000	OK
600 minute winter	H7905	345	139.903	0.034	6.6	0.0483	0.0000	OK
600 minute winter	H7906	345	138.421	0.037	7.8	0.0533	0.0000	OK
600 minute winter	H8001	345	135.389	0.045	9.7	0.0650	0.0000	OK
600 minute winter	H8002	345	133.179	0.051	11.4	0.0737	0.0000	OK
600 minute winter	H8105	330	132.062	0.061	12.1	0.0879	0.0000	OK
600 minute winter	H8103	330	131.468	0.052	12.1	0.0739	0.0000	OK
600 minute winter	H8104	330	131.141	0.066	14.1	0.0939	0.0000	OK
600 minute winter	H8207	330	130.249	0.065	15.5	0.0929	0.0000	OK
600 minute winter	H8206	330	129.828	0.068	16.5	0.0969	0.0000	OK
600 minute winter	H8205	330	129.518	0.068	17.2	0.0968	0.0000	OK
600 minute winter	H8204	330	129.211	0.060	17.2	0.0866	0.0000	OK
600 minute winter	S7202	315	130.083	0.083	32.1	0.1194	0.0000	OK
600 minute winter	S8208	315	129.495	0.065	32.1	0.0926	0.0000	OK
600 minute winter	S8201	315	128.899	0.089	50.8	0.1267	0.0000	OK
600 minute winter	S8203	315	128.104	0.083	50.8	0.1195	0.0000	OK
600 minute winter	S7324	315	127.879	0.079	50.8	0.0000	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	H6808	1.000	H7801	1.1	0.444	0.020	0.0547	
600 minute winter	H7801	1.001	H7907	3.4	1.093	0.036	0.0731	
600 minute winter	H7907	1.002	H7908	5.0	1.508	0.040	0.1835	
600 minute winter	H7908	1.003	H7905	5.8	1.616	0.043	0.0492	
600 minute winter	H7905	1.004	H7906	6.6	1.657	0.049	0.0890	
600 minute winter	H7906	1.005	H8001	7.8	1.564	0.060	0.2442	
600 minute winter	H8001	1.006	H8002	9.7	1.711	0.088	0.2725	
600 minute winter	H8002	1.007	H8105	11.4	1.246	0.065	0.4155	
600 minute winter	H8105	1.008	H8103	12.1	1.184	0.089	0.3533	
600 minute winter	H8103	1.009	H8104	12.1	1.105	0.042	0.1787	
600 minute winter	H8104	1.010	H8207	14.1	1.098	0.067	1.0311	
600 minute winter	H8207	1.011	H8206	15.5	1.181	0.064	0.3873	
600 minute winter	H8206	1.012	H8205	16.5	1.220	0.068	0.2868	
600 minute winter	H8205	1.013	H8204	17.2	1.377	0.065	0.2167	
600 minute winter	H8204	1.014	S8201	17.2	1.139	0.058	0.2410	
600 minute winter	S7202	2.000	S8208	32.1	1.888	0.067	0.4442	
600 minute winter	S8208	2.001	S8201	32.1	1.798	0.046	0.2377	
600 minute winter	S8201	1.015	S8203	50.8	2.407	0.078	0.4088	
600 minute winter	S8203	1.016	S7324	50.8	1.306	0.069	0.6627	776.7

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Results for 2 year 720 minute summer. 2160 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
720 minute summer	H6808	420	145.009	0.022	1.1	0.0315	0.0000	OK
720 minute summer	H7801	420	144.770	0.029	3.4	0.0418	0.0000	OK
720 minute summer	H7907	375	143.999	0.031	5.1	0.0441	0.0000	OK
720 minute summer	H7908	375	140.819	0.033	6.1	0.0469	0.0000	OK
720 minute summer	H7905	375	139.904	0.035	7.0	0.0496	0.0000	OK
720 minute summer	H7906	375	138.422	0.038	8.3	0.0548	0.0000	OK
720 minute summer	H8001	375	135.390	0.047	10.4	0.0671	0.0000	OK
720 minute summer	H8002	375	133.181	0.053	12.3	0.0765	0.0000	OK
720 minute summer	H8105	375	132.065	0.064	13.2	0.0919	0.0000	OK
720 minute summer	H8103	375	131.470	0.054	13.2	0.0771	0.0000	OK
720 minute summer	H8104	375	131.145	0.070	16.0	0.0997	0.0000	OK
720 minute summer	H8207	375	130.254	0.070	18.0	0.1000	0.0000	OK
720 minute summer	H8206	375	129.833	0.073	19.3	0.1050	0.0000	OK
720 minute summer	H8205	375	129.524	0.074	20.3	0.1054	0.0000	OK
720 minute summer	H8204	375	129.216	0.066	20.3	0.0940	0.0000	OK
720 minute summer	S7202	375	130.095	0.095	41.9	0.1365	0.0000	OK
720 minute summer	S8208	375	129.505	0.075	41.9	0.1067	0.0000	OK
720 minute summer	S8201	375	128.910	0.100	64.3	0.1433	0.0000	OK
720 minute summer	S8203	375	128.114	0.094	64.2	0.1350	0.0000	OK
720 minute summer	S7324	375	127.889	0.089	64.2	0.0000	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	H6808	1.000	H7801	1.1	0.450	0.020	0.0547	
720 minute summer	H7801	1.001	H7907	3.4	1.092	0.036	0.0731	
720 minute summer	H7907	1.002	H7908	5.1	1.508	0.040	0.1879	
720 minute summer	H7908	1.003	H7905	6.1	1.635	0.045	0.0510	
720 minute summer	H7905	1.004	H7906	7.0	1.674	0.052	0.0926	
720 minute summer	H7906	1.005	H8001	8.3	1.585	0.063	0.2550	
720 minute summer	H8001	1.006	H8002	10.3	1.742	0.094	0.2851	
720 minute summer	H8002	1.007	H8105	12.3	1.266	0.070	0.4417	
720 minute summer	H8105	1.008	H8103	13.2	1.214	0.098	0.3767	
720 minute summer	H8103	1.009	H8104	13.2	1.115	0.045	0.1931	
720 minute summer	H8104	1.010	H8207	16.0	1.132	0.076	1.1358	
720 minute summer	H8207	1.011	H8206	17.9	1.225	0.075	0.4329	
720 minute summer	H8206	1.012	H8205	19.3	1.271	0.080	0.3232	
720 minute summer	H8205	1.013	H8204	20.3	1.443	0.077	0.2446	
720 minute summer	H8204	1.014	S8201	20.3	1.125	0.068	0.2814	
720 minute summer	S7202	2.000	S8208	41.9	2.021	0.087	0.5411	
720 minute summer	S8208	2.001	S8201	41.9	1.942	0.060	0.2867	
720 minute summer	S8201	1.015	S8203	64.2	2.555	0.098	0.4873	
720 minute summer	S8203	1.016	S7324	64.2	1.394	0.087	0.7858	803.8

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Results for 2 year 720 minute winter. 2160 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
720 minute winter	H6808	420	145.008	0.021	1.0	0.0301	0.0000	OK
720 minute winter	H7801	435	144.769	0.028	3.2	0.0405	0.0000	OK
720 minute winter	H7907	420	143.998	0.030	4.7	0.0425	0.0000	OK
720 minute winter	H7908	405	140.817	0.031	5.4	0.0443	0.0000	OK
720 minute winter	H7905	435	139.902	0.033	6.2	0.0469	0.0000	OK
720 minute winter	H7906	435	138.420	0.036	7.3	0.0516	0.0000	OK
720 minute winter	H8001	420	135.387	0.044	9.0	0.0626	0.0000	OK
720 minute winter	H8002	420	133.176	0.049	10.5	0.0707	0.0000	OK
720 minute winter	H8105	420	132.060	0.059	11.0	0.0838	0.0000	OK
720 minute winter	H8103	420	131.465	0.049	11.0	0.0707	0.0000	OK
720 minute winter	H8104	405	131.137	0.062	12.7	0.0892	0.0000	OK
720 minute winter	H8207	390	130.246	0.061	13.9	0.0880	0.0000	OK
720 minute winter	H8206	390	129.824	0.064	14.8	0.0918	0.0000	OK
720 minute winter	H8205	375	129.514	0.064	15.4	0.0916	0.0000	OK
720 minute winter	H8204	375	129.207	0.057	15.4	0.0822	0.0000	OK
720 minute winter	S7202	375	130.078	0.078	28.1	0.1117	0.0000	OK
720 minute winter	S8208	375	129.491	0.061	28.1	0.0869	0.0000	OK
720 minute winter	S8201	375	128.893	0.083	44.9	0.1190	0.0000	OK
720 minute winter	S8203	375	128.098	0.078	44.9	0.1122	0.0000	OK
720 minute winter	S7324	375	127.874	0.074	44.9	0.0000	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	H6808	1.000	H7801	1.0	0.442	0.018	0.0519	
720 minute winter	H7801	1.001	H7907	3.2	1.072	0.034	0.0700	
720 minute winter	H7907	1.002	H7908	4.7	1.478	0.037	0.1751	
720 minute winter	H7908	1.003	H7905	5.4	1.586	0.040	0.0469	
720 minute winter	H7905	1.004	H7906	6.2	1.623	0.046	0.0850	
720 minute winter	H7906	1.005	H8001	7.3	1.547	0.056	0.2320	
720 minute winter	H8001	1.006	H8002	9.0	1.673	0.082	0.2583	
720 minute winter	H8002	1.007	H8105	10.5	1.220	0.060	0.3901	
720 minute winter	H8105	1.008	H8103	11.0	1.153	0.081	0.3306	
720 minute winter	H8103	1.009	H8104	11.0	1.077	0.038	0.1664	
720 minute winter	H8104	1.010	H8207	12.7	1.068	0.060	0.9553	
720 minute winter	H8207	1.011	H8206	13.9	1.148	0.058	0.3582	
720 minute winter	H8206	1.012	H8205	14.8	1.186	0.061	0.2650	
720 minute winter	H8205	1.013	H8204	15.4	1.336	0.058	0.2004	
720 minute winter	H8204	1.014	S8201	15.4	1.120	0.052	0.2216	
720 minute winter	S7202	2.000	S8208	28.1	1.820	0.059	0.4038	
720 minute winter	S8208	2.001	S8201	28.1	1.726	0.040	0.2169	
720 minute winter	S8201	1.015	S8203	44.9	2.332	0.069	0.3732	
720 minute winter	S8203	1.016	S7324	44.9	1.263	0.061	0.6061	817.4

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Results for 2 year 960 minute summer. 2400 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	H6808	540	145.008	0.021	1.0	0.0301	0.0000	OK
960 minute summer	H7801	555	144.769	0.028	3.1	0.0400	0.0000	OK
960 minute summer	H7907	540	143.997	0.029	4.6	0.0420	0.0000	OK
960 minute summer	H7908	525	140.817	0.031	5.3	0.0438	0.0000	OK
960 minute summer	H7905	540	139.902	0.032	6.1	0.0465	0.0000	OK
960 minute summer	H7906	540	138.420	0.036	7.2	0.0512	0.0000	OK
960 minute summer	H8001	540	135.387	0.044	8.9	0.0623	0.0000	OK
960 minute summer	H8002	495	133.177	0.050	10.6	0.0709	0.0000	OK
960 minute summer	H8105	495	132.061	0.059	11.3	0.0851	0.0000	OK
960 minute summer	H8103	495	131.466	0.050	11.3	0.0717	0.0000	OK
960 minute summer	H8104	495	131.140	0.064	13.6	0.0923	0.0000	OK
960 minute summer	H8207	495	130.248	0.064	15.2	0.0920	0.0000	OK
960 minute summer	H8206	495	129.827	0.067	16.3	0.0963	0.0000	OK
960 minute summer	H8205	495	129.517	0.067	17.1	0.0965	0.0000	OK
960 minute summer	H8204	495	129.210	0.060	17.1	0.0863	0.0000	OK
960 minute summer	S7202	495	130.086	0.086	34.3	0.1233	0.0000	OK
960 minute summer	S8208	495	129.497	0.067	34.3	0.0960	0.0000	OK
960 minute summer	S8201	495	128.901	0.091	53.0	0.1296	0.0000	OK
960 minute summer	S8203	495	128.105	0.085	53.0	0.1221	0.0000	OK
960 minute summer	S7324	495	127.881	0.081	53.0	0.0000	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	H6808	1.000	H7801	1.0	0.431	0.018	0.0511	
960 minute summer	H7801	1.001	H7907	3.1	1.066	0.033	0.0686	
960 minute summer	H7907	1.002	H7908	4.6	1.467	0.037	0.1723	
960 minute summer	H7908	1.003	H7905	5.3	1.570	0.039	0.0463	
960 minute summer	H7905	1.004	H7906	6.1	1.612	0.045	0.0841	
960 minute summer	H7906	1.005	H8001	7.2	1.532	0.055	0.2299	
960 minute summer	H8001	1.006	H8002	8.9	1.668	0.081	0.2562	
960 minute summer	H8002	1.007	H8105	10.5	1.217	0.060	0.3955	
960 minute summer	H8105	1.008	H8103	11.3	1.163	0.084	0.3376	
960 minute summer	H8103	1.009	H8104	11.3	1.077	0.039	0.1729	
960 minute summer	H8104	1.010	H8207	13.6	1.083	0.065	1.0110	
960 minute summer	H8207	1.011	H8206	15.2	1.173	0.063	0.3829	
960 minute summer	H8206	1.012	H8205	16.3	1.214	0.067	0.2849	
960 minute summer	H8205	1.013	H8204	17.1	1.375	0.065	0.2157	
960 minute summer	H8204	1.014	S8201	17.1	1.114	0.057	0.2458	
960 minute summer	S7202	2.000	S8208	34.3	1.920	0.071	0.4666	
960 minute summer	S8208	2.001	S8201	34.3	1.844	0.049	0.2475	
960 minute summer	S8201	1.015	S8203	53.0	2.435	0.081	0.4221	
960 minute summer	S8203	1.016	S7324	53.0	1.322	0.072	0.6837	867.9

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Results for 2 year 960 minute winter. 2400 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 winter	H6808	525	145.007	0.020	0.9	0.0287	0.0000	OK
960 minute winter	H7801	570	144.768	0.027	2.8	0.0381	0.0000	OK
960 minute winter	H7907	540	143.996	0.028	4.1	0.0398	0.0000	OK
960 minute winter	H7908	540	140.815	0.029	4.7	0.0414	0.0000	OK
960 minute winter	H7905	540	139.900	0.031	5.4	0.0439	0.0000	OK
960 minute winter	H7906	525	138.418	0.034	6.4	0.0484	0.0000	OK
960 minute winter	H8001	540	135.384	0.041	7.8	0.0584	0.0000	OK
960 minute winter	H8002	540	133.173	0.046	9.1	0.0660	0.0000	OK
960 minute winter	H8105	540	132.056	0.055	9.6	0.0784	0.0000	OK
960 minute winter	H8103	540	131.462	0.046	9.6	0.0663	0.0000	OK
960 minute winter	H8104	525	131.133	0.058	11.0	0.0833	0.0000	OK
960 minute winter	H8207	525	130.241	0.057	12.0	0.0818	0.0000	OK
960 minute winter	H8206	525	129.819	0.059	12.7	0.0850	0.0000	OK
960 minute winter	H8205	525	129.509	0.059	13.2	0.0846	0.0000	OK
960 minute winter	H8204	525	129.203	0.053	13.2	0.0762	0.0000	OK
960 minute winter	S7202	495	130.070	0.070	22.8	0.1004	0.0000	OK
960 minute winter	S8208	495	129.485	0.055	22.8	0.0787	0.0000	OK
960 minute winter	S8201	495	128.885	0.075	36.9	0.1077	0.0000	OK
960 minute winter	S8203	495	128.091	0.071	36.9	0.1015	0.0000	OK
960 minute winter	S7324	495	127.868	0.068	36.9	0.0000	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	H6808	1.000	H7801	0.9	0.428	0.016	0.0476	
960 minute winter	H7801	1.001	H7907	2.8	1.037	0.030	0.0637	
960 minute winter	H7907	1.002	H7908	4.1	1.420	0.033	0.1589	
960 minute winter	H7908	1.003	H7905	4.7	1.518	0.035	0.0426	
960 minute winter	H7905	1.004	H7906	5.4	1.560	0.040	0.0773	
960 minute winter	H7906	1.005	H8001	6.4	1.486	0.049	0.2103	
960 minute winter	H8001	1.006	H8002	7.8	1.604	0.071	0.2336	
960 minute winter	H8002	1.007	H8105	9.1	1.167	0.052	0.3535	
960 minute winter	H8105	1.008	H8103	9.6	1.108	0.071	0.3004	
960 minute winter	H8103	1.009	H8104	9.6	1.038	0.033	0.1510	
960 minute winter	H8104	1.010	H8207	11.0	1.027	0.052	0.8617	
960 minute winter	H8207	1.011	H8206	12.0	1.104	0.050	0.3212	
960 minute winter	H8206	1.012	H8205	12.7	1.139	0.052	0.2367	
960 minute winter	H8205	1.013	H8204	13.2	1.279	0.050	0.1792	
960 minute winter	H8204	1.014	S8201	13.2	1.078	0.044	0.1941	
960 minute winter	S7202	2.000	S8208	22.8	1.713	0.048	0.3474	
960 minute winter	S8208	2.001	S8201	22.8	1.617	0.032	0.1878	
960 minute winter	S8201	1.015	S8203	36.9	2.215	0.056	0.3230	
960 minute winter	S8203	1.016	S7324	36.9	1.198	0.050	0.5261	881.2

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Results for 2 year 1440 minute summer. 2880 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	H6808	780	145.007	0.020	0.9	0.0287	0.0000	OK
1440 minute summer	H7801	780	144.767	0.026	2.7	0.0373	0.0000	OK
1440 minute summer	H7907	780	143.996	0.027	4.0	0.0393	0.0000	OK
1440 minute summer	H7908	780	140.815	0.029	4.6	0.0409	0.0000	OK
1440 minute summer	H7905	780	139.899	0.030	5.3	0.0434	0.0000	OK
1440 minute summer	H7906	780	138.418	0.034	6.3	0.0480	0.0000	OK
1440 minute summer	H8001	780	135.384	0.040	7.7	0.0579	0.0000	OK
1440 minute summer	H8002	780	133.173	0.046	9.0	0.0656	0.0000	OK
1440 minute summer	H8105	780	132.055	0.054	9.5	0.0778	0.0000	OK
1440 minute summer	H8103	780	131.462	0.046	9.5	0.0658	0.0000	OK
1440 minute summer	H8104	780	131.133	0.058	10.9	0.0828	0.0000	OK
1440 minute summer	H8207	750	130.241	0.057	11.9	0.0814	0.0000	OK
1440 minute summer	H8206	750	129.819	0.059	12.7	0.0849	0.0000	OK
1440 minute summer	H8205	750	129.509	0.059	13.3	0.0849	0.0000	OK
1440 minute summer	H8204	750	129.203	0.053	13.3	0.0764	0.0000	OK
1440 minute summer	S7202	750	130.073	0.073	24.8	0.1048	0.0000	OK
1440 minute summer	S8208	750	129.487	0.057	24.8	0.0819	0.0000	OK
1440 minute summer	S8201	750	128.888	0.078	39.3	0.1111	0.0000	OK
1440 minute summer	S8203	750	128.093	0.073	39.2	0.1046	0.0000	OK
1440 minute summer	S7324	750	127.870	0.070	39.2	0.0000	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	H6808	1.000	H7801	0.9	0.422	0.016	0.0468	
1440 minute summer	H7801	1.001	H7907	2.7	1.016	0.028	0.0623	
1440 minute summer	H7907	1.002	H7908	4.0	1.408	0.032	0.1562	
1440 minute summer	H7908	1.003	H7905	4.6	1.506	0.034	0.0419	
1440 minute summer	H7905	1.004	H7906	5.3	1.540	0.039	0.0763	
1440 minute summer	H7906	1.005	H8001	6.3	1.478	0.048	0.2080	
1440 minute summer	H8001	1.006	H8002	7.7	1.597	0.070	0.2310	
1440 minute summer	H8002	1.007	H8105	9.0	1.163	0.051	0.3500	
1440 minute summer	H8105	1.008	H8103	9.5	1.104	0.070	0.2974	
1440 minute summer	H8103	1.009	H8104	9.5	1.030	0.033	0.1497	
1440 minute summer	H8104	1.010	H8207	10.9	1.023	0.052	0.8551	
1440 minute summer	H8207	1.011	H8206	11.9	1.100	0.050	0.3199	
1440 minute summer	H8206	1.012	H8205	12.7	1.137	0.052	0.2370	
1440 minute summer	H8205	1.013	H8204	13.3	1.282	0.050	0.1799	
1440 minute summer	H8204	1.014	S8201	13.3	1.075	0.045	0.2005	
1440 minute summer	S7202	2.000	S8208	24.8	1.755	0.052	0.3691	
1440 minute summer	S8208	2.001	S8201	24.8	1.690	0.035	0.1974	
1440 minute summer	S8201	1.015	S8203	39.2	2.251	0.060	0.3379	
1440 minute summer	S8203	1.016	S7324	39.2	1.217	0.053	0.5497	956.8

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Results for 2 year 1440 minute winter. 2880 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 winter	H6808	780	145.005	0.018	0.7	0.0255	0.0000	OK
1440 minute winter	H7801	840	144.765	0.024	2.2	0.0339	0.0000	OK
1440 minute winter	H7907	780	143.993	0.025	3.3	0.0360	0.0000	OK
1440 minute winter	H7908	780	140.812	0.026	3.8	0.0373	0.0000	OK
1440 minute winter	H7905	780	139.897	0.028	4.4	0.0398	0.0000	OK
1440 minute winter	H7906	780	138.415	0.031	5.2	0.0438	0.0000	OK
1440 minute winter	H8001	780	135.380	0.037	6.4	0.0529	0.0000	OK
1440 minute winter	H8002	780	133.169	0.042	7.4	0.0597	0.0000	OK
1440 minute winter	H8105	780	132.050	0.049	7.8	0.0706	0.0000	OK
1440 minute winter	H8103	780	131.458	0.042	7.8	0.0601	0.0000	OK
1440 minute winter	H8104	780	131.127	0.052	8.9	0.0750	0.0000	OK
1440 minute winter	H8207	780	130.236	0.051	9.7	0.0736	0.0000	OK
1440 minute winter	H8206	780	129.813	0.053	10.2	0.0761	0.0000	OK
1440 minute winter	H8205	780	129.503	0.053	10.6	0.0757	0.0000	OK
1440 minute winter	H8204	780	129.198	0.048	10.6	0.0685	0.0000	OK
1440 minute winter	S7202	750	130.060	0.060	16.7	0.0861	0.0000	OK
1440 minute winter	S8208	750	129.478	0.047	16.7	0.0679	0.0000	OK
1440 minute winter	S8201	750	128.875	0.065	27.8	0.0933	0.0000	OK
1440 minute winter	S8203	750	128.081	0.061	27.8	0.0879	0.0000	OK
1440 minute winter	S7324	750	127.859	0.059	27.8	0.0000	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	H6808	1.000	H7801	0.7	0.392	0.013	0.0402	
1440 minute winter	H7801	1.001	H7907	2.2	0.962	0.023	0.0543	
1440 minute winter	H7907	1.002	H7908	3.3	1.331	0.026	0.1365	
1440 minute winter	H7908	1.003	H7905	3.8	1.420	0.028	0.0367	
1440 minute winter	H7905	1.004	H7906	4.4	1.461	0.033	0.0670	
1440 minute winter	H7906	1.005	H8001	5.2	1.395	0.040	0.1823	
1440 minute winter	H8001	1.006	H8002	6.4	1.514	0.058	0.2028	
1440 minute winter	H8002	1.007	H8105	7.4	1.101	0.042	0.3046	
1440 minute winter	H8105	1.008	H8103	7.8	1.043	0.058	0.2585	
1440 minute winter	H8103	1.009	H8104	7.8	0.973	0.027	0.1302	
1440 minute winter	H8104	1.010	H8207	8.9	0.964	0.042	0.7406	
1440 minute winter	H8207	1.011	H8206	9.7	1.040	0.040	0.2747	
1440 minute winter	H8206	1.012	H8205	10.2	1.072	0.042	0.2016	
1440 minute winter	H8205	1.013	H8204	10.6	1.201	0.040	0.1530	
1440 minute winter	H8204	1.014	S8201	10.6	1.022	0.035	0.1605	
1440 minute winter	S7202	2.000	S8208	16.7	1.565	0.035	0.2784	
1440 minute winter	S8208	2.001	S8201	16.7	1.474	0.024	0.1520	
1440 minute winter	S8201	1.015	S8203	27.8	2.054	0.042	0.2624	
1440 minute winter	S8203	1.016	S7324	27.8	1.105	0.038	0.4292	975.6

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Results for 2 year 2160 minute summer. 3600 minute analysis at 60 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
2160 minute summer	H6808	1200	145.005	0.018	0.7	0.0255	0.0000	OK
2160 minute summer	H7801	1200	144.765	0.024	2.2	0.0339	0.0000	OK
2160 minute summer	H7907	1200	143.993	0.025	3.2	0.0355	0.0000	OK
2160 minute summer	H7908	1200	140.812	0.026	3.7	0.0369	0.0000	OK
2160 minute summer	H7905	1200	139.896	0.027	4.2	0.0389	0.0000	OK
2160 minute summer	H7906	1140	138.414	0.030	5.0	0.0429	0.0000	OK
2160 minute summer	H8001	1140	135.379	0.036	6.1	0.0516	0.0000	OK
2160 minute summer	H8002	1140	133.168	0.041	7.2	0.0588	0.0000	OK
2160 minute summer	H8105	1140	132.050	0.049	7.6	0.0695	0.0000	OK
2160 minute summer	H8103	1140	131.457	0.041	7.5	0.0592	0.0000	OK
2160 minute summer	H8104	1140	131.127	0.052	8.7	0.0745	0.0000	OK
2160 minute summer	H8207	1140	130.235	0.051	9.5	0.0730	0.0000	OK
2160 minute summer	H8206	1140	129.813	0.053	10.1	0.0759	0.0000	OK
2160 minute summer	H8205	1140	129.503	0.053	10.5	0.0755	0.0000	OK
2160 minute summer	H8204	1140	129.198	0.048	10.5	0.0683	0.0000	OK
2160 minute summer	S7202	1140	130.062	0.062	17.7	0.0886	0.0000	OK
2160 minute summer	S8208	1140	129.479	0.049	17.7	0.0699	0.0000	OK
2160 minute summer	S8201	1140	128.877	0.067	29.1	0.0954	0.0000	OK
2160 minute summer	S8203	1140	128.083	0.063	29.1	0.0899	0.0000	OK
2160 minute summer	S7324	1140	127.860	0.060	29.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	H6808	1.000	H7801	0.7	0.392	0.013	0.0402	
2160 minute summer	H7801	1.001	H7907	2.2	0.961	0.023	0.0537	
2160 minute summer	H7907	1.002	H7908	3.2	1.315	0.025	0.1340	
2160 minute summer	H7908	1.003	H7905	3.7	1.418	0.027	0.0358	
2160 minute summer	H7905	1.004	H7906	4.2	1.446	0.031	0.0648	
2160 minute summer	H7906	1.005	H8001	5.0	1.381	0.038	0.1762	
2160 minute summer	H8001	1.006	H8002	6.1	1.491	0.055	0.1954	
2160 minute summer	H8002	1.007	H8105	7.2	1.090	0.041	0.2981	
2160 minute summer	H8105	1.008	H8103	7.5	1.034	0.056	0.2529	
2160 minute summer	H8103	1.009	H8104	7.5	0.958	0.026	0.1282	
2160 minute summer	H8104	1.010	H8207	8.7	0.960	0.041	0.7318	
2160 minute summer	H8207	1.011	H8206	9.5	1.032	0.040	0.2724	
2160 minute summer	H8206	1.012	H8205	10.1	1.070	0.042	0.2008	
2160 minute summer	H8205	1.013	H8204	10.5	1.199	0.040	0.1523	
2160 minute summer	H8204	1.014	S8201	10.5	1.006	0.035	0.1644	
2160 minute summer	S7202	2.000	S8208	17.7	1.591	0.037	0.2902	
2160 minute summer	S8208	2.001	S8201	17.7	1.524	0.025	0.1575	
2160 minute summer	S8201	1.015	S8203	29.1	2.079	0.044	0.2710	
2160 minute summer	S8203	1.016	S7324	29.1	1.119	0.040	0.4432	1048.4

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Results for 2 year 2160 minute winter. 3600 minute analysis at 60 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
2160 minute winter	H6808	1140	145.004	0.017	0.6	0.0237	0.0000	OK
2160 minute winter	H7801	1200	144.762	0.021	1.7	0.0300	0.0000	OK
2160 minute winter	H7907	1200	143.990	0.022	2.5	0.0315	0.0000	OK
2160 minute winter	H7908	1200	140.809	0.023	2.9	0.0328	0.0000	OK
2160 minute winter	H7905	1200	139.893	0.024	3.3	0.0348	0.0000	OK
2160 minute winter	H7906	1200	138.411	0.027	3.9	0.0382	0.0000	OK
2160 minute winter	H8001	1200	135.375	0.032	4.8	0.0460	0.0000	OK
2160 minute winter	H8002	1200	133.163	0.036	5.5	0.0519	0.0000	OK
2160 minute winter	H8105	1200	132.044	0.043	5.8	0.0611	0.0000	OK
2160 minute winter	H8103	1200	131.453	0.036	5.8	0.0522	0.0000	OK
2160 minute winter	H8104	1200	131.121	0.046	6.6	0.0652	0.0000	OK
2160 minute winter	H8207	1200	130.228	0.044	7.1	0.0634	0.0000	OK
2160 minute winter	H8206	1200	129.806	0.046	7.5	0.0656	0.0000	OK
2160 minute winter	H8205	1200	129.496	0.046	7.8	0.0652	0.0000	OK
2160 minute winter	H8204	1200	129.192	0.042	7.8	0.0595	0.0000	OK
2160 minute winter	S7202	1140	130.052	0.052	12.2	0.0739	0.0000	OK
2160 minute winter	S8208	1140	129.471	0.041	12.2	0.0586	0.0000	OK
2160 minute winter	S8201	1140	128.866	0.056	20.6	0.0804	0.0000	OK
2160 minute winter	S8203	1140	128.073	0.053	20.6	0.0757	0.0000	OK
2160 minute winter	S7324	1140	127.851	0.051	20.6	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	H6808	1.000	H7801	0.6	0.382	0.011	0.0345	
2160 minute winter	H7801	1.001	H7907	1.7	0.887	0.018	0.0450	
2160 minute winter	H7907	1.002	H7908	2.5	1.237	0.020	0.1127	
2160 minute winter	H7908	1.003	H7905	2.9	1.319	0.021	0.0302	
2160 minute winter	H7905	1.004	H7906	3.3	1.339	0.024	0.0549	
2160 minute winter	H7906	1.005	H8001	3.9	1.282	0.030	0.1491	
2160 minute winter	H8001	1.006	H8002	4.8	1.391	0.044	0.1657	
2160 minute winter	H8002	1.007	H8105	5.5	1.010	0.031	0.2474	
2160 minute winter	H8105	1.008	H8103	5.8	0.957	0.043	0.2099	
2160 minute winter	H8103	1.009	H8104	5.8	0.894	0.020	0.1060	
2160 minute winter	H8104	1.010	H8207	6.6	0.887	0.031	0.5989	
2160 minute winter	H8207	1.011	H8206	7.1	0.950	0.030	0.2208	
2160 minute winter	H8206	1.012	H8205	7.5	0.983	0.031	0.1621	
2160 minute winter	H8205	1.013	H8204	7.8	1.098	0.030	0.1233	
2160 minute winter	H8204	1.014	S8201	7.8	0.940	0.026	0.1303	
2160 minute winter	S7202	2.000	S8208	12.2	1.428	0.025	0.2230	
2160 minute winter	S8208	2.001	S8201	12.2	1.340	0.017	0.1221	
2160 minute winter	S8201	1.015	S8203	20.6	1.890	0.031	0.2110	
2160 minute winter	S8203	1.016	S7324	20.6	1.012	0.028	0.3466	1068.3

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Results for 30 year +40% CC 60 minute summer. 1500 minute analysis at 1 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
60 minute summer	H6808	33	145.047	0.060	8.6	0.0854	0.0000	OK
60 minute summer	H7801	33	144.819	0.078	24.5	0.1111	0.0000	OK
60 minute summer	H7907	33	144.068	0.100	51.5	0.1427	0.0000	OK
60 minute summer	H7908	33	140.902	0.116	63.5	0.1665	0.0000	OK
60 minute summer	H7905	33	139.994	0.125	75.2	0.1789	0.0000	OK
60 minute summer	H7906	33	138.520	0.136	89.8	0.1948	0.0000	OK
60 minute summer	H8001	33	135.539	0.196	113.1	0.2799	0.0000	OK
60 minute summer	H8002	34	133.347	0.220	137.8	0.3141	0.0000	OK
60 minute summer	H8105	34	132.525	0.523	150.8	0.7491	0.0000	SURCHARGED
60 minute summer	H8103	36	131.672	0.256	150.6	0.3665	0.0000	OK
60 minute summer	H8104	36	131.587	0.512	191.7	0.7326	0.0000	SURCHARGED
60 minute summer	H8207	36	130.909	0.725	213.1	1.0368	0.0000	SURCHARGED
60 minute summer	H8206	36	130.536	0.776	219.1	1.1109	0.0000	SURCHARGED
60 minute summer	H8205	36	130.195	0.745	228.8	1.0655	0.0000	SURCHARGED
60 minute summer	H8204	36	129.864	0.714	225.4	1.0223	0.0000	SURCHARGED
60 minute summer	S7202	39	130.491	0.491	404.1	0.7032	0.0000	SURCHARGED
60 minute summer	S8208	37	129.931	0.501	406.8	0.7172	0.0000	SURCHARGED
60 minute summer	S8201	37	129.578	0.767	629.3	1.0983	0.0000	SURCHARGED
60 minute summer	S8203	37	128.404	0.384	629.7	0.5493	0.0000	OK
60 minute summer	S7324	37	128.113	0.313	629.8	0.0000	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	H6808	1.000	H7801	8.6	0.838	0.156	0.2251	
60 minute summer	H7801	1.001	H7907	24.5	1.685	0.258	0.3414	
60 minute summer	H7907	1.002	H7908	51.4	2.731	0.409	1.0373	
60 minute summer	H7908	1.003	H7905	63.5	2.929	0.470	0.2978	
60 minute summer	H7905	1.004	H7906	75.2	3.147	0.556	0.5309	
60 minute summer	H7906	1.005	H8001	89.7	2.858	0.687	1.5078	
60 minute summer	H8001	1.006	H8002	112.4	3.133	1.019	1.8365	
60 minute summer	H8002	1.007	H8105	136.6	2.175	0.778	2.8453	
60 minute summer	H8105	1.008	H8103	150.6	2.138	1.116	2.4096	
60 minute summer	H8103	1.009	H8104	150.1	1.869	0.517	1.5467	
60 minute summer	H8104	1.010	H8207	182.1	1.954	0.865	8.8835	
60 minute summer	H8207	1.011	H8206	197.2	1.976	0.822	3.2609	
60 minute summer	H8206	1.012	H8205	213.6	2.051	0.883	2.3452	
60 minute summer	H8205	1.013	H8204	225.4	2.207	0.856	1.9159	
60 minute summer	H8204	1.014	S8201	225.2	2.042	0.756	1.7007	
60 minute summer	S7202	2.000	S8208	406.8	3.144	0.848	4.1206	
60 minute summer	S8208	2.001	S8201	412.8	3.245	0.588	2.0946	
60 minute summer	S8201	1.015	S8203	629.7	3.999	0.961	2.9303	
60 minute summer	S8203	1.016	S7324	629.8	2.393	0.857	4.4606	1183.1

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Results for 30 year +40% CC 60 minute winter. 1500 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
60 minute winter	H6808	33	145.038	0.051	6.3	0.0731	0.0000	OK
60 minute winter	H7801	33	144.807	0.066	17.9	0.0944	0.0000	OK
60 minute winter	H7907	33	144.052	0.084	37.5	0.1200	0.0000	OK
60 minute winter	H7908	33	140.882	0.096	46.2	0.1369	0.0000	OK
60 minute winter	H7905	33	139.972	0.103	54.7	0.1468	0.0000	OK
60 minute winter	H7906	33	138.496	0.112	65.3	0.1600	0.0000	OK
60 minute winter	H8001	33	135.493	0.150	82.2	0.2151	0.0000	OK
60 minute winter	H8002	33	133.288	0.161	100.4	0.2299	0.0000	OK
60 minute winter	H8105	34	132.224	0.223	110.9	0.3195	0.0000	OK
60 minute winter	H8103	34	131.595	0.179	110.9	0.2555	0.0000	OK
60 minute winter	H8104	34	131.303	0.228	142.0	0.3269	0.0000	OK
60 minute winter	H8207	34	130.434	0.249	164.1	0.3570	0.0000	OK
60 minute winter	H8206	34	130.037	0.277	179.6	0.3964	0.0000	OK
60 minute winter	H8205	34	129.728	0.278	190.3	0.3985	0.0000	OK
60 minute winter	H8204	34	129.423	0.273	190.2	0.3905	0.0000	OK
60 minute winter	S7202	40	130.353	0.352	379.2	0.5044	0.0000	OK
60 minute winter	S8208	39	129.724	0.294	379.0	0.4211	0.0000	OK
60 minute winter	S8201	38	129.250	0.440	563.9	0.6289	0.0000	OK
60 minute winter	S8203	37	128.368	0.348	563.3	0.4977	0.0000	OK
60 minute winter	S7324	37	128.089	0.288	563.1	0.0000	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	H6808	1.000	H7801	6.3	0.769	0.114	0.1802	
60 minute winter	H7801	1.001	H7907	17.9	1.550	0.189	0.2716	
60 minute winter	H7907	1.002	H7908	37.5	2.540	0.298	0.8134	
60 minute winter	H7908	1.003	H7905	46.2	2.742	0.342	0.2313	
60 minute winter	H7905	1.004	H7906	54.7	2.932	0.404	0.4145	
60 minute winter	H7906	1.005	H8001	65.2	2.718	0.500	1.1684	
60 minute winter	H8001	1.006	H8002	82.0	2.988	0.744	1.3189	
60 minute winter	H8002	1.007	H8105	100.2	2.110	0.570	2.1426	
60 minute winter	H8105	1.008	H8103	110.9	2.066	0.822	1.8602	
60 minute winter	H8103	1.009	H8104	111.0	1.819	0.382	0.9905	
60 minute winter	H8104	1.010	H8207	142.2	1.919	0.675	5.9654	
60 minute winter	H8207	1.011	H8206	164.1	1.987	0.684	2.4410	
60 minute winter	H8206	1.012	H8205	179.5	2.053	0.742	1.8608	
60 minute winter	H8205	1.013	H8204	190.2	2.196	0.722	1.5083	
60 minute winter	H8204	1.014	S8201	190.2	1.843	0.639	1.5127	
60 minute winter	S7202	2.000	S8208	379.0	3.125	0.790	3.1542	
60 minute winter	S8208	2.001	S8201	379.1	3.123	0.540	1.7658	
60 minute winter	S8201	1.015	S8203	563.3	3.907	0.860	2.7969	
60 minute winter	S8203	1.016	S7324	563.1	2.350	0.766	4.0718	1151.4

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Results for 30 year +40% CC 120 minute summer. 1560 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 summer	H6808	64	145.037	0.050	6.0	0.0713	0.0000	OK
120 minute summer	H7801	64	144.806	0.065	17.3	0.0927	0.0000	OK
120 minute summer	H7907	64	144.049	0.081	35.3	0.1160	0.0000	OK
120 minute summer	H7908	64	140.878	0.092	43.2	0.1317	0.0000	OK
120 minute summer	H7905	64	139.967	0.098	51.0	0.1408	0.0000	OK
120 minute summer	H7906	64	138.491	0.107	60.8	0.1537	0.0000	OK
120 minute summer	H8001	64	135.486	0.143	76.6	0.2047	0.0000	OK
120 minute summer	H8002	64	133.281	0.154	93.4	0.2202	0.0000	OK
120 minute summer	H8105	64	132.211	0.210	103.0	0.3005	0.0000	OK
120 minute summer	H8103	64	131.586	0.170	102.7	0.2426	0.0000	OK
120 minute summer	H8104	64	131.292	0.216	131.1	0.3098	0.0000	OK
120 minute summer	H8207	64	130.418	0.234	150.9	0.3341	0.0000	OK
120 minute summer	H8206	64	130.017	0.257	164.4	0.3679	0.0000	OK
120 minute summer	H8205	64	129.708	0.258	173.8	0.3697	0.0000	OK
120 minute summer	H8204	64	129.405	0.255	173.3	0.3654	0.0000	OK
120 minute summer	S7202	70	130.324	0.324	342.5	0.4634	0.0000	OK
120 minute summer	S8208	70	129.698	0.268	342.4	0.3836	0.0000	OK
120 minute summer	S8201	66	129.187	0.377	517.5	0.5401	0.0000	OK
120 minute summer	S8203	66	128.345	0.325	516.9	0.4654	0.0000	OK
120 minute summer	S7324	66	128.072	0.272	516.4	0.0000	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	H6808	1.000	H7801	6.0	0.754	0.109	0.1748	
120 minute summer	H7801	1.001	H7907	17.3	1.687	0.182	0.2617	
120 minute summer	H7907	1.002	H7908	35.2	2.505	0.280	0.7746	
120 minute summer	H7908	1.003	H7905	43.2	2.704	0.320	0.2193	
120 minute summer	H7905	1.004	H7906	51.0	2.883	0.377	0.3930	
120 minute summer	H7906	1.005	H8001	60.8	2.681	0.466	1.1057	
120 minute summer	H8001	1.006	H8002	76.5	2.947	0.694	1.2471	
120 minute summer	H8002	1.007	H8105	93.3	2.088	0.531	2.0165	
120 minute summer	H8105	1.008	H8103	102.7	2.039	0.761	1.7449	
120 minute summer	H8103	1.009	H8104	102.6	1.800	0.353	0.9274	
120 minute summer	H8104	1.010	H8207	130.7	1.894	0.621	5.5571	
120 minute summer	H8207	1.011	H8206	150.1	1.969	0.626	2.2567	
120 minute summer	H8206	1.012	H8205	163.9	2.033	0.677	1.7170	
120 minute summer	H8205	1.013	H8204	173.3	2.165	0.658	1.3974	
120 minute summer	H8204	1.014	S8201	173.1	1.851	0.581	1.4590	
120 minute summer	S7202	2.000	S8208	342.4	3.100	0.714	2.8679	
120 minute summer	S8208	2.001	S8201	342.3	3.029	0.487	1.5783	
120 minute summer	S8201	1.015	S8203	516.9	3.896	0.789	2.5638	
120 minute summer	S8203	1.016	S7324	516.4	2.313	0.703	3.8010	1461.5

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Results for 30 year +40% CC 120 minute winter. 1560 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	H6808	68	145.030	0.043	4.4	0.0612	0.0000	OK
120 minute winter	H7801	64	144.797	0.056	12.9	0.0798	0.0000	OK
120 minute winter	H7907	64	144.036	0.068	25.4	0.0978	0.0000	OK
120 minute winter	H7908	64	140.862	0.076	31.1	0.1092	0.0000	OK
120 minute winter	H7905	64	139.951	0.081	36.6	0.1166	0.0000	OK
120 minute winter	H7906	64	138.473	0.089	43.7	0.1277	0.0000	OK
120 minute winter	H8001	64	135.458	0.115	54.9	0.1647	0.0000	OK
120 minute winter	H8002	64	133.254	0.127	66.6	0.1814	0.0000	OK
120 minute winter	H8105	64	132.167	0.166	73.2	0.2370	0.0000	OK
120 minute winter	H8103	64	131.553	0.137	73.0	0.1954	0.0000	OK
120 minute winter	H8104	64	131.250	0.175	92.6	0.2502	0.0000	OK
120 minute winter	H8207	66	130.369	0.185	106.2	0.2643	0.0000	OK
120 minute winter	H8206	66	129.961	0.201	115.9	0.2873	0.0000	OK
120 minute winter	H8205	66	129.651	0.201	122.7	0.2882	0.0000	OK
120 minute winter	H8204	66	129.346	0.196	122.8	0.2803	0.0000	OK
120 minute winter	S7202	70	130.276	0.276	275.6	0.3955	0.0000	OK
120 minute winter	S8208	70	129.657	0.227	275.5	0.3250	0.0000	OK
120 minute winter	S8201	68	129.115	0.305	407.6	0.4361	0.0000	OK
120 minute winter	S8203	68	128.295	0.275	407.6	0.3930	0.0000	OK
120 minute winter	S7324	68	128.035	0.235	407.5	0.0000	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	H6808	1.000	H7801	4.4	0.689	0.080	0.1412	
120 minute winter	H7801	1.001	H7907	12.8	1.611	0.136	0.2091	
120 minute winter	H7907	1.002	H7908	25.4	2.309	0.202	0.6063	
120 minute winter	H7908	1.003	H7905	31.1	2.505	0.230	0.1703	
120 minute winter	H7905	1.004	H7906	36.6	2.655	0.271	0.3067	
120 minute winter	H7906	1.005	H8001	43.7	2.493	0.335	0.8556	
120 minute winter	H8001	1.006	H8002	54.7	2.736	0.496	0.9609	
120 minute winter	H8002	1.007	H8105	66.5	1.953	0.379	1.5435	
120 minute winter	H8105	1.008	H8103	73.0	1.905	0.541	1.3299	
120 minute winter	H8103	1.009	H8104	73.0	1.690	0.251	0.7031	
120 minute winter	H8104	1.010	H8207	92.5	1.773	0.439	4.2020	
120 minute winter	H8207	1.011	H8206	106.3	1.864	0.443	1.6861	
120 minute winter	H8206	1.012	H8205	116.0	1.929	0.480	1.2791	
120 minute winter	H8205	1.013	H8204	122.8	2.076	0.466	1.0290	
120 minute winter	H8204	1.014	S8201	122.8	1.778	0.412	1.1842	
120 minute winter	S7202	2.000	S8208	275.5	3.021	0.574	2.3701	
120 minute winter	S8208	2.001	S8201	275.4	2.871	0.392	1.2816	
120 minute winter	S8201	1.015	S8203	407.6	3.779	0.622	2.0887	
120 minute winter	S8203	1.016	S7324	407.5	2.203	0.554	3.1526	1433.3

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Results for 30 year +40% CC 180 minute summer. 1620 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	H6808	96	145.033	0.046	5.0	0.0652	0.0000	OK
180 minute summer	H7801	164	144.803	0.061	14.7	0.0880	0.0000	OK
180 minute summer	H7907	96	144.041	0.072	28.5	0.1037	0.0000	OK
180 minute summer	H7908	96	140.867	0.081	34.6	0.1160	0.0000	OK
180 minute summer	H7905	96	139.955	0.086	40.7	0.1237	0.0000	OK
180 minute summer	H7906	96	138.478	0.094	48.5	0.1351	0.0000	OK
180 minute summer	H8001	96	135.466	0.123	60.8	0.1757	0.0000	OK
180 minute summer	H8002	96	133.261	0.134	73.7	0.1921	0.0000	OK
180 minute summer	H8105	96	132.178	0.177	80.9	0.2531	0.0000	OK
180 minute summer	H8103	96	131.561	0.145	80.8	0.2080	0.0000	OK
180 minute summer	H8104	96	131.260	0.185	102.0	0.2652	0.0000	OK
180 minute summer	H8207	96	130.380	0.196	116.9	0.2809	0.0000	OK
180 minute summer	H8206	96	129.974	0.214	127.4	0.3059	0.0000	OK
180 minute summer	H8205	96	129.664	0.214	134.7	0.3068	0.0000	OK
180 minute summer	H8204	96	129.360	0.210	134.7	0.3001	0.0000	OK
180 minute summer	S7202	100	130.283	0.283	285.6	0.4055	0.0000	OK
180 minute summer	S8208	100	129.663	0.233	285.4	0.3334	0.0000	OK
180 minute summer	S8201	96	129.125	0.315	425.8	0.4514	0.0000	OK
180 minute summer	S8203	96	128.303	0.283	425.0	0.4045	0.0000	OK
180 minute summer	S7324	100	128.041	0.241	424.9	0.0000	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	H6808	1.000	H7801	5.0	0.710	0.091	0.1554	
180 minute summer	H7801	1.001	H7907	14.7	1.709	0.155	0.2280	
180 minute summer	H7907	1.002	H7908	28.4	2.380	0.226	0.6581	
180 minute summer	H7908	1.003	H7905	34.6	2.573	0.256	0.1847	
180 minute summer	H7905	1.004	H7906	40.7	2.729	0.301	0.3315	
180 minute summer	H7906	1.005	H8001	48.4	2.555	0.371	0.9260	
180 minute summer	H8001	1.006	H8002	60.7	2.804	0.551	1.0410	
180 minute summer	H8002	1.007	H8105	73.7	1.999	0.419	1.6689	
180 minute summer	H8105	1.008	H8103	80.8	1.946	0.598	1.4385	
180 minute summer	H8103	1.009	H8104	80.7	1.725	0.278	0.7606	
180 minute summer	H8104	1.010	H8207	101.9	1.810	0.484	4.5353	
180 minute summer	H8207	1.011	H8206	116.8	1.896	0.487	1.8216	
180 minute summer	H8206	1.012	H8205	127.3	1.959	0.526	1.3819	
180 minute summer	H8205	1.013	H8204	134.7	2.097	0.511	1.1159	
180 minute summer	H8204	1.014	S8201	134.5	1.778	0.452	1.2516	
180 minute summer	S7202	2.000	S8208	285.4	3.035	0.595	2.4438	
180 minute summer	S8208	2.001	S8201	285.2	2.880	0.406	1.3300	
180 minute summer	S8201	1.015	S8203	425.0	3.804	0.649	2.1653	
180 minute summer	S8203	1.016	S7324	424.9	2.223	0.578	3.2561	1642.3

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Results for 30 year +40% CC 180 minute winter. 1620 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	H6808	164	145.028	0.041	4.1	0.0592	0.0000	OK
180 minute winter	H7801	168	144.799	0.058	13.0	0.0824	0.0000	OK
180 minute winter	H7907	96	144.031	0.063	21.6	0.0898	0.0000	OK
180 minute winter	H7908	96	140.855	0.069	26.0	0.0991	0.0000	OK
180 minute winter	H7905	96	139.943	0.074	30.5	0.1054	0.0000	OK
180 minute winter	H7906	96	138.465	0.081	36.2	0.1153	0.0000	OK
180 minute winter	H8001	96	135.446	0.103	45.2	0.1468	0.0000	OK
180 minute winter	H8002	96	133.241	0.114	54.4	0.1624	0.0000	OK
180 minute winter	H8105	96	132.146	0.145	59.4	0.2080	0.0000	OK
180 minute winter	H8103	96	131.537	0.121	59.2	0.1726	0.0000	OK
180 minute winter	H8104	96	131.229	0.154	73.8	0.2201	0.0000	OK
180 minute winter	H8207	96	130.344	0.160	84.0	0.2289	0.0000	OK
180 minute winter	H8206	96	129.932	0.172	91.2	0.2466	0.0000	OK
180 minute winter	H8205	96	129.623	0.173	96.2	0.2470	0.0000	OK
180 minute winter	H8204	96	129.313	0.163	96.1	0.2331	0.0000	OK
180 minute winter	S7202	100	130.235	0.235	214.1	0.3356	0.0000	OK
180 minute winter	S8208	100	129.621	0.191	214.0	0.2732	0.0000	OK
180 minute winter	S8201	100	129.066	0.256	320.1	0.3658	0.0000	OK
180 minute winter	S8203	100	128.255	0.235	320.0	0.3357	0.0000	OK
180 minute winter	S7324	100	128.004	0.204	320.0	0.0000	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	H6808	1.000	H7801	4.1	0.665	0.074	0.1424	
180 minute winter	H7801	1.001	H7907	13.0	1.647	0.137	0.1904	
180 minute winter	H7907	1.002	H7908	21.5	2.226	0.171	0.5337	
180 minute winter	H7908	1.003	H7905	26.0	2.402	0.192	0.1486	
180 minute winter	H7905	1.004	H7906	30.5	2.535	0.225	0.2672	
180 minute winter	H7906	1.005	H8001	36.1	2.382	0.277	0.7412	
180 minute winter	H8001	1.006	H8002	45.1	2.610	0.409	0.8308	
180 minute winter	H8002	1.007	H8105	54.4	1.869	0.309	1.3187	
180 minute winter	H8105	1.008	H8103	59.2	1.813	0.439	1.1327	
180 minute winter	H8103	1.009	H8104	59.2	1.627	0.204	0.5935	
180 minute winter	H8104	1.010	H8207	73.7	1.688	0.350	3.5166	
180 minute winter	H8207	1.011	H8206	83.9	1.781	0.350	1.3923	
180 minute winter	H8206	1.012	H8205	91.1	1.842	0.377	1.0513	
180 minute winter	H8205	1.013	H8204	96.1	2.016	0.365	0.8283	
180 minute winter	H8204	1.014	S8201	96.1	1.719	0.323	0.9689	
180 minute winter	S7202	2.000	S8208	214.0	2.903	0.446	1.9179	
180 minute winter	S8208	2.001	S8201	213.9	2.734	0.305	1.0372	
180 minute winter	S8201	1.015	S8203	320.0	3.627	0.489	1.7096	
180 minute winter	S8203	1.016	S7324	320.0	2.088	0.435	2.6141	1614.7

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Results for 30 year +40% CC 240 minute summer. 1680 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	H6808	188	145.031	0.044	4.6	0.0625	0.0000	OK
240 minute summer	H7801	192	144.802	0.061	14.6	0.0877	0.0000	OK
240 minute summer	H7907	124	144.036	0.068	25.0	0.0968	0.0000	OK
240 minute summer	H7908	124	140.861	0.075	30.2	0.1074	0.0000	OK
240 minute summer	H7905	124	139.949	0.080	35.3	0.1141	0.0000	OK
240 minute summer	H7906	124	138.471	0.087	42.0	0.1248	0.0000	OK
240 minute summer	H8001	124	135.455	0.112	52.7	0.1603	0.0000	OK
240 minute summer	H8002	124	133.250	0.123	63.5	0.1766	0.0000	OK
240 minute summer	H8105	124	132.161	0.160	69.4	0.2286	0.0000	OK
240 minute summer	H8103	124	131.548	0.132	68.9	0.1887	0.0000	OK
240 minute summer	H8104	124	131.243	0.168	86.7	0.2408	0.0000	OK
240 minute summer	H8207	124	130.360	0.176	98.9	0.2520	0.0000	OK
240 minute summer	H8206	124	129.951	0.191	107.2	0.2727	0.0000	OK
240 minute summer	H8205	124	129.641	0.191	113.1	0.2731	0.0000	OK
240 minute summer	H8204	128	129.333	0.183	113.0	0.2622	0.0000	OK
240 minute summer	S7202	128	130.255	0.255	243.5	0.3643	0.0000	OK
240 minute summer	S8208	132	129.638	0.208	243.5	0.2980	0.0000	OK
240 minute summer	S8201	128	129.093	0.283	368.7	0.4043	0.0000	OK
240 minute summer	S8203	128	128.277	0.257	368.5	0.3676	0.0000	OK
240 minute summer	S7324	128	128.021	0.221	368.3	0.0000	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	H6808	1.000	H7801	4.6	0.688	0.083	0.1548	
240 minute summer	H7801	1.001	H7907	14.6	1.708	0.154	0.2087	
240 minute summer	H7907	1.002	H7908	24.9	2.306	0.198	0.5949	
240 minute summer	H7908	1.003	H7905	30.1	2.490	0.223	0.1659	
240 minute summer	H7905	1.004	H7906	35.2	2.630	0.261	0.2977	
240 minute summer	H7906	1.005	H8001	41.9	2.470	0.321	0.8284	
240 minute summer	H8001	1.006	H8002	52.3	2.706	0.474	0.9290	
240 minute summer	H8002	1.007	H8105	63.3	1.938	0.360	1.4811	
240 minute summer	H8105	1.008	H8103	68.9	1.878	0.510	1.2721	
240 minute summer	H8103	1.009	H8104	68.8	1.677	0.237	0.6695	
240 minute summer	H8104	1.010	H8207	86.2	1.748	0.409	3.9751	
240 minute summer	H8207	1.011	H8206	98.2	1.840	0.409	1.5822	
240 minute summer	H8206	1.012	H8205	106.9	1.902	0.442	1.1966	
240 minute summer	H8205	1.013	H8204	113.0	2.062	0.429	0.9530	
240 minute summer	H8204	1.014	S8201	113.1	1.716	0.380	1.0990	
240 minute summer	S7202	2.000	S8208	243.5	2.966	0.508	2.1349	
240 minute summer	S8208	2.001	S8201	243.5	2.809	0.347	1.1654	
240 minute summer	S8201	1.015	S8203	368.5	3.716	0.563	1.9206	
240 minute summer	S8203	1.016	S7324	368.3	2.154	0.501	2.9146	1783.8

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Results for 30 year +40% CC 240 minute winter. 1680 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 winter	H6808	180	145.028	0.041	4.0	0.0585	0.0000	OK
240 minute winter	H7801	200	144.798	0.057	12.8	0.0818	0.0000	OK
240 minute winter	H7907	132	144.028	0.060	19.5	0.0854	0.0000	OK
240 minute winter	H7908	132	140.851	0.065	23.2	0.0931	0.0000	OK
240 minute winter	H7905	132	139.938	0.069	27.0	0.0986	0.0000	OK
240 minute winter	H7906	132	138.460	0.076	32.1	0.1083	0.0000	OK
240 minute winter	H8001	132	135.439	0.096	39.9	0.1369	0.0000	OK
240 minute winter	H8002	132	133.233	0.106	47.8	0.1517	0.0000	OK
240 minute winter	H8105	132	132.135	0.134	51.8	0.1919	0.0000	OK
240 minute winter	H8103	132	131.528	0.112	51.8	0.1597	0.0000	OK
240 minute winter	H8104	128	131.217	0.142	63.5	0.2027	0.0000	OK
240 minute winter	H8207	128	130.330	0.146	71.8	0.2090	0.0000	OK
240 minute winter	H8206	128	129.917	0.156	77.7	0.2239	0.0000	OK
240 minute winter	H8205	128	129.607	0.157	81.8	0.2241	0.0000	OK
240 minute winter	H8204	128	129.296	0.146	81.8	0.2083	0.0000	OK
240 minute winter	S7202	132	130.208	0.208	175.9	0.2977	0.0000	OK
240 minute winter	S8208	132	129.598	0.168	175.9	0.2407	0.0000	OK
240 minute winter	S8201	128	129.036	0.226	266.4	0.3236	0.0000	OK
240 minute winter	S8203	128	128.229	0.209	266.3	0.2995	0.0000	OK
240 minute winter	S7324	128	127.984	0.184	266.2	0.0000	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	H6808	1.000	H7801	4.0	0.649	0.073	0.1406	
240 minute winter	H7801	1.001	H7907	12.8	1.644	0.135	0.1835	
240 minute winter	H7907	1.002	H7908	19.5	2.177	0.155	0.4931	
240 minute winter	H7908	1.003	H7905	23.2	2.341	0.171	0.1359	
240 minute winter	H7905	1.004	H7906	27.0	2.453	0.199	0.2444	
240 minute winter	H7906	1.005	H8001	32.0	2.313	0.246	0.6777	
240 minute winter	H8001	1.006	H8002	39.9	2.530	0.362	0.7587	
240 minute winter	H8002	1.007	H8105	47.8	1.818	0.272	1.1936	
240 minute winter	H8105	1.008	H8103	51.8	1.755	0.383	1.0228	
240 minute winter	H8103	1.009	H8104	51.8	1.586	0.178	0.5319	
240 minute winter	H8104	1.010	H8207	63.5	1.633	0.302	3.1314	
240 minute winter	H8207	1.011	H8206	71.8	1.726	0.299	1.2297	
240 minute winter	H8206	1.012	H8205	77.7	1.784	0.321	0.9258	
240 minute winter	H8205	1.013	H8204	81.8	1.969	0.310	0.7215	
240 minute winter	H8204	1.014	S8201	81.8	1.644	0.275	0.8400	
240 minute winter	S7202	2.000	S8208	175.9	2.803	0.367	1.6337	
240 minute winter	S8208	2.001	S8201	175.9	2.637	0.250	0.8839	
240 minute winter	S8201	1.015	S8203	266.3	3.506	0.407	1.4720	
240 minute winter	S8203	1.016	S7324	266.2	2.000	0.362	2.2698	1758.0

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Results for 30 year +40% CC 360 minute summer. 1800 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	H6808	248	145.030	0.043	4.4	0.0612	0.0000	OK
360 minute summer	H7801	256	144.801	0.060	14.1	0.0861	0.0000	OK
360 minute summer	H7907	184	144.030	0.062	21.3	0.0892	0.0000	OK
360 minute summer	H7908	184	140.854	0.068	25.5	0.0979	0.0000	OK
360 minute summer	H7905	184	139.942	0.073	29.7	0.1039	0.0000	OK
360 minute summer	H7906	184	138.463	0.079	35.2	0.1136	0.0000	OK
360 minute summer	H8001	184	135.444	0.101	44.0	0.1441	0.0000	OK
360 minute summer	H8002	184	133.238	0.111	52.6	0.1593	0.0000	OK
360 minute summer	H8105	184	132.143	0.141	57.0	0.2025	0.0000	OK
360 minute summer	H8103	184	131.533	0.117	56.5	0.1680	0.0000	OK
360 minute summer	H8104	184	131.224	0.149	70.0	0.2135	0.0000	OK
360 minute summer	H8207	184	130.338	0.154	79.1	0.2204	0.0000	OK
360 minute summer	H8206	184	129.925	0.165	85.3	0.2366	0.0000	OK
360 minute summer	H8205	184	129.616	0.165	89.8	0.2368	0.0000	OK
360 minute summer	H8204	184	129.304	0.154	89.5	0.2210	0.0000	OK
360 minute summer	S7202	192	130.217	0.217	189.0	0.3108	0.0000	OK
360 minute summer	S8208	192	129.606	0.176	188.9	0.2519	0.0000	OK
360 minute summer	S8201	192	129.046	0.236	283.7	0.3372	0.0000	OK
360 minute summer	S8203	192	128.238	0.218	283.7	0.3114	0.0000	OK
360 minute summer	S7324	192	127.991	0.191	283.8	0.0000	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	H6808	1.000	H7801	4.4	0.660	0.080	0.1507	
360 minute summer	H7801	1.001	H7907	14.1	1.689	0.149	0.1964	
360 minute summer	H7907	1.002	H7908	21.2	2.219	0.169	0.5267	
360 minute summer	H7908	1.003	H7905	25.4	2.392	0.188	0.1459	
360 minute summer	H7905	1.004	H7906	29.6	2.516	0.219	0.2619	
360 minute summer	H7906	1.005	H8001	35.1	2.368	0.269	0.7248	
360 minute summer	H8001	1.006	H8002	43.7	2.588	0.396	0.8111	
360 minute summer	H8002	1.007	H8105	52.4	1.860	0.298	1.2779	
360 minute summer	H8105	1.008	H8103	56.5	1.791	0.419	1.0939	
360 minute summer	H8103	1.009	H8104	56.4	1.609	0.194	0.5705	
360 minute summer	H8104	1.010	H8207	69.5	1.667	0.330	3.3599	
360 minute summer	H8207	1.011	H8206	78.5	1.756	0.327	1.3217	
360 minute summer	H8206	1.012	H8205	85.0	1.815	0.351	0.9955	
360 minute summer	H8205	1.013	H8204	89.5	1.998	0.340	0.7781	
360 minute summer	H8204	1.014	S8201	89.3	1.693	0.300	0.8880	
360 minute summer	S7202	2.000	S8208	188.9	2.840	0.394	1.7315	
360 minute summer	S8208	2.001	S8201	188.8	2.673	0.269	0.9349	
360 minute summer	S8201	1.015	S8203	283.7	3.548	0.433	1.5493	
360 minute summer	S8203	1.016	S7324	283.8	2.031	0.386	2.3830	1987.6

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Results for 30 year +40% CC 360 minute winter. 1800 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 winter	H6808	240	145.029	0.042	4.2	0.0598	0.0000	OK
360 minute winter	H7801	240	144.799	0.058	13.1	0.0823	0.0000	OK
360 minute winter	H7907	216	144.027	0.059	18.8	0.0838	0.0000	OK
360 minute winter	H7908	216	140.849	0.063	21.8	0.0902	0.0000	OK
360 minute winter	H7905	216	139.935	0.066	25.0	0.0947	0.0000	OK
360 minute winter	H7906	216	138.456	0.072	29.3	0.1034	0.0000	OK
360 minute winter	H8001	216	135.433	0.090	36.1	0.1294	0.0000	OK
360 minute winter	H8002	208	133.227	0.099	42.4	0.1424	0.0000	OK
360 minute winter	H8105	200	132.125	0.124	45.1	0.1771	0.0000	OK
360 minute winter	H8103	200	131.519	0.103	45.0	0.1478	0.0000	OK
360 minute winter	H8104	200	131.204	0.129	53.1	0.1845	0.0000	OK
360 minute winter	H8207	192	130.315	0.131	59.2	0.1874	0.0000	OK
360 minute winter	H8206	192	129.899	0.139	63.5	0.1990	0.0000	OK
360 minute winter	H8205	192	129.589	0.139	66.4	0.1988	0.0000	OK
360 minute winter	H8204	192	129.277	0.127	66.4	0.1821	0.0000	OK
360 minute winter	S7202	192	130.176	0.176	131.6	0.2516	0.0000	OK
360 minute winter	S8208	192	129.571	0.141	131.6	0.2012	0.0000	OK
360 minute winter	S8201	192	129.002	0.192	204.5	0.2742	0.0000	OK
360 minute winter	S8203	192	128.199	0.179	204.5	0.2558	0.0000	OK
360 minute winter	S7324	192	127.960	0.160	204.5	0.0000	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	H6808	1.000	H7801	4.2	0.647	0.076	0.1432	
360 minute winter	H7801	1.001	H7907	13.1	1.630	0.138	0.1889	
360 minute winter	H7907	1.002	H7908	18.8	2.181	0.149	0.4757	
360 minute winter	H7908	1.003	H7905	21.8	2.314	0.161	0.1292	
360 minute winter	H7905	1.004	H7906	24.9	2.411	0.185	0.2302	
360 minute winter	H7906	1.005	H8001	29.3	2.271	0.225	0.6318	
360 minute winter	H8001	1.006	H8002	36.1	2.466	0.328	0.7045	
360 minute winter	H8002	1.007	H8105	42.4	1.781	0.241	1.0813	
360 minute winter	H8105	1.008	H8103	45.0	1.694	0.334	0.9217	
360 minute winter	H8103	1.009	H8104	45.0	1.562	0.155	0.4720	
360 minute winter	H8104	1.010	H8207	53.1	1.571	0.252	2.7255	
360 minute winter	H8207	1.011	H8206	59.2	1.658	0.247	1.0551	
360 minute winter	H8206	1.012	H8205	63.4	1.709	0.262	0.7893	
360 minute winter	H8205	1.013	H8204	66.4	1.899	0.252	0.6080	
360 minute winter	H8204	1.014	S8201	66.4	1.608	0.223	0.6902	
360 minute winter	S7202	2.000	S8208	131.6	2.647	0.274	1.2950	
360 minute winter	S8208	2.001	S8201	131.6	2.477	0.187	0.7045	
360 minute winter	S8201	1.015	S8203	204.5	3.327	0.312	1.1911	
360 minute winter	S8203	1.016	S7324	204.5	1.878	0.278	1.8570	1970.8

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Results for 30 year +40% CC 480 minute summer. 1920 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
480 minute summer	H6808	304	145.029	0.042	4.3	0.0605	0.0000	OK
480 minute summer	H7801	320	144.800	0.059	13.5	0.0841	0.0000	OK
480 minute summer	H7907	304	144.026	0.058	18.5	0.0832	0.0000	OK
480 minute summer	H7908	248	140.849	0.063	21.6	0.0898	0.0000	OK
480 minute summer	H7905	248	139.936	0.067	25.2	0.0952	0.0000	OK
480 minute summer	H7906	248	138.457	0.073	29.9	0.1044	0.0000	OK
480 minute summer	H8001	248	135.435	0.092	37.3	0.1315	0.0000	OK
480 minute summer	H8002	248	133.229	0.102	44.5	0.1460	0.0000	OK
480 minute summer	H8105	248	132.129	0.128	48.1	0.1837	0.0000	OK
480 minute summer	H8103	248	131.523	0.107	48.0	0.1529	0.0000	OK
480 minute summer	H8104	248	131.211	0.136	58.5	0.1940	0.0000	OK
480 minute summer	H8207	248	130.323	0.139	66.0	0.1990	0.0000	OK
480 minute summer	H8206	248	129.909	0.149	71.2	0.2127	0.0000	OK
480 minute summer	H8205	248	129.599	0.149	74.8	0.2128	0.0000	OK
480 minute summer	H8204	248	129.287	0.137	74.8	0.1963	0.0000	OK
480 minute summer	S7202	248	130.194	0.194	156.3	0.2778	0.0000	OK
480 minute summer	S8208	248	129.586	0.156	156.2	0.2234	0.0000	OK
480 minute summer	S8201	248	129.021	0.211	238.8	0.3018	0.0000	OK
480 minute summer	S8203	248	128.216	0.196	238.6	0.2803	0.0000	OK
480 minute summer	S7324	248	127.973	0.173	238.4	0.0000	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	H6808	1.000	H7801	4.3	0.648	0.078	0.1463	
480 minute summer	H7801	1.001	H7907	13.5	1.667	0.143	0.1913	
480 minute summer	H7907	1.002	H7908	18.5	2.186	0.147	0.4688	
480 minute summer	H7908	1.003	H7905	21.6	2.299	0.160	0.1292	
480 minute summer	H7905	1.004	H7906	25.2	2.411	0.187	0.2326	
480 minute summer	H7906	1.005	H8001	29.9	2.271	0.229	0.6434	
480 minute summer	H8001	1.006	H8002	37.2	2.484	0.337	0.7198	
480 minute summer	H8002	1.007	H8105	44.5	1.786	0.253	1.1292	
480 minute summer	H8105	1.008	H8103	48.0	1.721	0.355	0.9663	
480 minute summer	H8103	1.009	H8104	47.9	1.558	0.165	0.5010	
480 minute summer	H8104	1.010	H8207	58.5	1.601	0.278	2.9405	
480 minute summer	H8207	1.011	H8206	65.9	1.694	0.275	1.1495	
480 minute summer	H8206	1.012	H8205	71.1	1.751	0.294	0.8639	
480 minute summer	H8205	1.013	H8204	74.8	1.940	0.284	0.6697	
480 minute summer	H8204	1.014	S8201	74.8	1.660	0.251	0.7731	
480 minute summer	S7202	2.000	S8208	156.2	2.739	0.326	1.4854	
480 minute summer	S8208	2.001	S8201	156.0	2.577	0.222	0.8046	
480 minute summer	S8201	1.015	S8203	238.6	3.431	0.364	1.3477	
480 minute summer	S8203	1.016	S7324	238.4	1.948	0.324	2.0873	2137.9

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Results for 30 year +40% CC 480 minute winter. 1920 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
480 minute winter	H6808	320	145.027	0.040	3.8	0.0571	0.0000	OK
480 minute winter	H7801	312	144.796	0.055	12.0	0.0787	0.0000	OK
480 minute winter	H7907	288	144.024	0.056	17.1	0.0799	0.0000	OK
480 minute winter	H7908	288	140.846	0.060	19.7	0.0855	0.0000	OK
480 minute winter	H7905	288	139.932	0.063	22.5	0.0896	0.0000	OK
480 minute winter	H7906	288	138.453	0.068	26.5	0.0980	0.0000	OK
480 minute winter	H8001	288	135.428	0.085	32.4	0.1218	0.0000	OK
480 minute winter	H8002	288	133.221	0.094	37.6	0.1338	0.0000	OK
480 minute winter	H8105	272	132.116	0.115	39.6	0.1645	0.0000	OK
480 minute winter	H8103	272	131.512	0.096	39.5	0.1376	0.0000	OK
480 minute winter	H8104	272	131.194	0.119	45.7	0.1705	0.0000	OK
480 minute winter	H8207	256	130.304	0.120	50.4	0.1716	0.0000	OK
480 minute winter	H8206	256	129.887	0.127	53.8	0.1812	0.0000	OK
480 minute winter	H8205	256	129.576	0.126	56.1	0.1809	0.0000	OK
480 minute winter	H8204	256	129.265	0.115	56.1	0.1643	0.0000	OK
480 minute winter	S7202	248	130.156	0.156	106.2	0.2232	0.0000	OK
480 minute winter	S8208	248	129.554	0.124	106.2	0.1772	0.0000	OK
480 minute winter	S8201	256	128.980	0.170	166.9	0.2429	0.0000	OK
480 minute winter	S8203	256	128.179	0.159	167.0	0.2275	0.0000	OK
480 minute winter	S7324	256	127.944	0.143	167.0	0.0000	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	H6808	1.000	H7801	3.8	0.627	0.069	0.1340	
480 minute winter	H7801	1.001	H7907	12.0	1.590	0.127	0.1772	
480 minute winter	H7907	1.002	H7908	17.1	2.128	0.136	0.4430	
480 minute winter	H7908	1.003	H7905	19.7	2.257	0.146	0.1197	
480 minute winter	H7905	1.004	H7906	22.5	2.342	0.166	0.2133	
480 minute winter	H7906	1.005	H8001	26.4	2.214	0.203	0.5843	
480 minute winter	H8001	1.006	H8002	32.4	2.397	0.294	0.6505	
480 minute winter	H8002	1.007	H8105	37.6	1.733	0.214	0.9846	
480 minute winter	H8105	1.008	H8103	39.5	1.639	0.293	0.8365	
480 minute winter	H8103	1.009	H8104	39.5	1.522	0.136	0.4249	
480 minute winter	H8104	1.010	H8207	45.7	1.517	0.217	2.4275	
480 minute winter	H8207	1.011	H8206	50.4	1.600	0.210	0.9315	
480 minute winter	H8206	1.012	H8205	53.7	1.646	0.222	0.6944	
480 minute winter	H8205	1.013	H8204	56.1	1.836	0.213	0.5312	
480 minute winter	H8204	1.014	S8201	56.1	1.562	0.188	0.5936	
480 minute winter	S7202	2.000	S8208	106.2	2.530	0.221	1.0945	
480 minute winter	S8208	2.001	S8201	106.1	2.367	0.151	0.5956	
480 minute winter	S8201	1.015	S8203	167.0	3.189	0.255	1.0146	
480 minute winter	S8203	1.016	S7324	167.0	1.786	0.227	1.5942	2116.8

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Results for 30 year +40% CC 600 minute summer. 2040 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
600 minute summer	H6808	375	145.028	0.041	4.1	0.0592	0.0000	OK
600 minute summer	H7801	375	144.799	0.058	13.1	0.0826	0.0000	OK
600 minute summer	H7907	375	144.025	0.057	17.9	0.0818	0.0000	OK
600 minute summer	H7908	360	140.847	0.061	20.4	0.0871	0.0000	OK
600 minute summer	H7905	360	139.933	0.064	23.2	0.0911	0.0000	OK
600 minute summer	H7906	360	138.453	0.069	27.2	0.0993	0.0000	OK
600 minute summer	H8001	315	135.430	0.087	33.5	0.1238	0.0000	OK
600 minute summer	H8002	315	133.223	0.096	39.7	0.1376	0.0000	OK
600 minute summer	H8105	315	132.121	0.120	42.6	0.1713	0.0000	OK
600 minute summer	H8103	315	131.516	0.100	42.5	0.1429	0.0000	OK
600 minute summer	H8104	315	131.201	0.126	51.1	0.1804	0.0000	OK
600 minute summer	H8207	315	130.312	0.128	57.1	0.1836	0.0000	OK
600 minute summer	H8206	315	129.896	0.136	61.3	0.1951	0.0000	OK
600 minute summer	H8205	315	129.586	0.136	64.2	0.1950	0.0000	OK
600 minute summer	H8204	315	129.275	0.125	64.2	0.1783	0.0000	OK
600 minute summer	S7202	315	130.175	0.175	130.5	0.2503	0.0000	OK
600 minute summer	S8208	315	129.570	0.140	130.4	0.2003	0.0000	OK
600 minute summer	S8201	315	129.000	0.190	201.1	0.2714	0.0000	OK
600 minute summer	S8203	315	128.197	0.177	201.0	0.2533	0.0000	OK
600 minute summer	S7324	315	127.958	0.158	200.9	0.0000	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	H6808	1.000	H7801	4.1	0.636	0.074	0.1426	
600 minute summer	H7801	1.001	H7907	13.1	1.641	0.138	0.1871	
600 minute summer	H7907	1.002	H7908	17.9	2.166	0.142	0.4562	
600 minute summer	H7908	1.003	H7905	20.4	2.280	0.151	0.1227	
600 minute summer	H7905	1.004	H7906	23.2	2.364	0.171	0.2177	
600 minute summer	H7906	1.005	H8001	27.1	2.231	0.208	0.5951	
600 minute summer	H8001	1.006	H8002	33.4	2.415	0.303	0.6648	
600 minute summer	H8002	1.007	H8105	39.7	1.748	0.226	1.0338	
600 minute summer	H8105	1.008	H8103	42.5	1.669	0.315	0.8824	
600 minute summer	H8103	1.009	H8104	42.5	1.538	0.146	0.4545	
600 minute summer	H8104	1.010	H8207	51.0	1.551	0.242	2.6482	
600 minute summer	H8207	1.011	H8206	57.0	1.642	0.238	1.0264	
600 minute summer	H8206	1.012	H8205	61.2	1.694	0.253	0.7686	
600 minute summer	H8205	1.013	H8204	64.2	1.887	0.244	0.5915	
600 minute summer	H8204	1.014	S8201	64.2	1.634	0.216	0.6772	
600 minute summer	S7202	2.000	S8208	130.4	2.642	0.272	1.2866	
600 minute summer	S8208	2.001	S8201	130.4	2.481	0.186	0.6969	
600 minute summer	S8201	1.015	S8203	201.0	3.315	0.307	1.1751	
600 minute summer	S8203	1.016	S7324	200.9	1.870	0.273	1.8330	2249.5

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Results for 30 year +40% CC 600 minute winter. 2040 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
600 minute winter	H6808	375	145.025	0.038	3.5	0.0548	0.0000	OK
600 minute winter	H7801	375	144.794	0.053	11.0	0.0751	0.0000	OK
600 minute winter	H7907	375	144.022	0.054	15.7	0.0766	0.0000	OK
600 minute winter	H7908	360	140.843	0.057	18.0	0.0816	0.0000	OK
600 minute winter	H7905	360	139.929	0.060	20.5	0.0853	0.0000	OK
600 minute winter	H7906	360	138.449	0.065	24.1	0.0933	0.0000	OK
600 minute winter	H8001	360	135.424	0.081	29.6	0.1158	0.0000	OK
600 minute winter	H8002	360	133.216	0.089	34.4	0.1277	0.0000	OK
600 minute winter	H8105	360	132.110	0.109	36.0	0.1560	0.0000	OK
600 minute winter	H8103	360	131.507	0.091	36.0	0.1308	0.0000	OK
600 minute winter	H8104	330	131.188	0.113	41.2	0.1614	0.0000	OK
600 minute winter	H8207	330	130.297	0.113	45.2	0.1617	0.0000	OK
600 minute winter	H8206	330	129.879	0.119	48.0	0.1701	0.0000	OK
600 minute winter	H8205	330	129.569	0.119	50.0	0.1696	0.0000	OK
600 minute winter	H8204	330	129.257	0.107	50.0	0.1536	0.0000	OK
600 minute winter	S7202	315	130.142	0.142	89.1	0.2029	0.0000	OK
600 minute winter	S8208	315	129.542	0.112	89.1	0.1601	0.0000	OK
600 minute winter	S8201	315	128.965	0.155	143.0	0.2221	0.0000	OK
600 minute winter	S8203	315	128.166	0.146	143.0	0.2084	0.0000	OK
600 minute winter	S7324	315	127.932	0.132	142.9	0.0000	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	H6808	1.000	H7801	3.5	0.619	0.064	0.1259	
600 minute winter	H7801	1.001	H7907	11.0	1.548	0.116	0.1671	
600 minute winter	H7907	1.002	H7908	15.7	2.083	0.125	0.4158	
600 minute winter	H7908	1.003	H7905	18.0	2.207	0.133	0.1119	
600 minute winter	H7905	1.004	H7906	20.5	2.285	0.152	0.1993	
600 minute winter	H7906	1.005	H8001	24.1	2.158	0.184	0.5457	
600 minute winter	H8001	1.006	H8002	29.6	2.338	0.268	0.6079	
600 minute winter	H8002	1.007	H8105	34.4	1.694	0.196	0.9203	
600 minute winter	H8105	1.008	H8103	36.0	1.599	0.267	0.7801	
600 minute winter	H8103	1.009	H8104	36.0	1.492	0.124	0.3939	
600 minute winter	H8104	1.010	H8207	41.2	1.479	0.196	2.2470	
600 minute winter	H8207	1.011	H8206	45.2	1.561	0.188	0.8559	
600 minute winter	H8206	1.012	H8205	48.0	1.604	0.198	0.6358	
600 minute winter	H8205	1.013	H8204	50.0	1.791	0.190	0.4849	
600 minute winter	H8204	1.014	S8201	50.0	1.532	0.168	0.5301	
600 minute winter	S7202	2.000	S8208	89.1	2.434	0.186	0.9549	
600 minute winter	S8208	2.001	S8201	89.1	2.268	0.127	0.5229	
600 minute winter	S8201	1.015	S8203	143.0	3.082	0.218	0.8989	
600 minute winter	S8203	1.016	S7324	142.9	1.719	0.194	1.4193	2230.0

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Results for 30 year +40% CC 720 minute summer. 2160 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
720 minute summer	H6808	435	145.028	0.041	4.0	0.0585	0.0000	OK
720 minute summer	H7801	435	144.798	0.056	12.6	0.0808	0.0000	OK
720 minute summer	H7907	435	144.025	0.057	17.5	0.0809	0.0000	OK
720 minute summer	H7908	435	140.846	0.060	19.8	0.0859	0.0000	OK
720 minute summer	H7905	435	139.932	0.062	22.4	0.0894	0.0000	OK
720 minute summer	H7906	435	138.452	0.068	26.3	0.0976	0.0000	OK
720 minute summer	H8001	435	135.428	0.085	32.2	0.1213	0.0000	OK
720 minute summer	H8002	420	133.220	0.092	36.8	0.1323	0.0000	OK
720 minute summer	H8105	375	132.115	0.114	39.1	0.1632	0.0000	OK
720 minute summer	H8103	375	131.511	0.095	39.0	0.1363	0.0000	OK
720 minute summer	H8104	375	131.195	0.120	46.6	0.1719	0.0000	OK
720 minute summer	H8207	375	130.306	0.122	51.9	0.1742	0.0000	OK
720 minute summer	H8206	375	129.889	0.129	55.6	0.1847	0.0000	OK
720 minute summer	H8205	375	129.579	0.129	58.3	0.1847	0.0000	OK
720 minute summer	H8204	375	129.267	0.117	58.3	0.1679	0.0000	OK
720 minute summer	S7202	375	130.163	0.163	115.3	0.2335	0.0000	OK
720 minute summer	S8208	375	129.560	0.130	115.3	0.1861	0.0000	OK
720 minute summer	S8201	375	128.987	0.177	179.2	0.2533	0.0000	OK
720 minute summer	S8203	375	128.186	0.166	179.2	0.2369	0.0000	OK
720 minute summer	S7324	375	127.949	0.149	179.1	0.0000	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	H6808	1.000	H7801	4.0	0.634	0.073	0.1390	
720 minute summer	H7801	1.001	H7907	12.6	1.617	0.133	0.1827	
720 minute summer	H7907	1.002	H7908	17.5	2.150	0.139	0.4479	
720 minute summer	H7908	1.003	H7905	19.8	2.267	0.146	0.1199	
720 minute summer	H7905	1.004	H7906	22.4	2.342	0.166	0.2125	
720 minute summer	H7906	1.005	H8001	26.3	2.212	0.201	0.5810	
720 minute summer	H8001	1.006	H8002	32.2	2.391	0.292	0.6466	
720 minute summer	H8002	1.007	H8105	36.8	1.734	0.210	0.9707	
720 minute summer	H8105	1.008	H8103	39.0	1.633	0.289	0.8282	
720 minute summer	H8103	1.009	H8104	39.0	1.528	0.134	0.4252	
720 minute summer	H8104	1.010	H8207	46.5	1.516	0.221	2.4707	
720 minute summer	H8207	1.011	H8206	51.8	1.607	0.216	0.9537	
720 minute summer	H8206	1.012	H8205	55.6	1.657	0.230	0.7134	
720 minute summer	H8205	1.013	H8204	58.3	1.851	0.221	0.5470	
720 minute summer	H8204	1.014	S8201	58.2	1.605	0.196	0.6212	
720 minute summer	S7202	2.000	S8208	115.3	2.574	0.240	1.1671	
720 minute summer	S8208	2.001	S8201	115.2	2.415	0.164	0.6330	
720 minute summer	S8201	1.015	S8203	179.2	3.237	0.274	1.0729	
720 minute summer	S8203	1.016	S7324	179.1	1.818	0.244	1.6812	2346.0

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Results for 30 year +40% CC 720 minute winter. 2160 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
720 minute winter	H6808	450	145.024	0.037	3.3	0.0532	0.0000	OK
720 minute winter	H7801	450	144.792	0.051	10.2	0.0724	0.0000	OK
720 minute winter	H7907	435	144.020	0.052	14.6	0.0739	0.0000	OK
720 minute winter	H7908	435	140.841	0.055	16.7	0.0785	0.0000	OK
720 minute winter	H7905	435	139.926	0.057	19.0	0.0821	0.0000	OK
720 minute winter	H7906	435	138.447	0.063	22.3	0.0897	0.0000	OK
720 minute winter	H8001	435	135.421	0.077	27.3	0.1109	0.0000	OK
720 minute winter	H8002	420	133.213	0.086	31.7	0.1224	0.0000	OK
720 minute winter	H8105	420	132.105	0.104	33.2	0.1492	0.0000	OK
720 minute winter	H8103	420	131.503	0.087	33.2	0.1251	0.0000	OK
720 minute winter	H8104	405	131.183	0.108	37.6	0.1540	0.0000	OK
720 minute winter	H8207	405	130.291	0.107	40.9	0.1533	0.0000	OK
720 minute winter	H8206	405	129.872	0.112	43.2	0.1606	0.0000	OK
720 minute winter	H8205	390	129.562	0.112	44.8	0.1598	0.0000	OK
720 minute winter	H8204	405	129.251	0.101	44.8	0.1445	0.0000	OK
720 minute winter	S7202	375	130.132	0.132	77.5	0.1882	0.0000	OK
720 minute winter	S8208	375	129.533	0.103	77.5	0.1479	0.0000	OK
720 minute winter	S8201	375	128.954	0.144	125.5	0.2063	0.0000	OK
720 minute winter	S8203	375	128.155	0.135	125.5	0.1938	0.0000	OK
720 minute winter	S7324	375	127.924	0.124	125.5	0.0000	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	H6808	1.000	H7801	3.3	0.607	0.060	0.1198	
720 minute winter	H7801	1.001	H7907	10.2	1.518	0.108	0.1583	
720 minute winter	H7907	1.002	H7908	14.6	2.039	0.116	0.3942	
720 minute winter	H7908	1.003	H7905	16.7	2.165	0.124	0.1059	
720 minute winter	H7905	1.004	H7906	19.0	2.239	0.141	0.1887	
720 minute winter	H7906	1.005	H8001	22.3	2.117	0.171	0.5154	
720 minute winter	H8001	1.006	H8002	27.3	2.287	0.248	0.5735	
720 minute winter	H8002	1.007	H8105	31.7	1.659	0.180	0.8668	
720 minute winter	H8105	1.008	H8103	33.2	1.565	0.246	0.7350	
720 minute winter	H8103	1.009	H8104	33.2	1.461	0.114	0.3695	
720 minute winter	H8104	1.010	H8207	37.6	1.447	0.179	2.0941	
720 minute winter	H8207	1.011	H8206	40.9	1.526	0.170	0.7920	
720 minute winter	H8206	1.012	H8205	43.2	1.567	0.178	0.5859	
720 minute winter	H8205	1.013	H8204	44.8	1.748	0.170	0.4457	
720 minute winter	H8204	1.014	S8201	44.8	1.506	0.150	0.4819	
720 minute winter	S7202	2.000	S8208	77.5	2.358	0.162	0.8576	
720 minute winter	S8208	2.001	S8201	77.5	2.195	0.110	0.4705	
720 minute winter	S8201	1.015	S8203	125.5	2.995	0.192	0.8125	
720 minute winter	S8203	1.016	S7324	125.5	1.663	0.171	1.2879	2322.0

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Results for 30 year +40% CC 960 minute summer. 2400 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	H6808	555	145.026	0.039	3.7	0.0563	0.0000	OK
960 minute summer	H7801	555	144.795	0.054	11.6	0.0774	0.0000	OK
960 minute summer	H7907	555	144.022	0.054	16.2	0.0778	0.0000	OK
960 minute summer	H7908	555	140.844	0.058	18.4	0.0826	0.0000	OK
960 minute summer	H7905	555	139.929	0.060	20.8	0.0860	0.0000	OK
960 minute summer	H7906	555	138.450	0.066	24.4	0.0939	0.0000	OK
960 minute summer	H8001	555	135.424	0.081	29.9	0.1164	0.0000	OK
960 minute summer	H8002	555	133.216	0.089	34.3	0.1275	0.0000	OK
960 minute summer	H8105	540	132.109	0.108	35.6	0.1551	0.0000	OK
960 minute summer	H8103	540	131.507	0.091	35.6	0.1301	0.0000	OK
960 minute summer	H8104	495	131.186	0.111	40.1	0.1589	0.0000	OK
960 minute summer	H8207	495	130.296	0.112	44.4	0.1601	0.0000	OK
960 minute summer	H8206	495	129.878	0.118	47.5	0.1691	0.0000	OK
960 minute summer	H8205	495	129.568	0.118	49.6	0.1690	0.0000	OK
960 minute summer	H8204	495	129.257	0.107	49.6	0.1527	0.0000	OK
960 minute summer	S7202	495	130.145	0.145	93.3	0.2080	0.0000	OK
960 minute summer	S8208	495	129.545	0.115	93.3	0.1645	0.0000	OK
960 minute summer	S8201	495	128.968	0.158	147.5	0.2261	0.0000	OK
960 minute summer	S8203	495	128.168	0.148	147.5	0.2121	0.0000	OK
960 minute summer	S7324	495	127.935	0.135	147.5	0.0000	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	H6808	1.000	H7801	3.7	0.622	0.067	0.1311	
960 minute summer	H7801	1.001	H7907	11.6	1.581	0.122	0.1724	
960 minute summer	H7907	1.002	H7908	16.2	2.102	0.129	0.4241	
960 minute summer	H7908	1.003	H7905	18.4	2.225	0.136	0.1135	
960 minute summer	H7905	1.004	H7906	20.8	2.296	0.154	0.2013	
960 minute summer	H7906	1.005	H8001	24.4	2.167	0.187	0.5502	
960 minute summer	H8001	1.006	H8002	29.9	2.344	0.271	0.6124	
960 minute summer	H8002	1.007	H8105	34.3	1.701	0.195	0.9146	
960 minute summer	H8105	1.008	H8103	35.6	1.594	0.264	0.7737	
960 minute summer	H8103	1.009	H8104	35.6	1.499	0.122	0.3876	
960 minute summer	H8104	1.010	H8207	40.0	1.471	0.190	2.2074	
960 minute summer	H8207	1.011	H8206	44.4	1.551	0.185	0.8464	
960 minute summer	H8206	1.012	H8205	47.4	1.597	0.196	0.6315	
960 minute summer	H8205	1.013	H8204	49.6	1.790	0.188	0.4817	
960 minute summer	H8204	1.014	S8201	49.6	1.564	0.166	0.5384	
960 minute summer	S7202	2.000	S8208	93.3	2.458	0.194	0.9900	
960 minute summer	S8208	2.001	S8201	93.3	2.300	0.133	0.5387	
960 minute summer	S8201	1.015	S8203	147.5	3.103	0.225	0.9209	
960 minute summer	S8203	1.016	S7324	147.5	1.732	0.201	1.4527	2497.9

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Results for 30 year +40% CC 960 minute winter. 2400 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 winter	H6808	585	145.021	0.034	2.8	0.0492	0.0000	OK
960 minute winter	H7801	570	144.788	0.047	8.8	0.0670	0.0000	OK
960 minute winter	H7907	570	144.016	0.048	12.6	0.0686	0.0000	OK
960 minute winter	H7908	570	140.837	0.051	14.4	0.0727	0.0000	OK
960 minute winter	H7905	540	139.922	0.053	16.4	0.0760	0.0000	OK
960 minute winter	H7906	540	138.442	0.058	19.3	0.0833	0.0000	OK
960 minute winter	H8001	540	135.415	0.072	23.7	0.1028	0.0000	OK
960 minute winter	H8002	540	133.207	0.080	27.5	0.1139	0.0000	OK
960 minute winter	H8105	540	132.097	0.096	28.7	0.1378	0.0000	OK
960 minute winter	H8103	540	131.497	0.081	28.6	0.1156	0.0000	OK
960 minute winter	H8104	540	131.175	0.100	32.3	0.1426	0.0000	OK
960 minute winter	H8207	540	130.283	0.099	34.9	0.1411	0.0000	OK
960 minute winter	H8206	540	129.863	0.103	36.7	0.1472	0.0000	OK
960 minute winter	H8205	540	129.552	0.102	38.0	0.1462	0.0000	OK
960 minute winter	H8204	540	129.242	0.092	38.0	0.1322	0.0000	OK
960 minute winter	S7202	495	130.117	0.117	61.8	0.1671	0.0000	OK
960 minute winter	S8208	495	129.521	0.091	61.8	0.1304	0.0000	OK
960 minute winter	S8201	495	128.938	0.128	102.0	0.1838	0.0000	OK
960 minute winter	S8203	495	128.141	0.121	102.0	0.1729	0.0000	OK
960 minute winter	S7324	495	127.912	0.112	102.0	0.0000	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	H6808	1.000	H7801	2.8	0.579	0.051	0.1071	
960 minute winter	H7801	1.001	H7907	8.8	1.450	0.093	0.1424	
960 minute winter	H7907	1.002	H7908	12.6	1.959	0.100	0.3542	
960 minute winter	H7908	1.003	H7905	14.4	2.086	0.107	0.0948	
960 minute winter	H7905	1.004	H7906	16.4	2.148	0.121	0.1697	
960 minute winter	H7906	1.005	H8001	19.3	2.031	0.148	0.4644	
960 minute winter	H8001	1.006	H8002	23.7	2.200	0.215	0.5169	
960 minute winter	H8002	1.007	H8105	27.5	1.598	0.156	0.7798	
960 minute winter	H8105	1.008	H8103	28.6	1.505	0.212	0.6602	
960 minute winter	H8103	1.009	H8104	28.6	1.409	0.099	0.3314	
960 minute winter	H8104	1.010	H8207	32.3	1.391	0.154	1.8726	
960 minute winter	H8207	1.011	H8206	34.9	1.469	0.146	0.7030	
960 minute winter	H8206	1.012	H8205	36.7	1.507	0.152	0.5183	
960 minute winter	H8205	1.013	H8204	38.0	1.681	0.144	0.3936	
960 minute winter	H8204	1.014	S8201	38.0	1.457	0.128	0.4164	
960 minute winter	S7202	2.000	S8208	61.8	2.236	0.129	0.7216	
960 minute winter	S8208	2.001	S8201	61.8	2.076	0.088	0.3976	
960 minute winter	S8201	1.015	S8203	102.0	2.856	0.156	0.6923	
960 minute winter	S8203	1.016	S7324	102.0	1.576	0.139	1.1044	2471.7

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Results for 30 year +40% CC 1440 minute summer. 2880 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	H6808	810	145.023	0.036	3.1	0.0516	0.0000	OK
1440 minute summer	H7801	810	144.791	0.050	9.8	0.0710	0.0000	OK
1440 minute summer	H7907	810	144.018	0.050	13.6	0.0713	0.0000	OK
1440 minute summer	H7908	810	140.839	0.053	15.4	0.0752	0.0000	OK
1440 minute summer	H7905	810	139.924	0.055	17.5	0.0786	0.0000	OK
1440 minute summer	H7906	810	138.444	0.060	20.5	0.0859	0.0000	OK
1440 minute summer	H8001	810	135.417	0.074	25.1	0.1060	0.0000	OK
1440 minute summer	H8002	810	133.209	0.081	28.8	0.1166	0.0000	OK
1440 minute summer	H8105	780	132.100	0.099	29.9	0.1410	0.0000	OK
1440 minute summer	H8103	780	131.499	0.083	29.9	0.1182	0.0000	OK
1440 minute summer	H8104	780	131.176	0.101	33.5	0.1452	0.0000	OK
1440 minute summer	H8207	780	130.284	0.100	36.1	0.1435	0.0000	OK
1440 minute summer	H8206	780	129.865	0.105	37.8	0.1495	0.0000	OK
1440 minute summer	H8205	750	129.554	0.104	39.1	0.1485	0.0000	OK
1440 minute summer	H8204	780	129.244	0.094	39.1	0.1346	0.0000	OK
1440 minute summer	S7202	750	130.121	0.121	65.9	0.1728	0.0000	OK
1440 minute summer	S8208	720	129.525	0.095	65.9	0.1354	0.0000	OK
1440 minute summer	S8201	750	128.943	0.133	108.3	0.1899	0.0000	OK
1440 minute summer	S8203	750	128.145	0.125	108.2	0.1786	0.0000	OK
1440 minute summer	S7324	750	127.915	0.115	108.2	0.0000	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	H6808	1.000	H7801	3.1	0.590	0.056	0.1158	
1440 minute summer	H7801	1.001	H7907	9.8	1.508	0.103	0.1524	
1440 minute summer	H7907	1.002	H7908	13.6	2.007	0.108	0.3728	
1440 minute summer	H7908	1.003	H7905	15.4	2.120	0.114	0.0997	
1440 minute summer	H7905	1.004	H7906	17.5	2.189	0.129	0.1776	
1440 minute summer	H7906	1.005	H8001	20.5	2.067	0.157	0.4848	
1440 minute summer	H8001	1.006	H8002	25.1	2.235	0.227	0.5393	
1440 minute summer	H8002	1.007	H8105	28.8	1.624	0.164	0.8047	
1440 minute summer	H8105	1.008	H8103	29.9	1.521	0.221	0.6808	
1440 minute summer	H8103	1.009	H8104	29.9	1.434	0.103	0.3408	
1440 minute summer	H8104	1.010	H8207	33.5	1.405	0.159	1.9183	
1440 minute summer	H8207	1.011	H8206	36.0	1.482	0.150	0.7193	
1440 minute summer	H8206	1.012	H8205	37.8	1.519	0.156	0.5298	
1440 minute summer	H8205	1.013	H8204	39.1	1.695	0.149	0.4028	
1440 minute summer	H8204	1.014	S8201	39.1	1.504	0.131	0.4334	
1440 minute summer	S7202	2.000	S8208	65.9	2.271	0.137	0.7585	
1440 minute summer	S8208	2.001	S8201	65.9	2.133	0.094	0.4171	
1440 minute summer	S8201	1.015	S8203	108.2	2.896	0.165	0.7246	
1440 minute summer	S8203	1.016	S7324	108.2	1.600	0.147	1.1539	2700.4

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Results for 30 year +40% CC 1440 minute winter. 2880 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 winter	H6808	840	145.018	0.031	2.2	0.0438	0.0000	OK
1440 minute winter	H7801	840	144.783	0.041	6.9	0.0594	0.0000	OK
1440 minute winter	H7907	810	144.011	0.043	9.9	0.0610	0.0000	OK
1440 minute winter	H7908	810	140.831	0.045	11.3	0.0641	0.0000	OK
1440 minute winter	H7905	810	139.916	0.047	12.9	0.0672	0.0000	OK
1440 minute winter	H7906	810	138.436	0.052	15.2	0.0739	0.0000	OK
1440 minute winter	H8001	810	135.406	0.063	18.6	0.0905	0.0000	OK
1440 minute winter	H8002	810	133.197	0.070	21.5	0.1006	0.0000	OK
1440 minute winter	H8105	810	132.085	0.084	22.4	0.1208	0.0000	OK
1440 minute winter	H8103	810	131.487	0.071	22.4	0.1014	0.0000	OK
1440 minute winter	H8104	810	131.162	0.087	25.0	0.1251	0.0000	OK
1440 minute winter	H8207	810	130.270	0.086	26.9	0.1230	0.0000	OK
1440 minute winter	H8206	780	129.849	0.089	28.2	0.1280	0.0000	OK
1440 minute winter	H8205	780	129.539	0.089	29.2	0.1273	0.0000	OK
1440 minute winter	H8204	780	129.230	0.080	29.2	0.1144	0.0000	OK
1440 minute winter	S7202	750	130.098	0.098	44.3	0.1407	0.0000	OK
1440 minute winter	S8208	720	129.506	0.076	44.3	0.1090	0.0000	OK
1440 minute winter	S8201	750	128.919	0.109	75.3	0.1560	0.0000	OK
1440 minute winter	S8203	750	128.123	0.103	75.3	0.1469	0.0000	OK
1440 minute winter	S7324	750	127.896	0.096	75.3	0.0000	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	H6808	1.000	H7801	2.2	0.538	0.040	0.0903	
1440 minute winter	H7801	1.001	H7907	6.9	1.355	0.073	0.1198	
1440 minute winter	H7907	1.002	H7908	9.9	1.832	0.079	0.2974	
1440 minute winter	H7908	1.003	H7905	11.3	1.950	0.084	0.0796	
1440 minute winter	H7905	1.004	H7906	12.9	2.009	0.095	0.1428	
1440 minute winter	H7906	1.005	H8001	15.2	1.904	0.116	0.3904	
1440 minute winter	H8001	1.006	H8002	18.6	2.058	0.169	0.4339	
1440 minute winter	H8002	1.007	H8105	21.5	1.496	0.122	0.6516	
1440 minute winter	H8105	1.008	H8103	22.4	1.407	0.166	0.5512	
1440 minute winter	H8103	1.009	H8104	22.4	1.324	0.077	0.2752	
1440 minute winter	H8104	1.010	H8207	25.0	1.298	0.119	1.5496	
1440 minute winter	H8207	1.011	H8206	26.9	1.375	0.112	0.5779	
1440 minute winter	H8206	1.012	H8205	28.2	1.411	0.117	0.4257	
1440 minute winter	H8205	1.013	H8204	29.2	1.578	0.111	0.3220	
1440 minute winter	H8204	1.014	S8201	29.2	1.378	0.098	0.3352	
1440 minute winter	S7202	2.000	S8208	44.3	2.061	0.092	0.5618	
1440 minute winter	S8208	2.001	S8201	44.3	1.905	0.063	0.3121	
1440 minute winter	S8201	1.015	S8203	75.3	2.656	0.115	0.5496	
1440 minute winter	S8203	1.016	S7324	75.3	1.456	0.102	0.8833	2680.6

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Results for 30 year +40% CC 2160 minute summer. 3600 minute analysis at 60 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
2160 minute summer	H6808	1200	145.020	0.033	2.5	0.0465	0.0000	OK
2160 minute summer	H7801	1200	144.785	0.044	7.9	0.0636	0.0000	OK
2160 minute summer	H7907	1200	144.013	0.045	11.1	0.0645	0.0000	OK
2160 minute summer	H7908	1200	140.833	0.047	12.5	0.0675	0.0000	OK
2160 minute summer	H7905	1200	139.918	0.049	14.2	0.0706	0.0000	OK
2160 minute summer	H7906	1200	138.438	0.054	16.7	0.0775	0.0000	OK
2160 minute summer	H8001	1200	135.410	0.067	20.5	0.0952	0.0000	OK
2160 minute summer	H8002	1200	133.201	0.074	23.6	0.1055	0.0000	OK
2160 minute summer	H8105	1200	132.089	0.088	24.4	0.1264	0.0000	OK
2160 minute summer	H8103	1200	131.490	0.074	24.4	0.1062	0.0000	OK
2160 minute summer	H8104	1200	131.166	0.091	26.8	0.1298	0.0000	OK
2160 minute summer	H8207	1140	130.273	0.089	28.7	0.1272	0.0000	OK
2160 minute summer	H8206	1140	129.853	0.093	30.1	0.1325	0.0000	OK
2160 minute summer	H8205	1140	129.542	0.092	31.2	0.1317	0.0000	OK
2160 minute summer	H8204	1140	129.233	0.083	31.2	0.1185	0.0000	OK
2160 minute summer	S7202	1140	130.100	0.100	45.9	0.1433	0.0000	OK
2160 minute summer	S8208	1080	129.508	0.078	45.9	0.1113	0.0000	OK
2160 minute summer	S8201	1140	128.922	0.112	79.4	0.1605	0.0000	OK
2160 minute summer	S8203	1140	128.126	0.106	79.4	0.1511	0.0000	OK
2160 minute summer	S7324	1140	127.898	0.098	79.4	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	H6808	1.000	H7801	2.5	0.556	0.045	0.0992	
2160 minute summer	H7801	1.001	H7907	7.9	1.414	0.083	0.1311	
2160 minute summer	H7907	1.002	H7908	11.1	1.901	0.088	0.3214	
2160 minute summer	H7908	1.003	H7905	12.5	2.007	0.092	0.0855	
2160 minute summer	H7905	1.004	H7906	14.2	2.064	0.105	0.1529	
2160 minute summer	H7906	1.005	H8001	16.7	1.952	0.128	0.4183	
2160 minute summer	H8001	1.006	H8002	20.5	2.115	0.186	0.4655	
2160 minute summer	H8002	1.007	H8105	23.6	1.539	0.134	0.6951	
2160 minute summer	H8105	1.008	H8103	24.4	1.441	0.181	0.5866	
2160 minute summer	H8103	1.009	H8104	24.4	1.362	0.084	0.2914	
2160 minute summer	H8104	1.010	H8207	26.8	1.327	0.127	1.6249	
2160 minute summer	H8207	1.011	H8206	28.6	1.398	0.119	0.6067	
2160 minute summer	H8206	1.012	H8205	30.1	1.433	0.125	0.4470	
2160 minute summer	H8205	1.013	H8204	31.2	1.603	0.119	0.3383	
2160 minute summer	H8204	1.014	S8201	31.2	1.437	0.105	0.3519	
2160 minute summer	S7202	2.000	S8208	45.9	2.082	0.096	0.5775	
2160 minute summer	S8208	2.001	S8201	45.9	1.942	0.065	0.3231	
2160 minute summer	S8201	1.015	S8203	79.4	2.691	0.121	0.5720	
2160 minute summer	S8203	1.016	S7324	79.4	1.475	0.108	0.9177	2926.0

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Results for 30 year +40% CC 2160 minute winter. 3600 minute analysis at 60 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
2160 minute winter	H6808	1200	145.014	0.027	1.7	0.0387	0.0000	OK
2160 minute winter	H7801	1200	144.777	0.036	5.3	0.0521	0.0000	OK
2160 minute winter	H7907	1200	144.005	0.037	7.5	0.0532	0.0000	OK
2160 minute winter	H7908	1200	140.825	0.039	8.5	0.0556	0.0000	OK
2160 minute winter	H7905	1200	139.910	0.041	9.7	0.0583	0.0000	OK
2160 minute winter	H7906	1200	138.429	0.045	11.3	0.0639	0.0000	OK
2160 minute winter	H8001	1200	135.397	0.054	13.8	0.0777	0.0000	OK
2160 minute winter	H8002	1140	133.188	0.061	16.0	0.0868	0.0000	OK
2160 minute winter	H8105	1140	132.073	0.072	16.7	0.1036	0.0000	OK
2160 minute winter	H8103	1140	131.477	0.061	16.6	0.0869	0.0000	OK
2160 minute winter	H8104	1140	131.151	0.076	18.7	0.1083	0.0000	OK
2160 minute winter	H8207	1140	130.258	0.074	20.2	0.1064	0.0000	OK
2160 minute winter	H8206	1140	129.837	0.077	21.2	0.1103	0.0000	OK
2160 minute winter	H8205	1140	129.527	0.077	21.9	0.1095	0.0000	OK
2160 minute winter	H8204	1140	129.219	0.069	21.9	0.0981	0.0000	OK
2160 minute winter	S7202	1140	130.083	0.083	31.6	0.1184	0.0000	OK
2160 minute winter	S8208	1140	129.494	0.064	31.6	0.0919	0.0000	OK
2160 minute winter	S8201	1140	128.902	0.092	55.1	0.1322	0.0000	OK
2160 minute winter	S8203	1140	128.107	0.087	55.1	0.1246	0.0000	OK
2160 minute winter	S7324	1140	127.882	0.082	55.1	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	H6808	1.000	H7801	1.7	0.500	0.031	0.0750	
2160 minute winter	H7801	1.001	H7907	5.3	1.257	0.056	0.0989	
2160 minute winter	H7907	1.002	H7908	7.5	1.697	0.060	0.2433	
2160 minute winter	H7908	1.003	H7905	8.5	1.802	0.063	0.0648	
2160 minute winter	H7905	1.004	H7906	9.7	1.856	0.072	0.1161	
2160 minute winter	H7906	1.005	H8001	11.3	1.753	0.087	0.3154	
2160 minute winter	H8001	1.006	H8002	13.8	1.892	0.125	0.3504	
2160 minute winter	H8002	1.007	H8105	16.0	1.377	0.091	0.5260	
2160 minute winter	H8105	1.008	H8103	16.6	1.296	0.123	0.4452	
2160 minute winter	H8103	1.009	H8104	16.6	1.221	0.057	0.2223	
2160 minute winter	H8104	1.010	H8207	18.7	1.198	0.089	1.2594	
2160 minute winter	H8207	1.011	H8206	20.2	1.276	0.084	0.4685	
2160 minute winter	H8206	1.012	H8205	21.2	1.310	0.088	0.3441	
2160 minute winter	H8205	1.013	H8204	21.9	1.468	0.083	0.2593	
2160 minute winter	H8204	1.014	S8201	21.9	1.278	0.074	0.2683	
2160 minute winter	S7202	2.000	S8208	31.6	1.880	0.066	0.4393	
2160 minute winter	S8208	2.001	S8201	31.6	1.738	0.045	0.2459	
2160 minute winter	S8201	1.015	S8203	55.1	2.459	0.084	0.4344	
2160 minute winter	S8203	1.016	S7324	55.1	1.336	0.075	0.7030	2884.9

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Results for 100 year +45% CC 60 minute summer. 1500 minute analysis at 1 minute timestep. Mass balance: 99.78%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.057	0.070	11.5	0.0996	0.0000	OK
60 minute summer	H7801	33	144.832	0.091	32.9	0.1302	0.0000	OK
60 minute summer	H7907	33	144.086	0.118	69.1	0.1694	0.0000	OK
60 minute summer	H7908	33	140.929	0.143	85.4	0.2043	0.0000	OK
60 minute summer	H7905	34	140.058	0.189	101.7	0.2707	0.0000	OK
60 minute summer	H7906	35	139.303	0.919	118.3	1.3157	0.0000	SURCHARGED
60 minute summer	H8001	33	136.768	1.425	144.7	2.0392	6.3723	FLOOD
60 minute summer	H8002	34	134.371	1.244	154.7	1.7802	0.0000	FLOOD RISK
60 minute summer	H8105	34	133.501	1.500	160.1	2.1465	1.7220	FLOOD
60 minute summer	H8103	34	132.778	1.362	150.9	1.9484	0.0000	FLOOD RISK
60 minute summer	H8104	34	132.650	1.575	205.6	2.2538	0.1358	FLOOD
60 minute summer	H8207	34	131.759	1.575	237.3	2.2538	7.4406	FLOOD
60 minute summer	H8206	36	131.391	1.631	245.2	2.3334	0.0000	SURCHARGED
60 minute summer	H8205	37	131.041	1.591	257.3	2.2761	0.0000	SURCHARGED
60 minute summer	H8204	38	130.709	1.559	249.3	2.2307	0.0000	SURCHARGED
60 minute summer	S7202	39	132.115	2.115	542.2	3.0260	0.0000	SURCHARGED
60 minute summer	S8208	39	131.079	1.649	543.1	2.3593	0.0000	SURCHARGED
60 minute summer	S8201	39	130.407	1.597	782.4	2.2847	0.0000	SURCHARGED
60 minute summer	S8203	39	128.632	0.612	782.6	0.8752	0.0000	SURCHARGED
60 minute summer	S7324	39	128.217	0.417	782.7	0.0000	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	H6808	1.000	H7801	11.5	0.904	0.208	0.2791	
60 minute summer	H7801	1.001	H7907	32.8	1.817	0.347	0.4247	
60 minute summer	H7907	1.002	H7908	69.1	2.942	0.550	1.3140	
60 minute summer	H7908	1.003	H7905	86.0	3.089	0.637	0.4155	
60 minute summer	H7905	1.004	H7906	98.6	3.258	0.730	0.8383	
60 minute summer	H7906	1.005	H8001	113.4	2.895	0.869	1.9415	
60 minute summer	H8001	1.006	H8002	120.6	3.047	1.094	1.9114	
60 minute summer	H8002	1.007	H8105	141.2	2.180	0.804	3.1889	
60 minute summer	H8105	1.008	H8103	150.9	2.143	1.118	2.4415	
60 minute summer	H8103	1.009	H8104	150.7	1.803	0.519	1.7911	
60 minute summer	H8104	1.010	H8207	197.9	1.950	0.940	8.8835	
60 minute summer	H8207	1.011	H8206	215.8	1.968	0.899	3.2609	
60 minute summer	H8206	1.012	H8205	236.8	2.147	0.979	2.3452	
60 minute summer	H8205	1.013	H8204	249.3	2.260	0.946	1.9159	
60 minute summer	H8204	1.014	S8201	243.8	2.210	0.819	1.7007	
60 minute summer	S7202	2.000	S8208	543.1	3.428	1.132	4.1206	
60 minute summer	S8208	2.001	S8201	544.7	3.438	0.775	2.0946	
60 minute summer	S8201	1.015	S8203	782.6	4.940	1.195	3.0698	
60 minute summer	S8203	1.016	S7324	782.7	2.470	1.065	5.3156	1600.4

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Results for 100 year +45% CC 60 minute winter. 1500 minute analysis at 1 minute timestep. Mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	H6808	33	145.046	0.059	8.4	0.0844	0.0000	OK
60 minute winter	H7801	33	144.818	0.077	24.1	0.1101	0.0000	OK
60 minute winter	H7907	33	144.067	0.098	50.3	0.1409	0.0000	OK
60 minute winter	H7908	33	140.901	0.115	62.1	0.1641	0.0000	OK
60 minute winter	H7905	33	139.992	0.123	73.4	0.1762	0.0000	OK
60 minute winter	H7906	33	138.518	0.134	87.7	0.1919	0.0000	OK
60 minute winter	H8001	32	135.534	0.191	110.5	0.2738	0.0000	OK
60 minute winter	H8002	36	133.353	0.226	135.9	0.3228	0.0000	OK
60 minute winter	H8105	37	132.768	0.766	149.0	1.0968	0.0000	SURCHARGED
60 minute winter	H8103	37	132.151	0.735	147.5	1.0515	0.0000	SURCHARGED
60 minute winter	H8104	37	132.040	0.965	188.6	1.3803	0.0000	SURCHARGED
60 minute winter	H8207	38	131.402	1.218	206.1	1.7432	0.0000	SURCHARGED
60 minute winter	H8206	38	131.055	1.295	216.6	1.8534	0.0000	SURCHARGED
60 minute winter	H8205	39	130.737	1.287	228.2	1.8418	0.0000	SURCHARGED
60 minute winter	H8204	39	130.444	1.294	225.9	1.8522	0.0000	SURCHARGED
60 minute winter	S7202	40	131.678	1.678	509.0	2.4009	0.0000	SURCHARGED
60 minute winter	S8208	39	130.762	1.332	509.3	1.9060	0.0000	SURCHARGED
60 minute winter	S8201	39	130.173	1.363	740.7	1.9508	0.0000	SURCHARGED
60 minute winter	S8203	39	128.583	0.563	740.5	0.8060	0.0000	SURCHARGED
60 minute winter	S7324	39	128.211	0.411	740.5	0.0000	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	H6808	1.000	H7801	8.4	0.830	0.152	0.2219	
60 minute winter	H7801	1.001	H7907	24.0	1.680	0.254	0.3364	
60 minute winter	H7907	1.002	H7908	50.3	2.718	0.400	1.0193	
60 minute winter	H7908	1.003	H7905	62.0	2.916	0.459	0.2922	
60 minute winter	H7905	1.004	H7906	73.4	3.131	0.543	0.5211	
60 minute winter	H7906	1.005	H8001	87.6	2.876	0.672	1.4749	
60 minute winter	H8001	1.006	H8002	111.2	3.079	1.008	1.8208	
60 minute winter	H8002	1.007	H8105	134.6	2.151	0.766	2.8813	
60 minute winter	H8105	1.008	H8103	147.5	2.094	1.093	2.4415	
60 minute winter	H8103	1.009	H8104	146.2	1.900	0.503	1.7911	
60 minute winter	H8104	1.010	H8207	176.1	1.948	0.837	8.8835	
60 minute winter	H8207	1.011	H8206	196.6	1.985	0.819	3.2609	
60 minute winter	H8206	1.012	H8205	214.2	2.051	0.885	2.3452	
60 minute winter	H8205	1.013	H8204	225.9	2.200	0.858	1.9159	
60 minute winter	H8204	1.014	S8201	223.5	2.027	0.751	1.7007	
60 minute winter	S7202	2.000	S8208	509.3	3.214	1.062	4.1206	
60 minute winter	S8208	2.001	S8201	510.2	3.220	0.726	2.0946	
60 minute winter	S8201	1.015	S8203	740.5	4.674	1.131	3.0698	
60 minute winter	S8203	1.016	S7324	740.5	2.410	1.007	5.2890	1557.1

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Results for 100 year +45% CC 120 minute summer. 1560 minute analysis at 2 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	H6808	64	145.045	0.058	8.0	0.0823	0.0000	OK
120 minute summer	H7801	64	144.816	0.075	23.0	0.1074	0.0000	OK
120 minute summer	H7907	64	144.062	0.094	46.6	0.1351	0.0000	OK
120 minute summer	H7908	64	140.895	0.109	57.1	0.1557	0.0000	OK
120 minute summer	H7905	64	139.986	0.117	67.3	0.1667	0.0000	OK
120 minute summer	H7906	64	138.511	0.127	80.4	0.1816	0.0000	OK
120 minute summer	H8001	64	135.522	0.179	101.2	0.2562	0.0000	OK
120 minute summer	H8002	64	133.310	0.183	123.3	0.2619	0.0000	OK
120 minute summer	H8105	66	132.288	0.287	135.9	0.4104	0.0000	OK
120 minute summer	H8103	66	131.621	0.205	133.8	0.2934	0.0000	OK
120 minute summer	H8104	66	131.349	0.274	171.3	0.3915	0.0000	OK
120 minute summer	H8207	68	130.885	0.701	200.0	1.0030	0.0000	SURCHARGED
120 minute summer	H8206	68	130.570	0.810	202.3	1.1588	0.0000	SURCHARGED
120 minute summer	H8205	68	130.281	0.831	210.8	1.1895	0.0000	SURCHARGED
120 minute summer	H8204	68	130.004	0.854	208.7	1.2214	0.0000	SURCHARGED
120 minute summer	S7202	70	130.917	0.917	450.1	1.3127	0.0000	SURCHARGED
120 minute summer	S8208	68	130.200	0.770	450.4	1.1021	0.0000	SURCHARGED
120 minute summer	S8201	68	129.747	0.937	671.7	1.3413	0.0000	SURCHARGED
120 minute summer	S8203	68	128.431	0.411	671.2	0.5875	0.0000	OK
120 minute summer	S7324	68	128.129	0.329	670.9	0.0000	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	H6808	1.000	H7801	8.0	0.818	0.145	0.2145	
120 minute summer	H7801	1.001	H7907	22.9	1.872	0.242	0.3211	
120 minute summer	H7907	1.002	H7908	46.6	2.679	0.371	0.9579	
120 minute summer	H7908	1.003	H7905	57.0	2.871	0.422	0.2730	
120 minute summer	H7905	1.004	H7906	67.3	3.074	0.498	0.4869	
120 minute summer	H7906	1.005	H8001	80.4	2.806	0.616	1.3902	
120 minute summer	H8001	1.006	H8002	101.0	3.075	0.916	1.5769	
120 minute summer	H8002	1.007	H8105	123.2	2.151	0.701	2.5829	
120 minute summer	H8105	1.008	H8103	133.8	2.096	0.991	2.3704	
120 minute summer	H8103	1.009	H8104	133.8	1.902	0.460	1.1998	
120 minute summer	H8104	1.010	H8207	173.5	1.947	0.824	7.9113	
120 minute summer	H8207	1.011	H8206	183.6	1.982	0.765	3.2609	
120 minute summer	H8206	1.012	H8205	198.0	2.038	0.819	2.3452	
120 minute summer	H8205	1.013	H8204	208.7	2.180	0.792	1.9159	
120 minute summer	H8204	1.014	S8201	207.4	2.048	0.696	1.7007	
120 minute summer	S7202	2.000	S8208	450.4	3.134	0.939	4.1206	
120 minute summer	S8208	2.001	S8201	451.0	3.090	0.642	2.0946	
120 minute summer	S8201	1.015	S8203	671.2	4.238	1.025	3.0046	
120 minute summer	S8203	1.016	S7324	670.9	2.409	0.913	4.7014	1955.3

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Results for 100 year +45% CC 120 minute winter. 1560 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	H6808	68	145.036	0.049	5.8	0.0702	0.0000	OK
120 minute winter	H7801	118	144.806	0.065	16.9	0.0934	0.0000	OK
120 minute winter	H7907	64	144.047	0.079	33.5	0.1129	0.0000	OK
120 minute winter	H7908	64	140.875	0.089	40.9	0.1276	0.0000	OK
120 minute winter	H7905	64	139.964	0.095	48.2	0.1362	0.0000	OK
120 minute winter	H7906	64	138.488	0.104	57.4	0.1486	0.0000	OK
120 minute winter	H8001	64	135.480	0.137	72.1	0.1962	0.0000	OK
120 minute winter	H8002	64	133.275	0.148	87.5	0.2119	0.0000	OK
120 minute winter	H8105	64	132.201	0.200	96.2	0.2856	0.0000	OK
120 minute winter	H8103	64	131.578	0.162	96.0	0.2321	0.0000	OK
120 minute winter	H8104	64	131.282	0.206	121.8	0.2955	0.0000	OK
120 minute winter	H8207	64	130.405	0.221	139.8	0.3167	0.0000	OK
120 minute winter	H8206	64	130.003	0.243	152.4	0.3474	0.0000	OK
120 minute winter	H8205	64	129.694	0.244	161.2	0.3487	0.0000	OK
120 minute winter	H8204	64	129.388	0.238	161.3	0.3403	0.0000	OK
120 minute winter	S7202	70	130.339	0.339	362.1	0.4845	0.0000	OK
120 minute winter	S8208	70	129.712	0.282	362.0	0.4031	0.0000	OK
120 minute winter	S8201	68	129.203	0.393	535.7	0.5628	0.0000	OK
120 minute winter	S8203	68	128.354	0.334	535.6	0.4781	0.0000	OK
120 minute winter	S7324	68	128.079	0.279	535.5	0.0000	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	H6808	1.000	H7801	5.8	0.745	0.105	0.1717	
120 minute winter	H7801	1.001	H7907	16.9	1.764	0.178	0.2542	
120 minute winter	H7907	1.002	H7908	33.4	2.475	0.266	0.7439	
120 minute winter	H7908	1.003	H7905	40.9	2.673	0.302	0.2101	
120 minute winter	H7905	1.004	H7906	48.1	2.844	0.356	0.3763	
120 minute winter	H7906	1.005	H8001	57.4	2.653	0.440	1.0548	
120 minute winter	H8001	1.006	H8002	71.9	2.910	0.652	1.1876	
120 minute winter	H8002	1.007	H8105	87.4	2.067	0.498	1.9113	
120 minute winter	H8105	1.008	H8103	96.0	2.017	0.711	1.6511	
120 minute winter	H8103	1.009	H8104	96.1	1.785	0.331	0.8752	
120 minute winter	H8104	1.010	H8207	121.5	1.874	0.577	5.2287	
120 minute winter	H8207	1.011	H8206	139.6	1.951	0.582	2.1159	
120 minute winter	H8206	1.012	H8205	152.4	2.016	0.630	1.6080	
120 minute winter	H8205	1.013	H8204	161.3	2.168	0.613	1.2980	
120 minute winter	H8204	1.014	S8201	161.5	1.938	0.542	1.4181	
120 minute winter	S7202	2.000	S8208	362.0	3.110	0.755	3.0212	
120 minute winter	S8208	2.001	S8201	361.9	2.943	0.515	1.6572	
120 minute winter	S8201	1.015	S8203	535.6	3.903	0.818	2.6462	
120 minute winter	S8203	1.016	S7324	535.5	2.329	0.728	3.9103	1898.4

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Results for 100 year +45% CC 180 minute summer. 1620 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	H6808	160	145.040	0.053	6.7	0.0754	0.0000	OK
180 minute summer	H7801	164	144.816	0.075	21.4	0.1076	0.0000	OK
180 minute summer	H7907	96	144.052	0.084	37.6	0.1202	0.0000	OK
180 minute summer	H7908	96	140.881	0.095	45.8	0.1363	0.0000	OK
180 minute summer	H7905	96	139.971	0.102	53.7	0.1453	0.0000	OK
180 minute summer	H7906	96	138.495	0.111	64.1	0.1584	0.0000	OK
180 minute summer	H8001	96	135.491	0.148	80.4	0.2119	0.0000	OK
180 minute summer	H8002	96	133.285	0.158	97.4	0.2258	0.0000	OK
180 minute summer	H8105	96	132.217	0.216	106.7	0.3093	0.0000	OK
180 minute summer	H8103	96	131.590	0.174	106.5	0.2484	0.0000	OK
180 minute summer	H8104	96	131.295	0.220	134.3	0.3148	0.0000	OK
180 minute summer	H8207	96	130.421	0.237	153.8	0.3395	0.0000	OK
180 minute summer	H8206	96	130.021	0.261	167.5	0.3737	0.0000	OK
180 minute summer	H8205	96	129.712	0.262	177.1	0.3748	0.0000	OK
180 minute summer	H8204	96	129.406	0.256	177.0	0.3657	0.0000	OK
180 minute summer	S7202	100	130.348	0.348	373.3	0.4973	0.0000	OK
180 minute summer	S8208	100	129.721	0.291	373.0	0.4167	0.0000	OK
180 minute summer	S8201	100	129.228	0.418	557.1	0.5981	0.0000	OK
180 minute summer	S8203	100	128.365	0.345	556.9	0.4931	0.0000	OK
180 minute summer	S7324	100	128.086	0.286	557.2	0.0000	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	H6808	1.000	H7801	6.7	0.767	0.122	0.2046	
180 minute summer	H7801	1.001	H7907	21.4	1.894	0.226	0.2790	
180 minute summer	H7907	1.002	H7908	37.6	2.553	0.299	0.8115	
180 minute summer	H7908	1.003	H7905	45.7	2.743	0.339	0.2290	
180 minute summer	H7905	1.004	H7906	53.7	2.920	0.397	0.4090	
180 minute summer	H7906	1.005	H8001	64.1	2.713	0.491	1.1502	
180 minute summer	H8001	1.006	H8002	80.3	2.975	0.728	1.2969	
180 minute summer	H8002	1.007	H8105	97.3	2.109	0.554	2.0805	
180 minute summer	H8105	1.008	H8103	106.5	2.052	0.789	1.7982	
180 minute summer	H8103	1.009	H8104	106.5	1.819	0.366	0.9503	
180 minute summer	H8104	1.010	H8207	134.1	1.907	0.637	5.6635	
180 minute summer	H8207	1.011	H8206	153.6	1.976	0.640	2.2973	
180 minute summer	H8206	1.012	H8205	167.4	2.040	0.692	1.7451	
180 minute summer	H8205	1.013	H8204	177.0	2.182	0.672	1.4088	
180 minute summer	H8204	1.014	S8201	176.5	1.973	0.593	1.4671	
180 minute summer	S7202	2.000	S8208	373.0	3.114	0.778	3.1192	
180 minute summer	S8208	2.001	S8201	372.9	2.949	0.531	1.7319	
180 minute summer	S8201	1.015	S8203	556.9	3.901	0.850	2.7491	
180 minute summer	S8203	1.016	S7324	557.2	2.347	0.758	4.0359	2190.4

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Results for 100 year +45% CC 180 minute winter. 1620 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	H6808	168	145.035	0.048	5.6	0.0690	0.0000	OK
180 minute winter	H7801	164	144.809	0.068	17.9	0.0975	0.0000	OK
180 minute winter	H7907	100	144.040	0.072	28.3	0.1034	0.0000	OK
180 minute winter	H7908	96	140.866	0.080	34.1	0.1150	0.0000	OK
180 minute winter	H7905	96	139.955	0.085	39.9	0.1223	0.0000	OK
180 minute winter	H7906	96	138.477	0.093	47.5	0.1336	0.0000	OK
180 minute winter	H8001	96	135.464	0.121	59.4	0.1730	0.0000	OK
180 minute winter	H8002	96	133.259	0.132	71.6	0.1888	0.0000	OK
180 minute winter	H8105	96	132.174	0.173	78.0	0.2469	0.0000	OK
180 minute winter	H8103	96	131.558	0.142	77.8	0.2032	0.0000	OK
180 minute winter	H8104	96	131.255	0.180	96.8	0.2572	0.0000	OK
180 minute winter	H8207	96	130.373	0.189	110.2	0.2703	0.0000	OK
180 minute winter	H8206	96	129.965	0.205	119.6	0.2931	0.0000	OK
180 minute winter	H8205	96	129.655	0.205	126.2	0.2935	0.0000	OK
180 minute winter	H8204	96	129.350	0.200	126.1	0.2865	0.0000	OK
180 minute winter	S7202	100	130.279	0.279	279.9	0.3998	0.0000	OK
180 minute winter	S8208	100	129.660	0.230	279.8	0.3286	0.0000	OK
180 minute winter	S8201	100	129.121	0.311	418.7	0.4455	0.0000	OK
180 minute winter	S8203	100	128.300	0.280	418.7	0.4003	0.0000	OK
180 minute winter	S7324	100	128.039	0.239	418.7	0.0000	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	H6808	1.000	H7801	5.6	0.720	0.102	0.1791	
180 minute winter	H7801	1.001	H7907	17.9	1.797	0.189	0.2336	
180 minute winter	H7907	1.002	H7908	28.3	2.388	0.225	0.6526	
180 minute winter	H7908	1.003	H7905	34.0	2.568	0.252	0.1822	
180 minute winter	H7905	1.004	H7906	39.9	2.716	0.295	0.3266	
180 minute winter	H7906	1.005	H8001	47.4	2.546	0.363	0.9100	
180 minute winter	H8001	1.006	H8002	59.3	2.788	0.537	1.0217	
180 minute winter	H8002	1.007	H8105	71.5	1.992	0.407	1.6249	
180 minute winter	H8105	1.008	H8103	77.8	1.930	0.576	1.3972	
180 minute winter	H8103	1.009	H8104	77.7	1.725	0.268	0.7339	
180 minute winter	H8104	1.010	H8207	96.7	1.794	0.459	4.3395	
180 minute winter	H8207	1.011	H8206	110.0	1.878	0.458	1.7316	
180 minute winter	H8206	1.012	H8205	119.5	1.940	0.494	1.3099	
180 minute winter	H8205	1.013	H8204	126.1	2.076	0.479	1.0551	
180 minute winter	H8204	1.014	S8201	126.0	1.879	0.423	1.2134	
180 minute winter	S7202	2.000	S8208	279.8	3.027	0.583	2.4017	
180 minute winter	S8208	2.001	S8201	279.7	2.822	0.398	1.3108	
180 minute winter	S8201	1.015	S8203	418.7	3.795	0.639	2.1365	
180 minute winter	S8203	1.016	S7324	418.7	2.216	0.570	3.2198	2129.6

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Results for 100 year +45% CC 240 minute summer. 1680 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	H6808	192	145.040	0.053	6.7	0.0754	0.0000	OK
240 minute summer	H7801	192	144.816	0.075	21.4	0.1076	0.0000	OK
240 minute summer	H7907	124	144.046	0.078	32.9	0.1117	0.0000	OK
240 minute summer	H7908	124	140.874	0.088	39.7	0.1253	0.0000	OK
240 minute summer	H7905	124	139.962	0.093	46.6	0.1336	0.0000	OK
240 minute summer	H7906	124	138.486	0.102	55.4	0.1454	0.0000	OK
240 minute summer	H8001	124	135.476	0.133	69.4	0.1907	0.0000	OK
240 minute summer	H8002	124	133.271	0.144	83.6	0.2061	0.0000	OK
240 minute summer	H8105	124	132.193	0.192	91.3	0.2741	0.0000	OK
240 minute summer	H8103	124	131.572	0.156	90.5	0.2235	0.0000	OK
240 minute summer	H8104	124	131.273	0.198	113.9	0.2831	0.0000	OK
240 minute summer	H8207	124	130.394	0.210	129.7	0.3000	0.0000	OK
240 minute summer	H8206	124	129.988	0.228	140.4	0.3269	0.0000	OK
240 minute summer	H8205	124	129.679	0.229	148.0	0.3277	0.0000	OK
240 minute summer	H8204	124	129.377	0.227	148.0	0.3249	0.0000	OK
240 minute summer	S7202	132	130.306	0.306	317.9	0.4376	0.0000	OK
240 minute summer	S8208	132	129.683	0.253	317.9	0.3617	0.0000	OK
240 minute summer	S8201	128	129.161	0.351	481.9	0.5026	0.0000	OK
240 minute summer	S8203	128	128.329	0.309	481.6	0.4416	0.0000	OK
240 minute summer	S7324	128	128.060	0.260	481.5	0.0000	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	H6808	1.000	H7801	6.7	0.742	0.121	0.2045	
240 minute summer	H7801	1.001	H7907	21.4	1.895	0.226	0.2649	
240 minute summer	H7907	1.002	H7908	32.7	2.472	0.261	0.7295	
240 minute summer	H7908	1.003	H7905	39.6	2.654	0.293	0.2049	
240 minute summer	H7905	1.004	H7906	46.5	2.822	0.344	0.3662	
240 minute summer	H7906	1.005	H8001	55.2	2.635	0.423	1.0220	
240 minute summer	H8001	1.006	H8002	68.9	2.883	0.625	1.1482	
240 minute summer	H8002	1.007	H8105	83.3	2.057	0.474	1.8319	
240 minute summer	H8105	1.008	H8103	90.5	1.992	0.671	1.5760	
240 minute summer	H8103	1.009	H8104	90.4	1.775	0.311	0.8310	
240 minute summer	H8104	1.010	H8207	113.1	1.852	0.537	4.9240	
240 minute summer	H8207	1.011	H8206	128.7	1.931	0.537	1.9750	
240 minute summer	H8206	1.012	H8205	140.1	1.993	0.579	1.4964	
240 minute summer	H8205	1.013	H8204	148.0	2.119	0.562	1.2181	
240 minute summer	H8204	1.014	S8201	148.3	1.893	0.498	1.3617	
240 minute summer	S7202	2.000	S8208	317.9	3.076	0.663	2.6833	
240 minute summer	S8208	2.001	S8201	317.9	2.887	0.453	1.4831	
240 minute summer	S8201	1.015	S8203	481.6	3.868	0.735	2.4084	
240 minute summer	S8203	1.016	S7324	481.5	2.281	0.655	3.5940	2379.6

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Results for 100 year +45% CC 240 minute winter. 1680 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 winter	H6808	188	145.035	0.048	5.6	0.0689	0.0000	OK
240 minute winter	H7801	196	144.809	0.068	17.8	0.0973	0.0000	OK
240 minute winter	H7907	136	144.037	0.069	25.8	0.0985	0.0000	OK
240 minute winter	H7908	132	140.862	0.076	30.7	0.1086	0.0000	OK
240 minute winter	H7905	132	139.949	0.080	35.6	0.1149	0.0000	OK
240 minute winter	H7906	132	138.472	0.088	42.2	0.1254	0.0000	OK
240 minute winter	H8001	132	135.456	0.113	52.7	0.1610	0.0000	OK
240 minute winter	H8002	132	133.250	0.123	63.0	0.1761	0.0000	OK
240 minute winter	H8105	132	132.159	0.158	68.1	0.2266	0.0000	OK
240 minute winter	H8103	132	131.547	0.131	68.1	0.1875	0.0000	OK
240 minute winter	H8104	128	131.240	0.165	83.4	0.2360	0.0000	OK
240 minute winter	H8207	128	130.355	0.171	94.2	0.2453	0.0000	OK
240 minute winter	H8206	128	129.945	0.185	101.8	0.2642	0.0000	OK
240 minute winter	H8205	128	129.635	0.185	107.2	0.2641	0.0000	OK
240 minute winter	H8204	128	129.326	0.176	107.2	0.2518	0.0000	OK
240 minute winter	S7202	132	130.245	0.245	229.7	0.3509	0.0000	OK
240 minute winter	S8208	132	129.630	0.200	229.7	0.2862	0.0000	OK
240 minute winter	S8201	128	129.081	0.271	348.2	0.3880	0.0000	OK
240 minute winter	S8203	128	128.268	0.248	348.1	0.3542	0.0000	OK
240 minute winter	S7324	128	128.014	0.214	347.9	0.0000	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	H6808	1.000	H7801	5.6	0.700	0.102	0.1787	
240 minute winter	H7801	1.001	H7907	17.8	1.800	0.188	0.2320	
240 minute winter	H7907	1.002	H7908	25.8	2.346	0.205	0.6060	
240 minute winter	H7908	1.003	H7905	30.6	2.508	0.227	0.1679	
240 minute winter	H7905	1.004	H7906	35.6	2.642	0.264	0.3000	
240 minute winter	H7906	1.005	H8001	42.2	2.479	0.324	0.8331	
240 minute winter	H8001	1.006	H8002	52.7	2.713	0.478	0.9344	
240 minute winter	H8002	1.007	H8105	63.0	1.944	0.359	1.4694	
240 minute winter	H8105	1.008	H8103	68.1	1.874	0.504	1.2596	
240 minute winter	H8103	1.009	H8104	68.1	1.689	0.234	0.6565	
240 minute winter	H8104	1.010	H8207	83.3	1.742	0.396	3.8538	
240 minute winter	H8207	1.011	H8206	94.1	1.827	0.392	1.5235	
240 minute winter	H8206	1.012	H8205	101.8	1.885	0.421	1.1479	
240 minute winter	H8205	1.013	H8204	107.2	2.047	0.407	0.9096	
240 minute winter	H8204	1.014	S8201	107.1	1.803	0.360	1.0490	
240 minute winter	S7202	2.000	S8208	229.7	2.939	0.479	2.0328	
240 minute winter	S8208	2.001	S8201	229.7	2.739	0.327	1.1090	
240 minute winter	S8201	1.015	S8203	348.1	3.681	0.531	1.8319	
240 minute winter	S8203	1.016	S7324	347.9	2.127	0.473	2.7886	2319.5

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Results for 100 year +45% CC 360 minute summer. 1800 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	H6808	256	145.039	0.052	6.5	0.0743	0.0000	OK
360 minute summer	H7801	256	144.815	0.074	20.9	0.1062	0.0000	OK
360 minute summer	H7907	184	144.040	0.072	28.3	0.1033	0.0000	OK
360 minute summer	H7908	184	140.866	0.080	33.9	0.1145	0.0000	OK
360 minute summer	H7905	184	139.954	0.085	39.4	0.1215	0.0000	OK
360 minute summer	H7906	184	138.477	0.093	46.9	0.1325	0.0000	OK
360 minute summer	H8001	184	135.462	0.119	58.4	0.1708	0.0000	OK
360 minute summer	H8002	184	133.257	0.130	69.8	0.1861	0.0000	OK
360 minute summer	H8105	184	132.170	0.169	75.6	0.2413	0.0000	OK
360 minute summer	H8103	184	131.555	0.139	75.0	0.1988	0.0000	OK
360 minute summer	H8104	184	131.250	0.175	92.6	0.2504	0.0000	OK
360 minute summer	H8207	184	130.366	0.182	104.6	0.2610	0.0000	OK
360 minute summer	H8206	184	129.957	0.197	112.8	0.2818	0.0000	OK
360 minute summer	H8205	184	129.647	0.197	118.5	0.2815	0.0000	OK
360 minute summer	H8204	184	129.338	0.188	118.2	0.2697	0.0000	OK
360 minute summer	S7202	192	130.257	0.257	246.9	0.3676	0.0000	OK
360 minute summer	S8208	192	129.640	0.210	246.8	0.3006	0.0000	OK
360 minute summer	S8201	192	129.094	0.284	371.9	0.4069	0.0000	OK
360 minute summer	S8203	192	128.278	0.258	371.9	0.3698	0.0000	OK
360 minute summer	S7324	192	128.022	0.222	372.0	0.0000	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	H6808	1.000	H7801	6.5	0.717	0.118	0.2006	
360 minute summer	H7801	1.001	H7907	20.9	1.880	0.221	0.2608	
360 minute summer	H7907	1.002	H7908	28.2	2.435	0.224	0.6501	
360 minute summer	H7908	1.003	H7905	33.7	2.563	0.250	0.1809	
360 minute summer	H7905	1.004	H7906	39.4	2.708	0.291	0.3233	
360 minute summer	H7906	1.005	H8001	46.7	2.543	0.358	0.8973	
360 minute summer	H8001	1.006	H8002	58.0	2.773	0.526	1.0051	
360 minute summer	H8002	1.007	H8105	69.6	1.988	0.396	1.5857	
360 minute summer	H8105	1.008	H8103	75.0	1.913	0.556	1.3586	
360 minute summer	H8103	1.009	H8104	74.9	1.716	0.258	0.7102	
360 minute summer	H8104	1.010	H8207	92.0	1.778	0.437	4.1701	
360 minute summer	H8207	1.011	H8206	103.9	1.859	0.433	1.6521	
360 minute summer	H8206	1.012	H8205	112.3	1.918	0.464	1.2452	
360 minute summer	H8205	1.013	H8204	118.2	2.075	0.449	0.9897	
360 minute summer	H8204	1.014	S8201	117.9	1.871	0.396	1.1142	
360 minute summer	S7202	2.000	S8208	246.8	2.972	0.515	2.1587	
360 minute summer	S8208	2.001	S8201	246.7	2.766	0.351	1.1772	
360 minute summer	S8201	1.015	S8203	371.9	3.723	0.568	1.9349	
360 minute summer	S8203	1.016	S7324	372.0	2.160	0.506	2.9362	2656.7

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Results for 100 year +45% CC 360 minute winter. 1800 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 winter	H6808	240	145.036	0.049	5.7	0.0695	0.0000	OK
360 minute winter	H7801	240	144.809	0.068	18.1	0.0977	0.0000	OK
360 minute winter	H7907	240	144.036	0.068	25.4	0.0978	0.0000	OK
360 minute winter	H7908	224	140.860	0.074	29.2	0.1058	0.0000	OK
360 minute winter	H7905	224	139.947	0.078	33.4	0.1109	0.0000	OK
360 minute winter	H7906	224	138.468	0.084	39.3	0.1206	0.0000	OK
360 minute winter	H8001	216	135.450	0.107	48.4	0.1530	0.0000	OK
360 minute winter	H8002	216	133.243	0.116	56.5	0.1659	0.0000	OK
360 minute winter	H8105	208	132.147	0.146	59.8	0.2092	0.0000	OK
360 minute winter	H8103	208	131.538	0.122	59.8	0.1740	0.0000	OK
360 minute winter	H8104	200	131.225	0.150	70.3	0.2148	0.0000	OK
360 minute winter	H8207	192	130.337	0.153	78.0	0.2194	0.0000	OK
360 minute winter	H8206	192	129.924	0.164	83.6	0.2340	0.0000	OK
360 minute winter	H8205	192	129.613	0.163	87.5	0.2333	0.0000	OK
360 minute winter	H8204	192	129.302	0.152	87.4	0.2173	0.0000	OK
360 minute winter	S7202	192	130.205	0.205	171.9	0.2937	0.0000	OK
360 minute winter	S8208	192	129.596	0.165	171.9	0.2368	0.0000	OK
360 minute winter	S8201	192	129.037	0.227	267.8	0.3247	0.0000	OK
360 minute winter	S8203	192	128.230	0.210	267.7	0.3005	0.0000	OK
360 minute winter	S7324	192	127.985	0.185	267.7	0.0000	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	H6808	1.000	H7801	5.7	0.698	0.103	0.1802	
360 minute winter	H7801	1.001	H7907	18.1	1.791	0.191	0.2385	
360 minute winter	H7907	1.002	H7908	25.4	2.372	0.202	0.5922	
360 minute winter	H7908	1.003	H7905	29.2	2.490	0.216	0.1610	
360 minute winter	H7905	1.004	H7906	33.4	2.603	0.247	0.2851	
360 minute winter	H7906	1.005	H8001	39.3	2.448	0.301	0.7842	
360 minute winter	H8001	1.006	H8002	48.4	2.657	0.439	0.8761	
360 minute winter	H8002	1.007	H8105	56.5	1.917	0.322	1.3400	
360 minute winter	H8105	1.008	H8103	59.8	1.818	0.443	1.1410	
360 minute winter	H8103	1.009	H8104	59.8	1.677	0.206	0.5846	
360 minute winter	H8104	1.010	H8207	70.3	1.684	0.334	3.3597	
360 minute winter	H8207	1.011	H8206	78.0	1.765	0.325	1.3077	
360 minute winter	H8206	1.012	H8205	83.6	1.816	0.345	0.9786	
360 minute winter	H8205	1.013	H8204	87.4	1.994	0.332	0.7621	
360 minute winter	H8204	1.014	S8201	87.4	1.756	0.294	0.8599	
360 minute winter	S7202	2.000	S8208	171.9	2.793	0.358	1.6023	
360 minute winter	S8208	2.001	S8201	171.8	2.590	0.245	0.8787	
360 minute winter	S8201	1.015	S8203	267.7	3.510	0.409	1.4784	
360 minute winter	S8203	1.016	S7324	267.7	2.003	0.364	2.2795	2607.4

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Results for 100 year +45% CC 480 minute summer. 1920 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
480 minute summer	H6808	312	145.038	0.051	6.3	0.0731	0.0000	OK
480 minute summer	H7801	312	144.814	0.073	20.1	0.1038	0.0000	OK
480 minute summer	H7907	312	144.039	0.071	26.9	0.1009	0.0000	OK
480 minute summer	H7908	304	140.861	0.075	30.2	0.1079	0.0000	OK
480 minute summer	H7905	304	139.948	0.079	34.2	0.1124	0.0000	OK
480 minute summer	H7906	248	138.470	0.085	40.4	0.1223	0.0000	OK
480 minute summer	H8001	248	135.452	0.109	50.3	0.1564	0.0000	OK
480 minute summer	H8002	248	133.247	0.120	59.9	0.1712	0.0000	OK
480 minute summer	H8105	248	132.154	0.153	64.6	0.2190	0.0000	OK
480 minute summer	H8103	248	131.543	0.127	64.4	0.1815	0.0000	OK
480 minute summer	H8104	248	131.234	0.159	78.4	0.2280	0.0000	OK
480 minute summer	H8207	248	130.349	0.165	88.2	0.2357	0.0000	OK
480 minute summer	H8206	248	129.937	0.177	95.1	0.2531	0.0000	OK
480 minute summer	H8205	248	129.627	0.177	99.9	0.2528	0.0000	OK
480 minute summer	H8204	248	129.317	0.167	99.9	0.2385	0.0000	OK
480 minute summer	S7202	248	130.229	0.228	205.2	0.3270	0.0000	OK
480 minute summer	S8208	248	129.615	0.185	205.1	0.2653	0.0000	OK
480 minute summer	S8201	248	129.063	0.253	315.2	0.3619	0.0000	OK
480 minute summer	S8203	248	128.252	0.232	314.9	0.3323	0.0000	OK
480 minute summer	S7324	248	128.002	0.202	314.7	0.0000	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	H6808	1.000	H7801	6.3	0.712	0.114	0.1951	
480 minute summer	H7801	1.001	H7907	20.1	1.856	0.212	0.2543	
480 minute summer	H7907	1.002	H7908	26.9	2.417	0.214	0.6129	
480 minute summer	H7908	1.003	H7905	30.2	2.517	0.223	0.1646	
480 minute summer	H7905	1.004	H7906	34.1	2.623	0.253	0.2900	
480 minute summer	H7906	1.005	H8001	40.3	2.469	0.309	0.8037	
480 minute summer	H8001	1.006	H8002	50.2	2.680	0.455	0.9005	
480 minute summer	H8002	1.007	H8105	59.9	1.930	0.341	1.4111	
480 minute summer	H8105	1.008	H8103	64.4	1.850	0.477	1.2079	
480 minute summer	H8103	1.009	H8104	64.4	1.697	0.222	0.6279	
480 minute summer	H8104	1.010	H8207	78.3	1.718	0.372	3.6699	
480 minute summer	H8207	1.011	H8206	88.1	1.804	0.367	1.4437	
480 minute summer	H8206	1.012	H8205	95.0	1.861	0.393	1.0857	
480 minute summer	H8205	1.013	H8204	99.9	2.032	0.379	0.8540	
480 minute summer	H8204	1.014	S8201	99.8	1.844	0.335	0.9742	
480 minute summer	S7202	2.000	S8208	205.1	2.883	0.428	1.8511	
480 minute summer	S8208	2.001	S8201	204.8	2.683	0.292	1.0131	
480 minute summer	S8201	1.015	S8203	314.9	3.615	0.481	1.6876	
480 minute summer	S8203	1.016	S7324	314.7	2.079	0.428	2.5811	2878.4

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Results for 100 year +45% CC 480 minute winter. 1920 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
480 minute winter	H6808	320	145.034	0.047	5.3	0.0671	0.0000	OK
480 minute winter	H7801	320	144.807	0.066	16.7	0.0938	0.0000	OK
480 minute winter	H7907	312	144.034	0.066	23.4	0.0938	0.0000	OK
480 minute winter	H7908	296	140.857	0.071	26.8	0.1010	0.0000	OK
480 minute winter	H7905	296	139.943	0.074	30.5	0.1056	0.0000	OK
480 minute winter	H7906	296	138.464	0.080	35.8	0.1147	0.0000	OK
480 minute winter	H8001	296	135.444	0.101	44.0	0.1446	0.0000	OK
480 minute winter	H8002	288	133.237	0.110	51.0	0.1569	0.0000	OK
480 minute winter	H8105	280	132.138	0.137	53.4	0.1954	0.0000	OK
480 minute winter	H8103	288	131.530	0.114	53.4	0.1630	0.0000	OK
480 minute winter	H8104	264	131.215	0.140	61.4	0.1996	0.0000	OK
480 minute winter	H8207	264	130.325	0.141	67.5	0.2020	0.0000	OK
480 minute winter	H8206	256	129.910	0.150	71.9	0.2140	0.0000	OK
480 minute winter	H8205	256	129.599	0.149	75.1	0.2132	0.0000	OK
480 minute winter	H8204	256	129.287	0.137	75.0	0.1965	0.0000	OK
480 minute winter	S7202	248	130.182	0.182	139.3	0.2599	0.0000	OK
480 minute winter	S8208	248	129.575	0.145	139.3	0.2079	0.0000	OK
480 minute winter	S8201	256	129.011	0.201	220.5	0.2871	0.0000	OK
480 minute winter	S8203	256	128.207	0.187	220.5	0.2674	0.0000	OK
480 minute winter	S7324	256	127.966	0.166	220.5	0.0000	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	H6808	1.000	H7801	5.3	0.686	0.096	0.1706	
480 minute winter	H7801	1.001	H7907	16.7	1.752	0.176	0.2248	
480 minute winter	H7907	1.002	H7908	23.4	2.323	0.186	0.5566	
480 minute winter	H7908	1.003	H7905	26.8	2.441	0.198	0.1506	
480 minute winter	H7905	1.004	H7906	30.5	2.543	0.225	0.2664	
480 minute winter	H7906	1.005	H8001	35.8	2.394	0.274	0.7306	
480 minute winter	H8001	1.006	H8002	44.0	2.593	0.399	0.8149	
480 minute winter	H8002	1.007	H8105	50.9	1.875	0.290	1.2335	
480 minute winter	H8105	1.008	H8103	53.4	1.768	0.396	1.0469	
480 minute winter	H8103	1.009	H8104	53.4	1.644	0.184	0.5312	
480 minute winter	H8104	1.010	H8207	61.4	1.636	0.292	3.0285	
480 minute winter	H8207	1.011	H8206	67.5	1.714	0.282	1.1655	
480 minute winter	H8206	1.012	H8205	71.9	1.761	0.297	0.8687	
480 minute winter	H8205	1.013	H8204	75.0	1.943	0.285	0.6711	
480 minute winter	H8204	1.014	S8201	75.0	1.705	0.252	0.7440	
480 minute winter	S7202	2.000	S8208	139.3	2.680	0.290	1.3538	
480 minute winter	S8208	2.001	S8201	139.2	2.483	0.198	0.7437	
480 minute winter	S8201	1.015	S8203	220.5	3.378	0.337	1.2646	
480 minute winter	S8203	1.016	S7324	220.5	1.913	0.300	1.9660	2817.0

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Results for 100 year +45% CC 600 minute summer. 2040 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
600 minute summer	H6808	375	145.037	0.050	6.1	0.0719	0.0000	OK
600 minute summer	H7801	375	144.812	0.071	19.4	0.1017	0.0000	OK
600 minute summer	H7907	375	144.038	0.070	26.4	0.0999	0.0000	OK
600 minute summer	H7908	375	140.861	0.075	29.7	0.1069	0.0000	OK
600 minute summer	H7905	375	139.947	0.078	33.6	0.1113	0.0000	OK
600 minute summer	H7906	375	138.468	0.084	39.3	0.1205	0.0000	OK
600 minute summer	H8001	360	135.449	0.106	48.0	0.1522	0.0000	OK
600 minute summer	H8002	360	133.241	0.114	55.2	0.1637	0.0000	OK
600 minute summer	H8105	315	132.144	0.143	58.0	0.2051	0.0000	OK
600 minute summer	H8103	315	131.535	0.119	57.8	0.1704	0.0000	OK
600 minute summer	H8104	315	131.224	0.149	69.2	0.2127	0.0000	OK
600 minute summer	H8207	315	130.336	0.152	77.2	0.2179	0.0000	OK
600 minute summer	H8206	315	129.923	0.162	82.7	0.2325	0.0000	OK
600 minute summer	H8205	315	129.612	0.162	86.7	0.2320	0.0000	OK
600 minute summer	H8204	315	129.301	0.151	86.6	0.2160	0.0000	OK
600 minute summer	S7202	315	130.205	0.205	171.9	0.2937	0.0000	OK
600 minute summer	S8208	315	129.596	0.165	171.8	0.2368	0.0000	OK
600 minute summer	S8201	315	129.037	0.226	267.0	0.3241	0.0000	OK
600 minute summer	S8203	315	128.230	0.210	266.9	0.2999	0.0000	OK
600 minute summer	S7324	315	127.984	0.184	266.8	0.0000	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	H6808	1.000	H7801	6.1	0.708	0.111	0.1900	
600 minute summer	H7801	1.001	H7907	19.4	1.835	0.205	0.2488	
600 minute summer	H7907	1.002	H7908	26.4	2.401	0.210	0.6051	
600 minute summer	H7908	1.003	H7905	29.7	2.507	0.220	0.1626	
600 minute summer	H7905	1.004	H7906	33.6	2.612	0.248	0.2858	
600 minute summer	H7906	1.005	H8001	39.3	2.459	0.301	0.7806	
600 minute summer	H8001	1.006	H8002	48.0	2.650	0.435	0.8698	
600 minute summer	H8002	1.007	H8105	55.1	1.920	0.314	1.3030	
600 minute summer	H8105	1.008	H8103	57.8	1.802	0.428	1.1123	
600 minute summer	H8103	1.009	H8104	57.8	1.687	0.199	0.5738	
600 minute summer	H8104	1.010	H8207	69.1	1.673	0.328	3.3256	
600 minute summer	H8207	1.011	H8206	77.0	1.757	0.321	1.2964	
600 minute summer	H8206	1.012	H8205	82.7	1.810	0.342	0.9711	
600 minute summer	H8205	1.013	H8204	86.6	1.990	0.329	0.7563	
600 minute summer	H8204	1.014	S8201	86.6	1.816	0.291	0.8560	
600 minute summer	S7202	2.000	S8208	171.8	2.793	0.358	1.6022	
600 minute summer	S8208	2.001	S8201	171.8	2.593	0.245	0.8774	
600 minute summer	S8201	1.015	S8203	266.9	3.507	0.407	1.4746	
600 minute summer	S8203	1.016	S7324	266.8	2.001	0.363	2.2736	3046.6

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Results for 100 year +45% CC 600 minute winter. 2040 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
600 minute winter	H6808	390	145.032	0.045	4.9	0.0646	0.0000	OK
600 minute winter	H7801	390	144.804	0.063	15.5	0.0901	0.0000	OK
600 minute winter	H7907	375	144.031	0.063	21.7	0.0902	0.0000	OK
600 minute winter	H7908	360	140.854	0.068	24.9	0.0970	0.0000	OK
600 minute winter	H7905	360	139.940	0.071	28.4	0.1015	0.0000	OK
600 minute winter	H7906	360	138.461	0.077	33.4	0.1106	0.0000	OK
600 minute winter	H8001	360	135.440	0.097	41.0	0.1388	0.0000	OK
600 minute winter	H8002	360	133.233	0.105	47.4	0.1509	0.0000	OK
600 minute winter	H8105	360	132.132	0.131	49.5	0.1869	0.0000	OK
600 minute winter	H8103	360	131.525	0.109	49.4	0.1562	0.0000	OK
600 minute winter	H8104	345	131.208	0.133	56.0	0.1901	0.0000	OK
600 minute winter	H8207	345	130.317	0.133	60.8	0.1905	0.0000	OK
600 minute winter	H8206	330	129.900	0.140	64.4	0.2008	0.0000	OK
600 minute winter	H8205	330	129.590	0.140	67.0	0.1997	0.0000	OK
600 minute winter	H8204	330	129.278	0.128	67.0	0.1831	0.0000	OK
600 minute winter	S7202	315	130.165	0.165	117.5	0.2361	0.0000	OK
600 minute winter	S8208	315	129.561	0.131	117.5	0.1877	0.0000	OK
600 minute winter	S8201	315	128.993	0.183	189.2	0.2617	0.0000	OK
600 minute winter	S8203	315	128.191	0.171	189.2	0.2445	0.0000	OK
600 minute winter	S7324	315	127.953	0.153	189.1	0.0000	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	H6808	1.000	H7801	4.9	0.673	0.089	0.1613	
600 minute winter	H7801	1.001	H7907	15.5	1.713	0.164	0.2124	
600 minute winter	H7907	1.002	H7908	21.7	2.274	0.173	0.5269	
600 minute winter	H7908	1.003	H7905	24.9	2.397	0.184	0.1426	
600 minute winter	H7905	1.004	H7906	28.4	2.495	0.210	0.2530	
600 minute winter	H7906	1.005	H8001	33.4	2.353	0.256	0.6936	
600 minute winter	H8001	1.006	H8002	41.0	2.547	0.371	0.7729	
600 minute winter	H8002	1.007	H8105	47.4	1.841	0.269	1.1662	
600 minute winter	H8105	1.008	H8103	49.4	1.735	0.366	0.9884	
600 minute winter	H8103	1.009	H8104	49.4	1.615	0.170	0.4986	
600 minute winter	H8104	1.010	H8207	56.0	1.603	0.266	2.8156	
600 minute winter	H8207	1.011	H8206	60.8	1.678	0.254	1.0721	
600 minute winter	H8206	1.012	H8205	64.4	1.720	0.266	0.7963	
600 minute winter	H8205	1.013	H8204	67.0	1.901	0.254	0.6121	
600 minute winter	H8204	1.014	S8201	67.0	1.671	0.225	0.6630	
600 minute winter	S7202	2.000	S8208	117.5	2.589	0.245	1.1832	
600 minute winter	S8208	2.001	S8201	117.5	2.394	0.167	0.6530	
600 minute winter	S8201	1.015	S8203	189.2	3.274	0.289	1.1198	
600 minute winter	S8203	1.016	S7324	189.1	1.842	0.257	1.7512	2980.9

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Results for 100 year +45% CC 720 minute summer. 2160 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
720 minute summer	H6808	435	145.037	0.049	5.9	0.0708	0.0000	OK
720 minute summer	H7801	435	144.811	0.070	18.8	0.0999	0.0000	OK
720 minute summer	H7907	435	144.037	0.069	25.8	0.0986	0.0000	OK
720 minute summer	H7908	435	140.860	0.074	29.1	0.1057	0.0000	OK
720 minute summer	H7905	435	139.946	0.077	32.9	0.1100	0.0000	OK
720 minute summer	H7906	435	138.467	0.083	38.5	0.1192	0.0000	OK
720 minute summer	H8001	435	135.448	0.105	47.0	0.1502	0.0000	OK
720 minute summer	H8002	435	133.240	0.113	53.6	0.1613	0.0000	OK
720 minute summer	H8105	420	132.141	0.140	55.4	0.1997	0.0000	OK
720 minute summer	H8103	420	131.533	0.116	55.3	0.1667	0.0000	OK
720 minute summer	H8104	375	131.217	0.142	63.8	0.2036	0.0000	OK
720 minute summer	H8207	375	130.329	0.145	70.8	0.2073	0.0000	OK
720 minute summer	H8206	375	129.914	0.154	75.8	0.2207	0.0000	OK
720 minute summer	H8205	375	129.604	0.154	79.2	0.2201	0.0000	OK
720 minute summer	H8204	375	129.292	0.142	79.2	0.2035	0.0000	OK
720 minute summer	S7202	375	130.191	0.191	152.5	0.2738	0.0000	OK
720 minute summer	S8208	375	129.584	0.154	152.4	0.2198	0.0000	OK
720 minute summer	S8201	375	129.021	0.211	239.2	0.3021	0.0000	OK
720 minute summer	S8203	375	128.216	0.196	239.1	0.2806	0.0000	OK
720 minute summer	S7324	375	127.974	0.173	239.0	0.0000	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	H6808	1.000	H7801	5.9	0.702	0.107	0.1854	
720 minute summer	H7801	1.001	H7907	18.8	1.813	0.198	0.2436	
720 minute summer	H7907	1.002	H7908	25.8	2.385	0.205	0.5953	
720 minute summer	H7908	1.003	H7905	29.1	2.495	0.215	0.1600	
720 minute summer	H7905	1.004	H7906	32.9	2.597	0.243	0.2814	
720 minute summer	H7906	1.005	H8001	38.5	2.445	0.295	0.7688	
720 minute summer	H8001	1.006	H8002	46.9	2.636	0.426	0.8560	
720 minute summer	H8002	1.007	H8105	53.6	1.911	0.305	1.2729	
720 minute summer	H8105	1.008	H8103	55.3	1.784	0.410	1.0755	
720 minute summer	H8103	1.009	H8104	55.3	1.678	0.190	0.5410	
720 minute summer	H8104	1.010	H8207	63.7	1.646	0.303	3.1231	
720 minute summer	H8207	1.011	H8206	70.7	1.726	0.295	1.2113	
720 minute summer	H8206	1.012	H8205	75.7	1.778	0.313	0.9058	
720 minute summer	H8205	1.013	H8204	79.2	1.961	0.301	0.7017	
720 minute summer	H8204	1.014	S8201	79.1	1.788	0.266	0.7876	
720 minute summer	S7202	2.000	S8208	152.4	2.729	0.318	1.4553	
720 minute summer	S8208	2.001	S8201	152.4	2.531	0.217	0.7981	
720 minute summer	S8201	1.015	S8203	239.1	3.433	0.365	1.3496	
720 minute summer	S8203	1.016	S7324	239.0	1.950	0.325	2.0907	3191.5

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Results for 100 year +45% CC 720 minute winter. 2160 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
720 minute winter	H6808	450	145.031	0.044	4.6	0.0626	0.0000	OK
720 minute winter	H7801	450	144.802	0.061	14.5	0.0869	0.0000	OK
720 minute winter	H7907	435	144.029	0.061	20.4	0.0874	0.0000	OK
720 minute winter	H7908	435	140.851	0.065	23.2	0.0934	0.0000	OK
720 minute winter	H7905	435	139.937	0.068	26.4	0.0976	0.0000	OK
720 minute winter	H7906	435	138.458	0.074	31.0	0.1064	0.0000	OK
720 minute winter	H8001	420	135.436	0.093	38.1	0.1331	0.0000	OK
720 minute winter	H8002	420	133.229	0.101	44.0	0.1452	0.0000	OK
720 minute winter	H8105	420	132.126	0.125	45.9	0.1790	0.0000	OK
720 minute winter	H8103	420	131.521	0.105	45.9	0.1497	0.0000	OK
720 minute winter	H8104	420	131.202	0.127	51.5	0.1819	0.0000	OK
720 minute winter	H8207	405	130.311	0.127	55.6	0.1812	0.0000	OK
720 minute winter	H8206	405	129.893	0.133	58.7	0.1904	0.0000	OK
720 minute winter	H8205	390	129.582	0.132	60.9	0.1892	0.0000	OK
720 minute winter	H8204	390	129.271	0.121	60.9	0.1729	0.0000	OK
720 minute winter	S7202	375	130.153	0.153	102.5	0.2190	0.0000	OK
720 minute winter	S8208	375	129.551	0.121	102.5	0.1732	0.0000	OK
720 minute winter	S8201	375	128.980	0.170	167.4	0.2433	0.0000	OK
720 minute winter	S8203	375	128.179	0.159	167.4	0.2278	0.0000	OK
720 minute winter	S7324	375	127.944	0.144	167.4	0.0000	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	H6808	1.000	H7801	4.6	0.663	0.084	0.1538	
720 minute winter	H7801	1.001	H7907	14.5	1.678	0.153	0.2029	
720 minute winter	H7907	1.002	H7908	20.4	2.238	0.162	0.5020	
720 minute winter	H7908	1.003	H7905	23.2	2.356	0.172	0.1352	
720 minute winter	H7905	1.004	H7906	26.4	2.448	0.195	0.2398	
720 minute winter	H7906	1.005	H8001	31.0	2.309	0.238	0.6565	
720 minute winter	H8001	1.006	H8002	38.0	2.498	0.345	0.7316	
720 minute winter	H8002	1.007	H8105	44.0	1.809	0.250	1.1039	
720 minute winter	H8105	1.008	H8103	45.9	1.702	0.340	0.9348	
720 minute winter	H8103	1.009	H8104	45.9	1.589	0.158	0.4705	
720 minute winter	H8104	1.010	H8207	51.5	1.572	0.245	2.6384	
720 minute winter	H8207	1.011	H8206	55.6	1.645	0.232	1.0002	
720 minute winter	H8206	1.012	H8205	58.7	1.686	0.243	0.7405	
720 minute winter	H8205	1.013	H8204	60.9	1.865	0.231	0.5675	
720 minute winter	H8204	1.014	S8201	60.9	1.641	0.204	0.6070	
720 minute winter	S7202	2.000	S8208	102.5	2.514	0.214	1.0634	
720 minute winter	S8208	2.001	S8201	102.5	2.320	0.146	0.5888	
720 minute winter	S8201	1.015	S8203	167.4	3.190	0.256	1.0167	
720 minute winter	S8203	1.016	S7324	167.4	1.787	0.228	1.5972	3117.2

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Results for 100 year +45% CC 960 minute summer. 2400 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	H6808	570	145.035	0.048	5.5	0.0683	0.0000	OK
960 minute summer	H7801	570	144.808	0.067	17.4	0.0959	0.0000	OK
960 minute summer	H7907	555	144.034	0.066	24.0	0.0950	0.0000	OK
960 minute summer	H7908	555	140.857	0.071	27.1	0.1016	0.0000	OK
960 minute summer	H7905	555	139.943	0.074	30.7	0.1059	0.0000	OK
960 minute summer	H7906	555	138.464	0.080	36.0	0.1150	0.0000	OK
960 minute summer	H8001	555	135.444	0.101	43.9	0.1445	0.0000	OK
960 minute summer	H8002	555	133.236	0.109	50.3	0.1559	0.0000	OK
960 minute summer	H8105	555	132.135	0.134	51.9	0.1923	0.0000	OK
960 minute summer	H8103	555	131.528	0.112	51.9	0.1608	0.0000	OK
960 minute summer	H8104	540	131.209	0.134	56.8	0.1918	0.0000	OK
960 minute summer	H8207	510	130.318	0.133	61.2	0.1910	0.0000	OK
960 minute summer	H8206	495	129.901	0.141	65.1	0.2019	0.0000	OK
960 minute summer	H8205	495	129.591	0.141	67.9	0.2012	0.0000	OK
960 minute summer	H8204	495	129.279	0.129	67.9	0.1845	0.0000	OK
960 minute summer	S7202	495	130.170	0.170	123.9	0.2432	0.0000	OK
960 minute summer	S8208	495	129.565	0.135	123.9	0.1937	0.0000	OK
960 minute summer	S8201	495	128.998	0.188	197.9	0.2688	0.0000	OK
960 minute summer	S8203	495	128.195	0.175	197.8	0.2509	0.0000	OK
960 minute summer	S7324	495	127.957	0.157	197.7	0.0000	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	H6808	1.000	H7801	5.5	0.691	0.100	0.1758	
960 minute summer	H7801	1.001	H7907	17.4	1.776	0.184	0.2305	
960 minute summer	H7907	1.002	H7908	24.0	2.340	0.191	0.5643	
960 minute summer	H7908	1.003	H7905	27.1	2.451	0.200	0.1517	
960 minute summer	H7905	1.004	H7906	30.7	2.548	0.227	0.2675	
960 minute summer	H7906	1.005	H8001	35.9	2.403	0.276	0.7315	
960 minute summer	H8001	1.006	H8002	43.9	2.593	0.398	0.8144	
960 minute summer	H8002	1.007	H8105	50.3	1.879	0.286	1.2142	
960 minute summer	H8105	1.008	H8103	51.9	1.756	0.385	1.0252	
960 minute summer	H8103	1.009	H8104	51.9	1.651	0.179	0.5114	
960 minute summer	H8104	1.010	H8207	56.8	1.619	0.270	2.8301	
960 minute summer	H8207	1.011	H8206	61.2	1.682	0.255	1.0778	
960 minute summer	H8206	1.012	H8205	65.0	1.723	0.269	0.8035	
960 minute summer	H8205	1.013	H8204	67.9	1.906	0.258	0.6184	
960 minute summer	H8204	1.014	S8201	67.8	1.737	0.228	0.6838	
960 minute summer	S7202	2.000	S8208	123.9	2.617	0.258	1.2336	
960 minute summer	S8208	2.001	S8201	123.8	2.420	0.176	0.6790	
960 minute summer	S8201	1.015	S8203	197.8	3.304	0.302	1.1601	
960 minute summer	S8203	1.016	S7324	197.7	1.863	0.269	1.8110	3418.3

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Results for 100 year +45% CC 960 minute winter. 2400 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 winter	H6808	570	145.028	0.041	4.0	0.0585	0.0000	OK
960 minute winter	H7801	570	144.798	0.057	12.7	0.0810	0.0000	OK
960 minute winter	H7907	570	144.025	0.057	17.9	0.0818	0.0000	OK
960 minute winter	H7908	570	140.847	0.061	20.4	0.0873	0.0000	OK
960 minute winter	H7905	570	139.933	0.064	23.1	0.0909	0.0000	OK
960 minute winter	H7906	570	138.453	0.069	27.1	0.0992	0.0000	OK
960 minute winter	H8001	555	135.429	0.086	33.2	0.1234	0.0000	OK
960 minute winter	H8002	540	133.221	0.094	38.3	0.1351	0.0000	OK
960 minute winter	H8105	555	132.117	0.116	39.9	0.1653	0.0000	OK
960 minute winter	H8103	555	131.513	0.097	39.9	0.1385	0.0000	OK
960 minute winter	H8104	540	131.193	0.118	44.7	0.1687	0.0000	OK
960 minute winter	H8207	540	130.301	0.117	48.1	0.1673	0.0000	OK
960 minute winter	H8206	540	129.882	0.122	50.4	0.1750	0.0000	OK
960 minute winter	H8205	540	129.571	0.121	52.1	0.1736	0.0000	OK
960 minute winter	H8204	540	129.261	0.111	52.1	0.1582	0.0000	OK
960 minute winter	S7202	495	130.136	0.136	82.1	0.1942	0.0000	OK
960 minute winter	S8208	495	129.537	0.107	82.1	0.1525	0.0000	OK
960 minute winter	S8201	510	128.961	0.151	136.5	0.2163	0.0000	OK
960 minute winter	S8203	510	128.162	0.142	136.5	0.2031	0.0000	OK
960 minute winter	S7324	510	127.929	0.129	136.5	0.0000	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	H6808	1.000	H7801	4.0	0.636	0.073	0.1394	
960 minute winter	H7801	1.001	H7907	12.7	1.614	0.134	0.1847	
960 minute winter	H7907	1.002	H7908	17.9	2.163	0.142	0.4570	
960 minute winter	H7908	1.003	H7905	20.4	2.284	0.151	0.1227	
960 minute winter	H7905	1.004	H7906	23.1	2.363	0.171	0.2174	
960 minute winter	H7906	1.005	H8001	27.1	2.232	0.208	0.5943	
960 minute winter	H8001	1.006	H8002	33.2	2.411	0.301	0.6615	
960 minute winter	H8002	1.007	H8105	38.3	1.747	0.218	0.9951	
960 minute winter	H8105	1.008	H8103	39.9	1.643	0.296	0.8421	
960 minute winter	H8103	1.009	H8104	39.9	1.537	0.137	0.4230	
960 minute winter	H8104	1.010	H8207	44.7	1.517	0.212	2.3720	
960 minute winter	H8207	1.011	H8206	48.0	1.590	0.200	0.8935	
960 minute winter	H8206	1.012	H8205	50.4	1.628	0.209	0.6588	
960 minute winter	H8205	1.013	H8204	52.1	1.803	0.198	0.5028	
960 minute winter	H8204	1.014	S8201	52.1	1.590	0.175	0.5280	
960 minute winter	S7202	2.000	S8208	82.1	2.392	0.171	0.8954	
960 minute winter	S8208	2.001	S8201	82.1	2.201	0.117	0.4977	
960 minute winter	S8201	1.015	S8203	136.5	3.051	0.208	0.8673	
960 minute winter	S8203	1.016	S7324	136.5	1.699	0.186	1.3712	3334.1

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Results for 100 year +45% CC 1440 minute summer. 2880 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	H6808	810	145.032	0.045	4.8	0.0639	0.0000	OK
1440 minute summer	H7801	810	144.803	0.062	15.1	0.0889	0.0000	OK
1440 minute summer	H7907	810	144.030	0.062	20.8	0.0883	0.0000	OK
1440 minute summer	H7908	810	140.852	0.066	23.5	0.0941	0.0000	OK
1440 minute summer	H7905	810	139.938	0.069	26.6	0.0980	0.0000	OK
1440 minute summer	H7906	810	138.458	0.074	31.1	0.1065	0.0000	OK
1440 minute summer	H8001	810	135.436	0.093	38.0	0.1329	0.0000	OK
1440 minute summer	H8002	810	133.228	0.101	43.4	0.1442	0.0000	OK
1440 minute summer	H8105	810	132.124	0.123	44.8	0.1766	0.0000	OK
1440 minute summer	H8103	810	131.519	0.103	44.8	0.1480	0.0000	OK
1440 minute summer	H8104	810	131.199	0.124	48.8	0.1771	0.0000	OK
1440 minute summer	H8207	780	130.306	0.122	51.8	0.1744	0.0000	OK
1440 minute summer	H8206	780	129.887	0.127	54.2	0.1822	0.0000	OK
1440 minute summer	H8205	780	129.576	0.126	55.9	0.1803	0.0000	OK
1440 minute summer	H8204	780	129.265	0.115	55.9	0.1650	0.0000	OK
1440 minute summer	S7202	750	130.141	0.141	88.0	0.2016	0.0000	OK
1440 minute summer	S8208	720	129.541	0.111	88.0	0.1589	0.0000	OK
1440 minute summer	S8201	750	128.968	0.158	146.9	0.2255	0.0000	OK
1440 minute summer	S8203	750	128.168	0.148	146.9	0.2116	0.0000	OK
1440 minute summer	S7324	750	127.934	0.134	146.9	0.0000	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	H6808	1.000	H7801	4.8	0.668	0.087	0.1586	
1440 minute summer	H7801	1.001	H7907	15.1	1.703	0.159	0.2079	
1440 minute summer	H7907	1.002	H7908	20.8	2.253	0.165	0.5079	
1440 minute summer	H7908	1.003	H7905	23.5	2.367	0.174	0.1362	
1440 minute summer	H7905	1.004	H7906	26.6	2.455	0.197	0.2406	
1440 minute summer	H7906	1.005	H8001	31.1	2.313	0.238	0.6565	
1440 minute summer	H8001	1.006	H8002	37.9	2.497	0.344	0.7303	
1440 minute summer	H8002	1.007	H8105	43.4	1.810	0.247	1.0881	
1440 minute summer	H8105	1.008	H8103	44.8	1.692	0.332	0.9183	
1440 minute summer	H8103	1.009	H8104	44.8	1.594	0.154	0.4575	
1440 minute summer	H8104	1.010	H8207	48.8	1.559	0.232	2.5218	
1440 minute summer	H8207	1.011	H8206	51.8	1.623	0.216	0.9452	
1440 minute summer	H8206	1.012	H8205	54.2	1.657	0.224	0.6952	
1440 minute summer	H8205	1.013	H8204	55.9	1.827	0.212	0.5314	
1440 minute summer	H8204	1.014	S8201	55.9	1.674	0.188	0.5543	
1440 minute summer	S7202	2.000	S8208	88.0	2.431	0.183	0.9454	
1440 minute summer	S8208	2.001	S8201	88.0	2.258	0.125	0.5267	
1440 minute summer	S8201	1.015	S8203	146.9	3.101	0.224	0.9179	
1440 minute summer	S8203	1.016	S7324	146.9	1.730	0.200	1.4482	3725.7

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Results for 100 year +45% CC 1440 minute winter. 2880 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 winter	H6808	810	145.024	0.037	3.2	0.0524	0.0000	OK
1440 minute winter	H7801	810	144.791	0.050	10.0	0.0716	0.0000	OK
1440 minute winter	H7907	810	144.019	0.051	14.2	0.0728	0.0000	OK
1440 minute winter	H7908	810	140.840	0.054	16.2	0.0772	0.0000	OK
1440 minute winter	H7905	810	139.925	0.056	18.4	0.0807	0.0000	OK
1440 minute winter	H7906	810	138.446	0.062	21.6	0.0882	0.0000	OK
1440 minute winter	H8001	810	135.419	0.076	26.5	0.1091	0.0000	OK
1440 minute winter	H8002	810	133.211	0.084	30.5	0.1200	0.0000	OK
1440 minute winter	H8105	810	132.103	0.102	31.7	0.1455	0.0000	OK
1440 minute winter	H8103	810	131.501	0.085	31.7	0.1221	0.0000	OK
1440 minute winter	H8104	810	131.179	0.104	35.1	0.1490	0.0000	OK
1440 minute winter	H8207	810	130.287	0.103	37.6	0.1468	0.0000	OK
1440 minute winter	H8206	810	129.867	0.107	39.4	0.1530	0.0000	OK
1440 minute winter	H8205	780	129.556	0.106	40.7	0.1516	0.0000	OK
1440 minute winter	H8204	810	129.246	0.096	40.7	0.1377	0.0000	OK
1440 minute winter	S7202	750	130.114	0.114	59.1	0.1633	0.0000	OK
1440 minute winter	S8208	720	129.519	0.089	59.1	0.1270	0.0000	OK
1440 minute winter	S8201	750	128.938	0.128	101.9	0.1836	0.0000	OK
1440 minute winter	S8203	750	128.141	0.121	101.8	0.1728	0.0000	OK
1440 minute winter	S7324	750	127.912	0.111	101.8	0.0000	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	H6808	1.000	H7801	3.2	0.599	0.058	0.1177	
1440 minute winter	H7801	1.001	H7907	10.0	1.507	0.105	0.1557	
1440 minute winter	H7907	1.002	H7908	14.2	2.025	0.113	0.3859	
1440 minute winter	H7908	1.003	H7905	16.2	2.149	0.120	0.1035	
1440 minute winter	H7905	1.004	H7906	18.4	2.219	0.136	0.1843	
1440 minute winter	H7906	1.005	H8001	21.6	2.096	0.165	0.5038	
1440 minute winter	H8001	1.006	H8002	26.5	2.268	0.240	0.5608	
1440 minute winter	H8002	1.007	H8105	30.5	1.646	0.173	0.8398	
1440 minute winter	H8105	1.008	H8103	31.7	1.545	0.235	0.7103	
1440 minute winter	H8103	1.009	H8104	31.6	1.452	0.109	0.3548	
1440 minute winter	H8104	1.010	H8207	35.1	1.426	0.167	1.9855	
1440 minute winter	H8207	1.011	H8206	37.6	1.499	0.157	0.7426	
1440 minute winter	H8206	1.012	H8205	39.4	1.537	0.163	0.5457	
1440 minute winter	H8205	1.013	H8204	40.7	1.704	0.154	0.4150	
1440 minute winter	H8204	1.014	S8201	40.7	1.510	0.137	0.4252	
1440 minute winter	S7202	2.000	S8208	59.1	2.216	0.123	0.6970	
1440 minute winter	S8208	2.001	S8201	59.1	2.031	0.084	0.3912	
1440 minute winter	S8201	1.015	S8203	101.8	2.855	0.156	0.6914	
1440 minute winter	S8203	1.016	S7324	101.8	1.575	0.139	1.1030	3633.9

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Results for 100 year +45% CC 2160 minute summer. 3600 minute analysis at 60 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
2160 minute summer	H6808	1200	145.027	0.040	3.8	0.0570	0.0000	OK
2160 minute summer	H7801	1200	144.796	0.055	12.1	0.0792	0.0000	OK
2160 minute summer	H7907	1200	144.023	0.055	16.6	0.0788	0.0000	OK
2160 minute summer	H7908	1200	140.844	0.058	18.8	0.0835	0.0000	OK
2160 minute summer	H7905	1200	139.930	0.061	21.3	0.0871	0.0000	OK
2160 minute summer	H7906	1200	138.450	0.066	24.9	0.0949	0.0000	OK
2160 minute summer	H8001	1200	135.425	0.082	30.5	0.1177	0.0000	OK
2160 minute summer	H8002	1200	133.217	0.090	34.9	0.1286	0.0000	OK
2160 minute summer	H8105	1200	132.110	0.109	36.0	0.1559	0.0000	OK
2160 minute summer	H8103	1200	131.508	0.092	35.9	0.1310	0.0000	OK
2160 minute summer	H8104	1200	131.185	0.110	39.0	0.1575	0.0000	OK
2160 minute summer	H8207	1200	130.292	0.108	41.2	0.1542	0.0000	OK
2160 minute summer	H8206	1200	129.872	0.112	42.8	0.1600	0.0000	OK
2160 minute summer	H8205	1140	129.561	0.110	44.0	0.1581	0.0000	OK
2160 minute summer	H8204	1200	129.251	0.101	44.0	0.1446	0.0000	OK
2160 minute summer	S7202	1140	130.116	0.116	60.8	0.1658	0.0000	OK
2160 minute summer	S8208	1080	129.520	0.090	60.8	0.1292	0.0000	OK
2160 minute summer	S8201	1140	128.942	0.132	107.8	0.1894	0.0000	OK
2160 minute summer	S8203	1140	128.145	0.125	107.7	0.1782	0.0000	OK
2160 minute summer	S7324	1140	127.915	0.115	107.7	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute summer	H6808	1.000	H7801	3.8	0.622	0.069	0.1348	
2160 minute summer	H7801	1.001	H7907	12.1	1.604	0.128	0.1769	
2160 minute summer	H7907	1.002	H7908	16.6	2.118	0.132	0.4312	
2160 minute summer	H7908	1.003	H7905	18.8	2.235	0.139	0.1155	
2160 minute summer	H7905	1.004	H7906	21.3	2.313	0.157	0.2046	
2160 minute summer	H7906	1.005	H8001	24.9	2.180	0.191	0.5582	
2160 minute summer	H8001	1.006	H8002	30.5	2.356	0.276	0.6212	
2160 minute summer	H8002	1.007	H8105	34.9	1.711	0.198	0.9240	
2160 minute summer	H8105	1.008	H8103	35.9	1.598	0.266	0.7796	
2160 minute summer	H8103	1.009	H8104	35.9	1.510	0.124	0.3872	
2160 minute summer	H8104	1.010	H8207	39.0	1.472	0.185	2.1357	
2160 minute summer	H8207	1.011	H8206	41.2	1.537	0.172	0.7930	
2160 minute summer	H8206	1.012	H8205	42.8	1.571	0.177	0.5797	
2160 minute summer	H8205	1.013	H8204	44.0	1.735	0.167	0.4421	
2160 minute summer	H8204	1.014	S8201	44.0	1.594	0.148	0.4503	
2160 minute summer	S7202	2.000	S8208	60.8	2.234	0.127	0.7127	
2160 minute summer	S8208	2.001	S8201	60.8	2.065	0.087	0.4049	
2160 minute summer	S8201	1.015	S8203	107.7	2.893	0.165	0.7221	
2160 minute summer	S8203	1.016	S7324	107.7	1.598	0.147	1.1500	3990.2

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Results for 100 year +45% CC 2160 minute winter. 3600 minute analysis at 60 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
2160 minute winter	H6808	1200	145.019	0.032	2.4	0.0456	0.0000	OK
2160 minute winter	H7801	1200	144.784	0.043	7.5	0.0619	0.0000	OK
2160 minute winter	H7907	1200	144.012	0.044	10.6	0.0630	0.0000	OK
2160 minute winter	H7908	1200	140.832	0.046	12.0	0.0661	0.0000	OK
2160 minute winter	H7905	1200	139.917	0.048	13.7	0.0693	0.0000	OK
2160 minute winter	H7906	1200	138.437	0.053	16.1	0.0761	0.0000	OK
2160 minute winter	H8001	1200	135.408	0.065	19.8	0.0935	0.0000	OK
2160 minute winter	H8002	1200	133.199	0.072	22.8	0.1037	0.0000	OK
2160 minute winter	H8105	1200	132.088	0.087	23.7	0.1245	0.0000	OK
2160 minute winter	H8103	1200	131.489	0.073	23.7	0.1045	0.0000	OK
2160 minute winter	H8104	1200	131.165	0.090	26.3	0.1285	0.0000	OK
2160 minute winter	H8207	1200	130.272	0.088	28.1	0.1259	0.0000	OK
2160 minute winter	H8206	1200	129.851	0.091	29.4	0.1308	0.0000	OK
2160 minute winter	H8205	1200	129.541	0.091	30.3	0.1295	0.0000	OK
2160 minute winter	H8204	1200	129.232	0.082	30.3	0.1171	0.0000	OK
2160 minute winter	S7202	1140	130.096	0.096	41.9	0.1368	0.0000	OK
2160 minute winter	S8208	1080	129.504	0.074	41.9	0.1055	0.0000	OK
2160 minute winter	S8201	1140	128.918	0.108	74.2	0.1547	0.0000	OK
2160 minute winter	S8203	1140	128.122	0.102	74.2	0.1457	0.0000	OK
2160 minute winter	S7324	1140	127.895	0.095	74.2	0.0000	0.0000	OK

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
2160 minute winter	H6808	1.000	H7801	2.4	0.552	0.044	0.0959	
2160 minute winter	H7801	1.001	H7907	7.5	1.390	0.079	0.1266	
2160 minute winter	H7907	1.002	H7908	10.6	1.874	0.084	0.3114	
2160 minute winter	H7908	1.003	H7905	12.0	1.982	0.089	0.0831	
2160 minute winter	H7905	1.004	H7906	13.7	2.044	0.101	0.1490	
2160 minute winter	H7906	1.005	H8001	16.1	1.931	0.123	0.4078	
2160 minute winter	H8001	1.006	H8002	19.8	2.095	0.179	0.4540	
2160 minute winter	H8002	1.007	H8105	22.8	1.521	0.130	0.6794	
2160 minute winter	H8105	1.008	H8103	23.7	1.430	0.175	0.5744	
2160 minute winter	H8103	1.009	H8104	23.7	1.347	0.081	0.2863	
2160 minute winter	H8104	1.010	H8207	26.3	1.319	0.125	1.6048	
2160 minute winter	H8207	1.011	H8206	28.1	1.391	0.117	0.5966	
2160 minute winter	H8206	1.012	H8205	29.4	1.427	0.121	0.4376	
2160 minute winter	H8205	1.013	H8204	30.3	1.588	0.115	0.3315	
2160 minute winter	H8204	1.014	S8201	30.3	1.404	0.102	0.3382	
2160 minute winter	S7202	2.000	S8208	41.9	2.034	0.087	0.5383	
2160 minute winter	S8208	2.001	S8201	41.9	1.857	0.060	0.3046	
2160 minute winter	S8201	1.015	S8203	74.2	2.646	0.113	0.5432	
2160 minute winter	S8203	1.016	S7324	74.2	1.450	0.101	0.8732	3901.6

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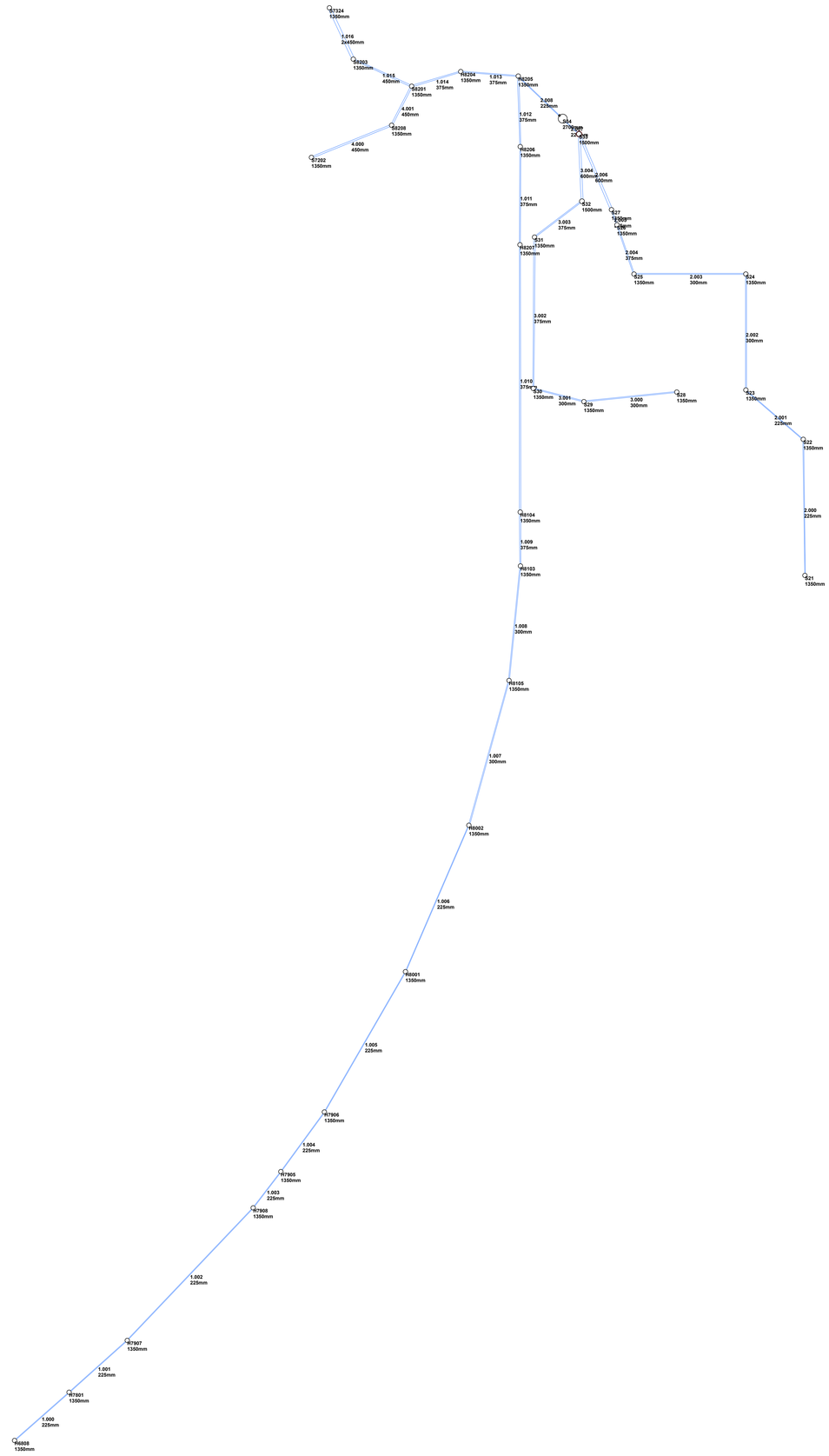
EXISTING WINDSOR DRIVE DRAINAGE + WEST DEVELOPMENT AREA



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Phoenix Design Partnership Ltd.
The Old School House
St James's Road, South Parade
BATH, BA2 4AF

File: 639-PROPOSED WEST DRAINAGE.pfd
Network:
George Ballard
28/05/2026

PROPOSED WEST DRAINAGE
LAND SOUTH OF COATE ROAD
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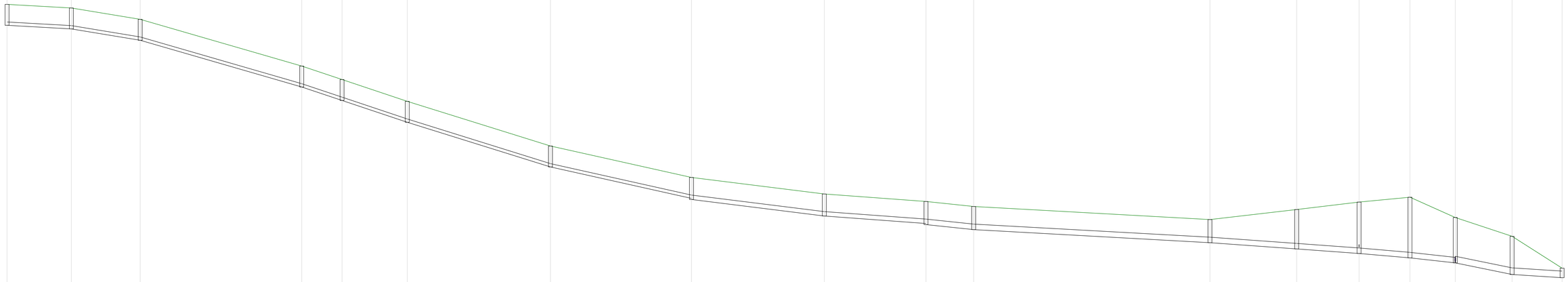

Node Name	H6808	H7801	H7907	H7908	H7905	H7906	H8001	H8002	H8105	H8103	H8104	H8207	H8206	H8205	H8204	S8201	S8203	S7324
A0 drawing Hor Scale 500 Ver Scale 100 Datum (m) 100.000																		
Link Name	1.000	1.001	1.002	1.003	1.004	1.005	1.006	1.007	1.008	1.009	1.010	1.011	1.012	1.013	1.014	1.015	1.016	
Section Type	225mm	225mm	225mm	225mm	225mm	225mm	225mm	300mm	300mm	375mm	375mm	375mm	375mm	375mm	375mm	450mm	2x450mm	
Slope (1:X)	89.1	30.4	17.3	15.0	15.0	16.1	22.4	40.2	68.0	47.6	90.4	69.7	68.6	57.9	45.4	24.5	77.5	
Cover Level (m)	146.412	146.166	145.393	142.211	141.294	139.809	136.768	134.627	133.501	132.991	132.650	131.759	132.443	132.950	133.280	131.900	130.620	128.450
Invert Level (m)	144.587	144.741	143.568	140.786	139.869	138.384	135.343	133.202	132.001	132.491	132.071	130.184	129.760	129.450	129.150	128.810	128.020	127.800
Length (m)	21.922	23.469	55.068	13.736	22.231	48.817	48.060	45.284	34.671	16.239	80.542	29.565	21.263	17.370	15.419	19.375	17.050	

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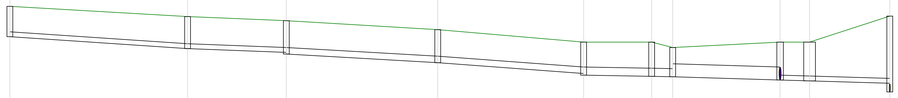

A0 drawing

Hor Scale 500
Ver Scale 100

Datum (m) 94.000

Node Name	S21	S22	S23	S24	S25	S26	S27	S33	S34	HB205
Link Name	2.000	2.001	2.002	2.003	2.004	2.005	2.006	2.007	2.008	
Section Type	225mm	225mm	300mm	300mm	375mm	375mn	600mm	225mm	225mm	
Slope (1:X)	74.6	130.2	87.4	67.3	285.5	242.6	165.2	170.1	168.3	
Cover Level (m)	133.401	132.929	132.739	132.235	131.750	131.750	131.500	131.750	131.750	132.950
Invert Level (m)	132.000	131.450 131.450	131.275 131.200	130.800 130.800	130.300 130.225	130.170 130.170	130.150 130.150	130.000 130.000	129.960 129.960	129.850
Length (m)		41.012	22.784	34.949	33.670	15.702	4.852	24.786	6.803	18.511

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Node Name		S28	S29	S30	S31	S32	S33
A0 drawing Hor Scale 500 Ver Scale 100 Datum (m) 94.000							
Link Name		3.000	3.001	3.002	3.003	3.004	
Section Type		300mm	300mm	375mm	375mm	600mm	
Slope (1:X)		93.7	78.7	228.1	180.1	134.7	
Cover Level (m)		132.555	132.273	132.054	131.750	131.750	131.750
Invert Level (m)		131.025	130.725 130.715	130.515 130.400	130.150 130.250	130.150 130.150	130.000
Length (m)		28.115	15.738	45.613	18.005	20.207	

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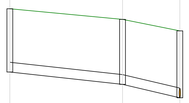

Node Name	S7202	S8208	S8201
A0 drawing Hor Scale 500 Ver Scale 100 Datum (m) 94.000			
Link Name	4.000	4.001	
Section Type	450mm	450mm	
Slope (1:X)	45.6	21.3	
Cover Level (m)	132.920	132.430	131.900
Invert Level (m)	130.000	129.430 129.430	128.810
Length (m)	26.007	13.220	

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EXISTING WINDSOR DRIVE DRAINAGE + WEST DEVELOPMENT AREA - CRITICAL EVENTS

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Circular Link Type

Template	Freeform Carrier	Barrels	1	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)
100 | 150

Twin Link Type

Template	Freeform Carrier	Barrels	2	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)
150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
H6808	0.020	5.00	146.412	1350	401697.439	161876.655	1.425	144.987
H7801	0.037	5.00	146.166	1350	401713.855	161891.185	1.425	144.741
H7907	0.065	5.00	145.393	1350	401731.373	161906.803	1.425	143.968
H7908	0.029	5.00	142.211	1350	401769.280	161946.748	1.425	140.786
H7905	0.028	5.00	141.294	1350	401777.615	161957.666	1.425	139.869
H7906	0.035	5.00	139.809	1350	401790.716	161975.627	1.425	138.384
H8001	0.056	5.00	136.768	1350	401815.128	162017.903	1.425	135.343
H8002	0.061	5.00	134.627	1350	401834.219	162062.008	1.500	133.127
H8105	0.036	5.00	133.501	1350	401846.306	162105.649	1.500	132.001
H8103			132.991	1350	401849.746	162140.149	1.575	131.416
H8104	0.106	5.00	132.650	1350	401849.680	162156.388	1.575	131.075
H8207	0.075	5.00	131.759	1350	401849.600	162236.930	1.575	130.184
H8206	0.053	5.00	132.443	1350	401849.685	162266.494	2.683	129.760
S21	0.133	5.00	133.401	1350	401935.393	162137.296	1.401	132.000
S22	0.034	5.00	132.929	1350	401934.890	162178.305	1.479	131.450
S23	0.034	5.00	132.739	1350	401917.616	162193.162	1.539	131.200
S24	0.018	5.00	132.325	1350	401917.601	162228.111	1.525	130.800
S25	0.066	5.00	131.750	1350	401883.931	162228.093	1.525	130.225
S26	0.042	5.00	131.750	1350	401878.801	162242.933	1.580	130.170
S27			131.750	1350	401877.144	162247.494	1.600	130.150
S28	0.111	5.00	132.555	1350	401896.813	162192.538	1.530	131.025
S29	0.217	5.00	132.273	1350	401868.846	162189.658	1.548	130.725
S30			132.054	1350	401853.613	162193.611	1.604	130.450
S31			131.750	1350	401853.989	162239.223	1.500	130.250
S32			131.750	1500	401868.267	162250.024	1.600	130.150
S33	0.042	5.00	131.750	1500	401867.381	162270.288	1.750	130.000
S34			131.750	2700	401862.465	162274.931	1.790	129.960
H8205	0.037	5.00	132.950	1350	401849.082	162287.748	3.500	129.450
H8204			133.280	1350	401831.765	162289.104	4.130	129.150
S7202		5.00	132.920	1350	401786.819	162263.249	2.920	130.000
S8208			132.430	1350	401810.955	162272.932	3.000	129.430
S8201	0.080	5.00	131.900	1350	401816.990	162284.694	3.090	128.810

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Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
S8203			130.620	1350	401799.417	162292.854	2.600	128.020
S7324			128.450	1350	401792.231	162308.316	0.650	127.800

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	H6808	H7801	21.922	0.600	144.987	144.741	0.246	89.1	225	5.26	50.0
1.001	H7801	H7907	23.469	0.600	144.741	143.968	0.773	30.4	225	5.43	50.0
1.002	H7907	H7908	55.068	0.600	143.968	140.786	3.182	17.3	225	5.72	48.9
1.003	H7908	H7905	13.736	0.600	140.786	139.869	0.917	15.0	225	5.79	48.6
1.004	H7905	H7906	22.231	0.600	139.869	138.384	1.485	15.0	225	5.89	48.2
1.005	H7906	H8001	48.817	0.600	138.384	135.343	3.041	16.1	225	6.14	47.4
1.006	H8001	H8002	48.060	0.600	135.343	133.202	2.141	22.4	225	6.43	46.4
1.007	H8002	H8105	45.284	0.600	133.127	132.001	1.126	40.2	300	6.74	45.3
1.008	H8105	H8103	34.671	0.600	132.001	131.491	0.510	68.0	300	7.04	44.3
1.009	H8103	H8104	16.239	0.600	131.416	131.075	0.341	47.6	375	7.14	44.0
1.010	H8104	H8207	80.542	0.600	131.075	130.184	0.891	90.4	375	7.84	41.9
1.011	H8207	H8206	29.565	0.600	130.184	129.760	0.424	69.7	375	8.07	41.3
1.012	H8206	H8205	21.263	0.600	129.760	129.450	0.310	68.6	375	8.23	40.8
2.000	S21	S22	41.012	0.600	132.000	131.450	0.550	74.6	225	5.45	49.9
2.001	S22	S23	22.784	0.600	131.450	131.275	0.175	130.2	225	5.78	48.7
2.002	S23	S24	34.949	0.600	131.200	130.800	0.400	87.4	300	6.13	47.4
2.003	S24	S25	33.670	0.600	130.800	130.300	0.500	67.3	300	6.42	46.4
2.004	S25	S26	15.702	0.600	130.225	130.170	0.055	285.5	375	6.67	45.6
2.005	S26	S27	4.852	0.600	130.170	130.150	0.020	242.6	375	6.74	45.3
2.006	S27	S33	24.786	0.600	130.150	130.000	0.150	165.2	600	6.96	44.6
3.000	S28	S29	28.115	0.600	131.025	130.725	0.300	93.7	300	5.29	50.0
3.001	S29	S30	15.738	0.600	130.725	130.525	0.200	78.7	300	5.44	50.0
3.002	S30	S31	45.613	0.600	130.450	130.250	0.200	228.1	375	6.07	47.6

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	1.385	55.1	3.6	1.200	1.200	0.020	0.0	39	0.791
1.001	2.383	94.7	10.3	1.200	1.200	0.057	0.0	50	1.571
1.002	3.160	125.7	21.6	1.200	1.200	0.122	0.0	63	2.379
1.003	3.398	135.1	26.5	1.200	1.200	0.151	0.0	67	2.654
1.004	3.399	135.1	31.2	1.200	1.200	0.179	0.0	73	2.780
1.005	3.282	130.5	36.6	1.200	1.200	0.214	0.0	81	2.828
1.006	2.773	110.3	45.2	1.200	1.200	0.270	0.0	101	2.644
1.007	2.486	175.7	54.2	1.200	1.200	0.331	0.0	114	2.198
1.008	1.909	135.0	58.7	1.200	1.200	0.367	0.0	139	1.847
1.009	2.631	290.6	58.3	1.200	1.200	0.367	0.0	113	2.072
1.010	1.906	210.5	71.6	1.200	1.200	0.473	0.0	151	1.731
1.011	2.172	239.9	81.7	1.200	2.308	0.548	0.0	151	1.972
1.012	2.190	241.9	88.7	2.308	3.125	0.601	0.0	157	2.029
2.000	1.516	60.3	24.0	1.176	1.254	0.133	0.0	99	1.433
2.001	1.144	45.5	29.4	1.254	1.239	0.167	0.0	131	1.213
2.002	1.683	118.9	34.4	1.239	1.225	0.201	0.0	110	1.464
2.003	1.918	135.6	36.7	1.225	1.150	0.219	0.0	106	1.639
2.004	1.067	117.9	46.9	1.150	1.205	0.285	0.0	164	1.009
2.005	1.159	128.0	53.5	1.205	1.225	0.327	0.0	169	1.108
2.006	1.891	534.8	52.7	1.000	1.150	0.327	0.0	126	1.224
3.000	1.624	114.8	20.1	1.230	1.248	0.111	0.0	85	1.231
3.001	1.774	125.4	59.2	1.248	1.229	0.328	0.0	145	1.749
3.002	1.195	132.0	56.4	1.229	1.125	0.328	0.0	171	1.150

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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)
3.003	S31	S32	18.005	0.600	130.250	130.150	0.100	180.1	375	6.30	46.8
3.004	S32	S33	20.207	0.600	130.150	130.000	0.150	134.7	600	6.46	46.3
2.007	S33	S34	6.803	0.600	130.000	129.960	0.040	170.1	225	7.07	44.2
2.008	S34	H8205	18.511	0.600	129.960	129.850	0.110	168.3	225	7.38	43.3
1.013	H8205	H8204	17.370	0.600	129.450	129.150	0.300	57.9	375	8.35	40.5
1.014	H8204	S8201	15.419	0.600	129.150	128.810	0.340	45.4	375	8.45	40.3
4.000	S7202	S8208	26.007	0.600	130.000	129.430	0.570	45.6	450	5.14	50.0
4.001	S8208	S8201	13.220	0.600	129.430	128.810	0.620	21.3	450	5.19	50.0
1.015	S8201	S8203	19.375	0.600	128.810	128.020	0.790	24.5	450	8.53	40.1
1.016	S8203	S7324	17.050	0.600	128.020	127.800	0.220	77.5	450	8.65	39.8

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)
3.003	1.347	148.8	55.5	1.125	1.225	0.328	0.0	159	1.253
3.004	2.096	592.7	54.9	1.000	1.150	0.328	0.0	122	1.332
2.007	0.999	39.7	111.3	1.525	1.565	0.697	0.0	225	1.018
2.008	1.005	40.0	109.0	1.565	2.875	0.697	0.0	225	1.023
1.013	2.385	263.4	195.6	3.125	3.755	1.335	0.0	241	2.601
1.014	2.696	297.8	194.4	3.755	2.715	1.335	0.0	222	2.867
4.000	3.016	479.6	0.0	2.470	2.550	0.000	0.0	0	0.000
4.001	4.417	702.5	0.0	2.550	2.640	0.000	0.0	0	0.000
1.015	4.118	654.9	205.0	2.640	2.150	1.415	0.0	173	3.664
1.016	2.311	735.0	203.4	2.150	0.200	1.415	0.0	161	1.988

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	21.922	89.1	225	Circular	146.412	144.987	1.200	146.166	144.741	1.200
1.001	23.469	30.4	225	Circular	146.166	144.741	1.200	145.393	143.968	1.200
1.002	55.068	17.3	225	Circular	145.393	143.968	1.200	142.211	140.786	1.200
1.003	13.736	15.0	225	Circular	142.211	140.786	1.200	141.294	139.869	1.200
1.004	22.231	15.0	225	Circular	141.294	139.869	1.200	139.809	138.384	1.200
1.005	48.817	16.1	225	Circular	139.809	138.384	1.200	136.768	135.343	1.200
1.006	48.060	22.4	225	Circular	136.768	135.343	1.200	134.627	133.202	1.200
1.007	45.284	40.2	300	Circular	134.627	133.127	1.200	133.501	132.001	1.200
1.008	34.671	68.0	300	Circular	133.501	132.001	1.200	132.991	131.491	1.200
1.009	16.239	47.6	375	Circular	132.991	131.416	1.200	132.650	131.075	1.200
1.010	80.542	90.4	375	Circular	132.650	131.075	1.200	131.759	130.184	1.200
1.011	29.565	69.7	375	Circular	131.759	130.184	1.200	132.443	129.760	2.308
1.012	21.263	68.6	375	Circular	132.443	129.760	2.308	132.950	129.450	3.125

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	H6808	1350	Manhole	Adoptable	H7801	1350	Manhole	Adoptable
1.001	H7801	1350	Manhole	Adoptable	H7907	1350	Manhole	Adoptable
1.002	H7907	1350	Manhole	Adoptable	H7908	1350	Manhole	Adoptable
1.003	H7908	1350	Manhole	Adoptable	H7905	1350	Manhole	Adoptable
1.004	H7905	1350	Manhole	Adoptable	H7906	1350	Manhole	Adoptable
1.005	H7906	1350	Manhole	Adoptable	H8001	1350	Manhole	Adoptable
1.006	H8001	1350	Manhole	Adoptable	H8002	1350	Manhole	Adoptable
1.007	H8002	1350	Manhole	Adoptable	H8105	1350	Manhole	Adoptable
1.008	H8105	1350	Manhole	Adoptable	H8103	1350	Manhole	Adoptable
1.009	H8103	1350	Manhole	Adoptable	H8104	1350	Manhole	Adoptable
1.010	H8104	1350	Manhole	Adoptable	H8207	1350	Manhole	Adoptable
1.011	H8207	1350	Manhole	Adoptable	H8206	1350	Manhole	Adoptable
1.012	H8206	1350	Manhole	Adoptable	H8205	1350	Manhole	Adoptable

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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)
2.000	41.012	74.6	225	Circular	133.401	132.000	1.176	132.929	131.450	1.254
2.001	22.784	130.2	225	Circular	132.929	131.450	1.254	132.739	131.275	1.239
2.002	34.949	87.4	300	Circular	132.739	131.200	1.239	132.325	130.800	1.225
2.003	33.670	67.3	300	Circular	132.325	130.800	1.225	131.750	130.300	1.150
2.004	15.702	285.5	375	Circular	131.750	130.225	1.150	131.750	130.170	1.205
2.005	4.852	242.6	375	Circular	131.750	130.170	1.205	131.750	130.150	1.225
2.006	24.786	165.2	600	Circular	131.750	130.150	1.000	131.750	130.000	1.150
3.000	28.115	93.7	300	Circular	132.555	131.025	1.230	132.273	130.725	1.248
3.001	15.738	78.7	300	Circular	132.273	130.725	1.248	132.054	130.525	1.229
3.002	45.613	228.1	375	Circular	132.054	130.450	1.229	131.750	130.250	1.125
3.003	18.005	180.1	375	Circular	131.750	130.250	1.125	131.750	130.150	1.225
3.004	20.207	134.7	600	Circular	131.750	130.150	1.000	131.750	130.000	1.150
2.007	6.803	170.1	225	Circular	131.750	130.000	1.525	131.750	129.960	1.565
2.008	18.511	168.3	225	Circular	131.750	129.960	1.565	132.950	129.850	2.875
1.013	17.370	57.9	375	Circular	132.950	129.450	3.125	133.280	129.150	3.755
1.014	15.419	45.4	375	Circular	133.280	129.150	3.755	131.900	128.810	2.715
4.000	26.007	45.6	450	Circular	132.920	130.000	2.470	132.430	129.430	2.550
4.001	13.220	21.3	450	Circular	132.430	129.430	2.550	131.900	128.810	2.640
1.015	19.375	24.5	450	Circular	131.900	128.810	2.640	130.620	128.020	2.150
1.016	17.050	77.5	450	Twin	130.620	128.020	2.150	128.450	127.800	0.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.000	S21	1350	Manhole	Adoptable	S22	1350	Manhole	Adoptable
2.001	S22	1350	Manhole	Adoptable	S23	1350	Manhole	Adoptable
2.002	S23	1350	Manhole	Adoptable	S24	1350	Manhole	Adoptable
2.003	S24	1350	Manhole	Adoptable	S25	1350	Manhole	Adoptable
2.004	S25	1350	Manhole	Adoptable	S26	1350	Manhole	Adoptable
2.005	S26	1350	Manhole	Adoptable	S27	1350	Manhole	Adoptable
2.006	S27	1350	Manhole	Adoptable	S33	1500	Manhole	Adoptable
3.000	S28	1350	Manhole	Adoptable	S29	1350	Manhole	Adoptable
3.001	S29	1350	Manhole	Adoptable	S30	1350	Manhole	Adoptable
3.002	S30	1350	Manhole	Adoptable	S31	1350	Manhole	Adoptable
3.003	S31	1350	Manhole	Adoptable	S32	1500	Manhole	Adoptable
3.004	S32	1500	Manhole	Adoptable	S33	1500	Manhole	Adoptable
2.007	S33	1500	Manhole	Adoptable	S34	2700	Manhole	Adoptable
2.008	S34	2700	Manhole	Adoptable	H8205	1350	Manhole	Adoptable
1.013	H8205	1350	Manhole	Adoptable	H8204	1350	Manhole	Adoptable
1.014	H8204	1350	Manhole	Adoptable	S8201	1350	Manhole	Adoptable
4.000	S7202	1350	Manhole	Adoptable	S8208	1350	Manhole	Adoptable
4.001	S8208	1350	Manhole	Adoptable	S8201	1350	Manhole	Adoptable
1.015	S8201	1350	Manhole	Adoptable	S8203	1350	Manhole	Adoptable
1.016	S8203	1350	Manhole	Adoptable	S7324	1350	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H6808	401697.439	161876.655	146.412	1.425	1350				
						0	1.000	144.987	225
H7801	401713.855	161891.185	146.166	1.425	1350		1	1.000	144.741	225
						0	1.001	144.741	225

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H7907	401731.373	161906.803	145.393	1.425	1350	1	1.001	143.968	225
						0	1.002	143.968	225
H7908	401769.280	161946.748	142.211	1.425	1350	1	1.002	140.786	225
						0	1.003	140.786	225
H7905	401777.615	161957.666	141.294	1.425	1350	1	1.003	139.869	225
						0	1.004	139.869	225
H7906	401790.716	161975.627	139.809	1.425	1350	1	1.004	138.384	225
						0	1.005	138.384	225
H8001	401815.128	162017.903	136.768	1.425	1350	1	1.005	135.343	225
						0	1.006	135.343	225
H8002	401834.219	162062.008	134.627	1.500	1350	1	1.006	133.202	225
						0	1.007	133.127	300
H8105	401846.306	162105.649	133.501	1.500	1350	1	1.007	132.001	300
						0	1.008	132.001	300
H8103	401849.746	162140.149	132.991	1.575	1350	1	1.008	131.491	300
						0	1.009	131.416	375
H8104	401849.680	162156.388	132.650	1.575	1350	1	1.009	131.075	375
						0	1.010	131.075	375
H8207	401849.600	162236.930	131.759	1.575	1350	1	1.010	130.184	375
						0	1.011	130.184	375
H8206	401849.685	162266.494	132.443	2.683	1350	1	1.011	129.760	375
						0	1.012	129.760	375
S21	401935.393	162137.296	133.401	1.401	1350	0	2.000	132.000	225
S22	401934.890	162178.305	132.929	1.479	1350	1	2.000	131.450	225
						0	2.001	131.450	225
S23	401917.616	162193.162	132.739	1.539	1350	1	2.001	131.275	225
						0	2.002	131.200	300

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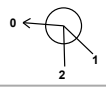
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S24	401917.601	162228.111	132.325	1.525	1350	1	2.002	130.800	300
						0	2.003	130.800	300
S25	401883.931	162228.093	131.750	1.525	1350	1	2.003	130.300	300
						0	2.004	130.225	375
S26	401878.801	162242.933	131.750	1.580	1350	1	2.004	130.170	375
						0	2.005	130.170	375
S27	401877.144	162247.494	131.750	1.600	1350	1	2.005	130.150	375
						0	2.006	130.150	600
S28	401896.813	162192.538	132.555	1.530	1350				
						0	3.000	131.025	300
S29	401868.846	162189.658	132.273	1.548	1350	1	3.000	130.725	300
						0	3.001	130.725	300
S30	401853.613	162193.611	132.054	1.604	1350	1	3.001	130.525	300
						0	3.002	130.450	375
S31	401853.989	162239.223	131.750	1.500	1350	1	3.002	130.250	375
						0	3.003	130.250	375
S32	401868.267	162250.024	131.750	1.600	1500	1	3.003	130.150	375
						0	3.004	130.150	600
S33	401867.381	162270.288	131.750	1.750	1500	1	3.004	130.000	600
						2	2.006	130.000	600
						0	2.007	130.000	225
S34	401862.465	162274.931	131.750	1.790	2700	1	2.007	129.960	225
						0	2.008	129.960	225
H8205	401849.082	162287.748	132.950	3.500	1350	1	2.008	129.850	225
						2	1.012	129.450	375
									
						0	1.013	129.450	375
H8204	401831.765	162289.104	133.280	4.130	1350	1	1.013	129.150	375
						0	1.014	129.150	375
S7202	401786.819	162263.249	132.920	2.920	1350				
						0	4.000	130.000	450

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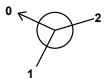
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S8208	401810.955	162272.932	132.430	3.000	1350	1	4.000	129.430	450
						0	4.001	129.430	450
S8201	401816.990	162284.694	131.900	3.090	1350	 1	4.001	128.810	450
						2	1.014	128.810	375
						0	1.015	128.810	450
S8203	401799.417	162292.854	130.620	2.600	1350	1	1.015	128.020	450
						0	1.016	128.020	450
S7324	401792.231	162308.316	128.450	0.650	1350	1	1.016	127.800	450

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	2880	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

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

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	45	0	0
30	40	0	0				

Node S7202 Time-Area Diagram

Overrides Design Area	x	Depression Storage Area (m²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		

Applies to All storms

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-5	0.400	5-10	0.400	10-15	0.400	15-20	0.400

Node H6808 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.515
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7801 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	1.157
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

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Node H7907 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.417
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7908 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.206
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7905 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.265
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7906 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.417
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H8001 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.620
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H8002 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.415
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node S33 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.600
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node S34 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	129.960	Product Number	CTL-SHE-0061-2000-1490-2000
Design Depth (m)	1.490	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	2.0	Min Node Diameter (mm)	1200

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Node S33 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	130.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	397.5	0.0	0.400	489.2	0.0	0.800	590.5	0.0	1.200	700.7	0.0	1.500	789.3	0.0
0.100	419.3	0.0	0.500	513.7	0.0	0.900	617.2	0.0	1.300	729.7	0.0	1.750	867.3	0.0
0.200	442.0	0.0	0.600	538.7	0.0	1.000	644.4	0.0	1.400	759.2	0.0			
0.300	465.3	0.0	0.700	564.3	0.0	1.100	672.3	0.0	1.450	774.4	0.0			

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 60 minute summer	43.138	11.400	30 year +40% CC 480 minute summer	36.156	9.555
2 year 60 minute winter	28.660	11.400	30 year +40% CC 480 minute winter	24.021	9.555
2 year 120 minute summer	30.650	8.100	30 year +40% CC 600 minute summer	29.355	8.029
2 year 120 minute winter	20.363	8.100	30 year +40% CC 600 minute winter	20.057	8.029
2 year 180 minute summer	25.002	6.434	30 year +40% CC 720 minute summer	25.949	6.954
2 year 180 minute winter	16.252	6.434	30 year +40% CC 720 minute winter	17.439	6.954
2 year 240 minute summer	20.434	5.400	30 year +40% CC 960 minute summer	21.003	5.531
2 year 240 minute winter	13.576	5.400	30 year +40% CC 960 minute winter	13.913	5.531
2 year 360 minute summer	16.127	4.150	30 year +40% CC 1440 minute summer	14.834	3.976
2 year 360 minute winter	10.483	4.150	30 year +40% CC 1440 minute winter	9.969	3.976
2 year 480 minute summer	12.844	3.394	100 year +45% CC 60 minute summer	222.215	58.725
2 year 480 minute winter	8.533	3.394	100 year +45% CC 60 minute winter	147.635	58.725
2 year 600 minute summer	10.561	2.889	100 year +45% CC 120 minute summer	133.055	35.162
2 year 600 minute winter	7.216	2.889	100 year +45% CC 120 minute winter	88.399	35.163
2 year 720 minute summer	9.421	2.525	100 year +45% CC 180 minute summer	101.277	26.062
2 year 720 minute winter	6.332	2.525	100 year +45% CC 180 minute winter	65.832	26.062
2 year 960 minute summer	7.728	2.035	100 year +45% CC 240 minute summer	79.696	21.061
2 year 960 minute winter	5.119	2.035	100 year +45% CC 240 minute winter	52.948	21.061
2 year 1440 minute summer	5.581	1.496	100 year +45% CC 360 minute summer	60.479	15.563
2 year 1440 minute winter	3.751	1.496	100 year +45% CC 360 minute winter	39.313	15.563
30 year +40% CC 60 minute summer	165.585	43.759	100 year +45% CC 480 minute summer	47.440	12.537
30 year +40% CC 60 minute winter	110.011	43.759	100 year +45% CC 480 minute winter	31.518	12.537
30 year +40% CC 120 minute summer	101.267	26.762	100 year +45% CC 600 minute summer	38.680	10.580
30 year +40% CC 120 minute winter	67.279	26.762	100 year +45% CC 600 minute winter	26.428	10.580
30 year +40% CC 180 minute summer	77.485	19.939	100 year +45% CC 720 minute summer	34.310	9.195
30 year +40% CC 180 minute winter	50.367	19.939	100 year +45% CC 720 minute winter	23.058	9.195
30 year +40% CC 240 minute summer	61.051	16.134	100 year +45% CC 960 minute summer	27.878	7.341
30 year +40% CC 240 minute winter	40.561	16.134	100 year +45% CC 960 minute winter	18.467	7.341
30 year +40% CC 360 minute summer	46.303	11.915	100 year +45% CC 1440 minute summer	19.792	5.305
30 year +40% CC 360 minute winter	30.098	11.915	100 year +45% CC 1440 minute winter	13.302	5.305

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Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)		Status
60 minute summer	H6808	33	145.018	0.031	2.3	0.0447	0.0000	OK	
60 minute summer	H7801	33	144.781	0.039	6.4	0.0565	0.0000	OK	
60 minute summer	H7907	33	144.018	0.050	13.5	0.0709	0.0000	OK	
60 minute summer	H7908	33	140.840	0.054	16.5	0.0777	0.0000	OK	
60 minute summer	H7905	33	139.927	0.058	19.5	0.0829	0.0000	OK	
60 minute summer	H7906	33	138.448	0.064	23.3	0.0916	0.0000	OK	
60 minute summer	H8001	34	135.423	0.080	29.3	0.1148	0.0000	OK	
60 minute summer	H8002	34	133.218	0.091	35.6	0.1299	0.0000	OK	
60 minute summer	H8105	34	132.116	0.115	39.3	0.1641	0.0000	OK	
60 minute summer	H8103	34	131.512	0.095	39.4	0.1366	0.0000	OK	
60 minute summer	H8104	34	131.200	0.125	50.2	0.1785	0.0000	OK	
60 minute summer	H8207	34	130.313	0.129	57.9	0.1845	0.0000	OK	
60 minute summer	H8206	34	129.898	0.138	62.9	0.1977	0.0000	OK	
60 minute summer	S21	33	132.074	0.074	14.3	0.1061	0.0000	OK	
60 minute summer	S22	33	131.552	0.102	18.0	0.1459	0.0000	OK	
60 minute summer	S23	33	131.288	0.088	21.5	0.1264	0.0000	OK	
60 minute summer	S24	34	130.886	0.086	23.4	0.1232	0.0000	OK	
960 minute winter	S25	930	130.373	0.147	4.1	0.2111	0.0000	OK	
960 minute winter	S26	930	130.372	0.202	4.7	0.2897	0.0000	OK	
960 minute winter	S27	930	130.372	0.222	4.7	0.3183	0.0000	OK	
60 minute summer	S28	33	131.090	0.065	11.9	0.0925	0.0000	OK	
60 minute summer	S29	33	130.842	0.117	35.2	0.1668	0.0000	OK	
60 minute summer	S30	33	130.585	0.135	35.2	0.1931	0.0000	OK	
60 minute summer	S31	34	130.379	0.129	35.2	0.1848	0.0000	OK	
960 minute winter	S32	885	130.374	0.224	9.6	0.3952	0.0000	OK	
960 minute winter	S33	930	130.373	0.372	12.0	164.2837	0.0000	SURCHARGED	
960 minute winter	S34	915	130.373	0.413	1.9	2.3627	0.0000	SURCHARGED	
60 minute summer	H8205	34	129.590	0.140	67.8	0.2009	0.0000	OK	

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H6808	1.000	H7801	2.3	0.578	0.042	0.0875	
60 minute summer	H7801	1.001	H7907	6.4	1.152	0.067	0.1305	
60 minute summer	H7907	1.002	H7908	13.4	1.945	0.107	0.3803	
60 minute summer	H7908	1.003	H7905	16.5	2.135	0.122	0.1059	
60 minute summer	H7905	1.004	H7906	19.4	2.240	0.144	0.1928	
60 minute summer	H7906	1.005	H8001	23.2	2.122	0.178	0.5354	
60 minute summer	H8001	1.006	H8002	29.1	2.330	0.264	0.6013	
60 minute summer	H8002	1.007	H8105	35.6	1.677	0.202	0.9671	
60 minute summer	H8105	1.008	H8103	39.4	1.637	0.292	0.8340	
60 minute summer	H8103	1.009	H8104	39.4	1.462	0.136	0.4390	
60 minute summer	H8104	1.010	H8207	50.2	1.531	0.238	2.6391	
60 minute summer	H8207	1.011	H8206	57.5	1.639	0.240	1.0395	
60 minute summer	H8206	1.012	H8205	62.7	1.687	0.259	0.7913	
60 minute summer	S21	2.000	S22	14.3	1.001	0.237	0.5916	
60 minute summer	S22	2.001	S23	17.8	1.055	0.392	0.3854	
60 minute summer	S23	2.002	S24	21.5	1.270	0.180	0.5911	
60 minute summer	S24	2.003	S25	23.3	1.428	0.172	0.5501	
960 minute winter	S25	2.004	S26	4.1	0.476	0.035	0.7919	
960 minute winter	S26	2.005	S27	4.7	0.629	0.037	0.3123	
960 minute winter	S27	2.006	S33	4.6	0.559	0.009	3.4548	
60 minute summer	S28	3.000	S29	11.9	0.664	0.104	0.5121	
60 minute summer	S29	3.001	S30	35.2	1.467	0.281	0.3778	
60 minute summer	S30	3.002	S31	35.2	1.017	0.266	1.5773	
60 minute summer	S31	3.003	S32	35.1	1.208	0.236	0.5244	
960 minute winter	S32	3.004	S33	8.4	0.595	0.014	2.8182	
960 minute winter	S33	2.007	S34	1.9	0.218	0.048	0.2706	
960 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
60 minute summer	H8205	1.013	H8204	67.5	1.904	0.256	0.6173	

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Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H8204	35	129.279	0.129	67.5	0.1845	0.0000	OK
60 minute summer	S7202	40	130.155	0.155	105.3	0.2219	0.0000	OK
60 minute summer	S8208	41	129.555	0.125	105.3	0.1782	0.0000	OK
60 minute summer	S8201	35	128.982	0.172	171.5	0.2467	0.0000	OK
60 minute summer	S8203	35	128.181	0.161	171.2	0.2308	0.0000	OK
60 minute summer	S7324	36	127.945	0.145	171.3	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H8204	1.014	S8201	67.8	1.644	0.228	0.6394	
60 minute summer	S7202	4.000	S8208	105.3	2.518	0.219	1.0915	
60 minute summer	S8208	4.001	S8201	105.2	2.561	0.150	0.5890	
60 minute summer	S8201	1.015	S8203	171.2	3.207	0.261	1.0355	
60 minute summer	S8203	1.016	S7324	171.3	1.799	0.233	1.6247	379.7

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Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.047	0.060	8.6	0.0854	0.0000	OK
60 minute summer	H7801	33	144.819	0.078	24.5	0.1111	0.0000	OK
60 minute summer	H7907	33	144.068	0.100	51.5	0.1427	0.0000	OK
60 minute summer	H7908	33	140.902	0.116	63.5	0.1665	0.0000	OK
60 minute summer	H7905	33	139.994	0.125	75.2	0.1789	0.0000	OK
60 minute summer	H7906	33	138.520	0.136	89.8	0.1948	0.0000	OK
60 minute summer	H8001	33	135.539	0.196	113.1	0.2798	0.0000	OK
60 minute summer	H8002	34	133.346	0.219	137.8	0.3139	0.0000	OK
60 minute summer	H8105	34	132.524	0.523	150.8	0.7486	0.0000	SURCHARGED
60 minute summer	H8103	36	131.664	0.248	150.5	0.3549	0.0000	OK
60 minute summer	H8104	36	131.577	0.502	191.6	0.7177	0.0000	SURCHARGED
60 minute summer	H8207	36	130.902	0.718	213.5	1.0277	0.0000	SURCHARGED
60 minute summer	H8206	36	130.535	0.775	219.4	1.1086	0.0000	SURCHARGED
60 minute summer	S21	34	132.420	0.420	54.9	0.6009	0.0000	SURCHARGED
60 minute summer	S22	34	131.928	0.478	67.0	0.6837	0.0000	SURCHARGED
60 minute summer	S23	34	131.391	0.191	80.1	0.2734	0.0000	OK
1440 minute summer	S24	1440	131.084	0.284	9.0	0.4063	0.0000	OK
1440 minute winter	S25	1440	131.079	0.854	7.8	1.2226	0.0000	SURCHARGED
1440 minute winter	S26	1440	131.085	0.915	8.9	1.3095	0.0000	SURCHARGED
1440 minute summer	S27	1440	131.078	0.928	13.1	1.3284	0.0000	SURCHARGED
60 minute summer	S28	33	131.161	0.136	45.8	0.1952	0.0000	OK
60 minute summer	S29	33	131.130	0.405	135.0	0.5797	0.0000	SURCHARGED
1440 minute winter	S30	1410	131.079	0.629	9.1	0.8996	0.0000	SURCHARGED
1440 minute winter	S31	1410	131.079	0.829	8.8	1.1859	0.0000	SURCHARGED
1440 minute winter	S32	1410	131.079	0.929	9.7	1.6411	0.0000	SURCHARGED
1440 minute winter	S33	1410	131.079	1.079	23.6	569.6279	0.0000	SURCHARGED
1440 minute winter	S34	1410	131.079	1.119	1.8	6.4051	0.0000	SURCHARGED
60 minute summer	H8205	36	130.198	0.748	230.6	1.0702	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H6808	1.000	H7801	8.6	0.838	0.156	0.2251	
60 minute summer	H7801	1.001	H7907	24.5	1.685	0.258	0.3414	
60 minute summer	H7907	1.002	H7908	51.4	2.731	0.409	1.0373	
60 minute summer	H7908	1.003	H7905	63.5	2.929	0.470	0.2977	
60 minute summer	H7905	1.004	H7906	75.2	3.147	0.556	0.5309	
60 minute summer	H7906	1.005	H8001	89.7	2.859	0.687	1.5075	
60 minute summer	H8001	1.006	H8002	112.4	3.130	1.019	1.8361	
60 minute summer	H8002	1.007	H8105	136.6	2.176	0.777	2.8445	
60 minute summer	H8105	1.008	H8103	150.5	2.138	1.115	2.4096	
60 minute summer	H8103	1.009	H8104	151.7	1.869	0.522	1.5234	
60 minute summer	H8104	1.010	H8207	182.5	1.954	0.867	8.8835	
60 minute summer	H8207	1.011	H8206	197.8	1.974	0.824	3.2609	
60 minute summer	H8206	1.012	H8205	215.8	2.041	0.892	2.3452	
60 minute summer	S21	2.000	S22	53.1	1.336	0.881	1.6311	
60 minute summer	S22	2.001	S23	66.8	1.681	1.469	0.8886	
60 minute summer	S23	2.002	S24	80.4	1.741	0.676	1.6141	
1440 minute summer	S24	2.003	S25	9.0	0.921	0.066	2.3471	
1440 minute winter	S25	2.004	S26	7.7	0.448	0.065	1.7319	
1440 minute winter	S26	2.005	S27	8.8	0.582	0.069	0.5352	
1440 minute summer	S27	2.006	S33	12.8	0.590	0.024	6.9817	
60 minute summer	S28	3.000	S29	45.4	0.834	0.396	1.4280	
60 minute summer	S29	3.001	S30	134.7	1.914	1.074	1.0852	
1440 minute winter	S30	3.002	S31	8.8	0.639	0.067	5.0310	
1440 minute winter	S31	3.003	S32	9.7	0.618	0.065	1.9859	
1440 minute winter	S32	3.004	S33	14.4	0.664	0.024	5.6919	
1440 minute winter	S33	2.007	S34	1.8	0.176	0.044	0.2706	
1440 minute winter	S34	2.008	H8205	1.7	0.503	0.043	0.0639	
60 minute summer	H8205	1.013	H8204	226.4	2.201	0.859	1.9159	

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Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H8204	36	129.866	0.716	226.4	1.0251	0.0000	SURCHARGED
60 minute summer	S7202	39	130.505	0.505	404.1	0.7228	0.0000	SURCHARGED
60 minute summer	S8208	37	129.933	0.503	411.2	0.7199	0.0000	SURCHARGED
60 minute summer	S8201	37	129.579	0.769	629.9	1.1010	0.0000	SURCHARGED
60 minute summer	S8203	37	128.404	0.384	630.2	0.5498	0.0000	OK
60 minute summer	S7324	37	128.113	0.313	630.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H8204	1.014	S8201	225.2	2.042	0.756	1.7007	
60 minute summer	S7202	4.000	S8208	411.2	3.143	0.857	4.1206	
60 minute summer	S8208	4.001	S8201	413.2	3.240	0.588	2.0946	
60 minute summer	S8201	1.015	S8203	630.2	4.002	0.962	2.9313	
60 minute summer	S8203	1.016	S7324	630.5	2.394	0.858	4.4640	1437.1

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.057	0.070	11.5	0.0996	0.0000	OK
60 minute summer	H7801	33	144.832	0.091	32.9	0.1302	0.0000	OK
60 minute summer	H7907	33	144.086	0.118	69.1	0.1694	0.0000	OK
60 minute summer	H7908	33	140.929	0.143	85.4	0.2042	0.0000	OK
60 minute summer	H7905	34	140.058	0.189	101.7	0.2705	0.0000	OK
60 minute summer	H7906	35	139.303	0.919	118.4	1.3154	0.0000	SURCHARGED
60 minute summer	H8001	33	136.768	1.425	144.8	2.0392	6.3296	FLOOD
60 minute summer	H8002	34	134.369	1.242	154.7	1.7767	0.0000	FLOOD RISK
60 minute summer	H8105	34	133.501	1.500	159.7	2.1465	1.7035	FLOOD
60 minute summer	H8103	34	132.779	1.363	151.0	1.9508	0.0000	FLOOD RISK
60 minute summer	H8104	34	132.650	1.575	205.8	2.2538	0.2227	FLOOD
60 minute summer	H8207	34	131.759	1.575	237.1	2.2538	6.9465	FLOOD
60 minute summer	H8206	36	131.387	1.627	246.5	2.3285	0.0000	SURCHARGED
60 minute summer	S21	34	133.192	1.192	73.7	1.7054	0.0000	FLOOD RISK
60 minute summer	S22	34	132.300	0.850	90.2	1.2165	0.0000	SURCHARGED
60 minute summer	S23	34	131.446	0.246	107.9	0.3515	0.0000	OK
1440 minute summer	S24	1440	131.417	0.617	12.1	0.8830	0.0000	SURCHARGED
1440 minute summer	S25	1470	131.415	1.190	15.7	1.7024	0.0000	SURCHARGED
1440 minute summer	S26	1440	131.421	1.251	17.8	1.7900	0.0000	SURCHARGED
1440 minute summer	S27	1500	131.420	1.270	17.7	1.8171	0.0000	SURCHARGED
60 minute summer	S28	34	131.764	0.739	61.5	1.0569	0.0000	SURCHARGED
60 minute summer	S29	33	131.662	0.937	179.1	1.3403	0.0000	SURCHARGED
1440 minute summer	S30	1470	131.416	0.966	18.0	1.3824	0.0000	SURCHARGED
1440 minute summer	S31	1470	131.416	1.166	17.3	1.6687	0.0000	SURCHARGED
1440 minute summer	S32	1470	131.416	1.266	17.1	2.2372	0.0000	SURCHARGED
1440 minute summer	S33	1470	131.416	1.416	39.9	811.3301	0.0000	SURCHARGED
1440 minute summer	S34	1470	131.416	1.456	2.3	8.3365	0.0000	SURCHARGED
60 minute summer	H8205	37	131.034	1.584	259.0	2.2673	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H6808	1.000	H7801	11.5	0.904	0.208	0.2791	
60 minute summer	H7801	1.001	H7907	32.8	1.817	0.347	0.4247	
60 minute summer	H7907	1.002	H7908	69.1	2.942	0.550	1.3136	
60 minute summer	H7908	1.003	H7905	86.0	3.091	0.637	0.4154	
60 minute summer	H7905	1.004	H7906	98.7	3.260	0.730	0.8381	
60 minute summer	H7906	1.005	H8001	113.4	2.894	0.869	1.9415	
60 minute summer	H8001	1.006	H8002	120.6	3.048	1.094	1.9114	
60 minute summer	H8002	1.007	H8105	140.8	2.182	0.801	3.1889	
60 minute summer	H8105	1.008	H8103	151.0	2.145	1.119	2.4415	
60 minute summer	H8103	1.009	H8104	150.7	1.805	0.519	1.7911	
60 minute summer	H8104	1.010	H8207	197.6	1.950	0.939	8.8835	
60 minute summer	H8207	1.011	H8206	217.1	1.969	0.905	3.2609	
60 minute summer	H8206	1.012	H8205	238.5	2.163	0.986	2.3452	
60 minute summer	S21	2.000	S22	71.5	1.797	1.186	1.6311	
60 minute summer	S22	2.001	S23	89.9	2.261	1.977	0.8970	
60 minute summer	S23	2.002	S24	108.0	1.807	0.908	2.2494	
1440 minute summer	S24	2.003	S25	12.1	0.887	0.089	2.3710	
1440 minute summer	S25	2.004	S26	15.5	0.423	0.131	1.7319	
1440 minute summer	S26	2.005	S27	17.7	0.556	0.138	0.5352	
1440 minute summer	S27	2.006	S33	17.6	0.625	0.033	6.9817	
60 minute summer	S28	3.000	S29	60.1	0.853	0.523	1.9798	
60 minute summer	S29	3.001	S30	177.0	2.514	1.412	1.1083	
1440 minute summer	S30	3.002	S31	17.3	0.613	0.131	5.0310	
1440 minute summer	S31	3.003	S32	17.1	0.596	0.115	1.9859	
1440 minute summer	S32	3.004	S33	17.0	0.641	0.029	5.6919	
1440 minute summer	S33	2.007	S34	2.3	0.259	0.057	0.2706	
1440 minute summer	S34	2.008	H8205	2.0	0.522	0.049	0.0696	
60 minute summer	H8205	1.013	H8204	246.1	2.232	0.934	1.9159	

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H8204	38	130.705	1.554	246.1	2.2245	0.0000	SURCHARGED
60 minute summer	S7202	39	132.111	2.111	542.2	3.0215	0.0000	SURCHARGED
60 minute summer	S8208	39	131.076	1.645	543.0	2.3547	0.0000	SURCHARGED
60 minute summer	S8201	39	130.403	1.593	781.9	2.2799	0.0000	SURCHARGED
60 minute summer	S8203	39	128.631	0.611	782.0	0.8742	0.0000	SURCHARGED
60 minute summer	S7324	39	128.217	0.417	782.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H8204	1.014	S8201	242.1	2.196	0.813	1.7007	
60 minute summer	S7202	4.000	S8208	543.0	3.428	1.132	4.1206	
60 minute summer	S8208	4.001	S8201	544.6	3.438	0.775	2.0946	
60 minute summer	S8201	1.015	S8203	782.0	4.936	1.194	3.0698	
60 minute summer	S8203	1.016	S7324	782.1	2.468	1.064	5.3153	1847.1

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EXISTING WINDSOR DRIVE DRAINAGE + WEST DEVELOPMENT AREA - ALL EVENTS

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Circular Link Type

Template	Freeform Carrier	Barrels	1	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)
100 | 150

Twin Link Type

Template	Freeform Carrier	Barrels	2	Follow Ground	x
Shape	Circular	Auto Increment (mm)	75		

Available Diameters (mm)
150

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
H6808	0.020	5.00	146.412	1350	401697.439	161876.655	1.425	144.987
H7801	0.037	5.00	146.166	1350	401713.855	161891.185	1.425	144.741
H7907	0.065	5.00	145.393	1350	401731.373	161906.803	1.425	143.968
H7908	0.029	5.00	142.211	1350	401769.280	161946.748	1.425	140.786
H7905	0.028	5.00	141.294	1350	401777.615	161957.666	1.425	139.869
H7906	0.035	5.00	139.809	1350	401790.716	161975.627	1.425	138.384
H8001	0.056	5.00	136.768	1350	401815.128	162017.903	1.425	135.343
H8002	0.061	5.00	134.627	1350	401834.219	162062.008	1.500	133.127
H8105	0.036	5.00	133.501	1350	401846.306	162105.649	1.500	132.001
H8103			132.991	1350	401849.746	162140.149	1.575	131.416
H8104	0.106	5.00	132.650	1350	401849.680	162156.388	1.575	131.075
H8207	0.075	5.00	131.759	1350	401849.600	162236.930	1.575	130.184
H8206	0.053	5.00	132.443	1350	401849.685	162266.494	2.683	129.760
S21	0.133	5.00	133.401	1350	401935.393	162137.296	1.401	132.000
S22	0.034	5.00	132.929	1350	401934.890	162178.305	1.479	131.450
S23	0.034	5.00	132.739	1350	401917.616	162193.162	1.539	131.200
S24	0.018	5.00	132.325	1350	401917.601	162228.111	1.525	130.800
S25	0.066	5.00	131.750	1350	401883.931	162228.093	1.525	130.225
S26	0.042	5.00	131.750	1350	401878.801	162242.933	1.580	130.170
S27			131.750	1350	401877.144	162247.494	1.600	130.150
S28	0.111	5.00	132.555	1350	401896.813	162192.538	1.530	131.025
S29	0.217	5.00	132.273	1350	401868.846	162189.658	1.548	130.725
S30			132.054	1350	401853.613	162193.611	1.604	130.450
S31			131.750	1350	401853.989	162239.223	1.500	130.250
S32			131.750	1500	401868.267	162250.024	1.600	130.150
S33	0.042	5.00	131.750	1500	401867.381	162270.288	1.750	130.000
S34			131.750	2700	401862.465	162274.931	1.790	129.960
H8205	0.037	5.00	132.950	1350	401849.082	162287.748	3.500	129.450
H8204			133.280	1350	401831.765	162289.104	4.130	129.150
S7202		5.00	132.920	1350	401786.819	162263.249	2.920	130.000
S8208			132.430	1350	401810.955	162272.932	3.000	129.430
S8201	0.080	5.00	131.900	1350	401816.990	162284.694	3.090	128.810

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Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
S8203			130.620	1350	401799.417	162292.854	2.600	128.020
S7324			128.450	1350	401792.231	162308.316	0.650	127.800

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	H6808	H7801	21.922	0.600	144.987	144.741	0.246	89.1	225	5.26	50.0
1.001	H7801	H7907	23.469	0.600	144.741	143.968	0.773	30.4	225	5.43	50.0
1.002	H7907	H7908	55.068	0.600	143.968	140.786	3.182	17.3	225	5.72	48.9
1.003	H7908	H7905	13.736	0.600	140.786	139.869	0.917	15.0	225	5.79	48.6
1.004	H7905	H7906	22.231	0.600	139.869	138.384	1.485	15.0	225	5.89	48.2
1.005	H7906	H8001	48.817	0.600	138.384	135.343	3.041	16.1	225	6.14	47.4
1.006	H8001	H8002	48.060	0.600	135.343	133.202	2.141	22.4	225	6.43	46.4
1.007	H8002	H8105	45.284	0.600	133.127	132.001	1.126	40.2	300	6.74	45.3
1.008	H8105	H8103	34.671	0.600	132.001	131.491	0.510	68.0	300	7.04	44.3
1.009	H8103	H8104	16.239	0.600	131.416	131.075	0.341	47.6	375	7.14	44.0
1.010	H8104	H8207	80.542	0.600	131.075	130.184	0.891	90.4	375	7.84	41.9
1.011	H8207	H8206	29.565	0.600	130.184	129.760	0.424	69.7	375	8.07	41.3
1.012	H8206	H8205	21.263	0.600	129.760	129.450	0.310	68.6	375	8.23	40.8
2.000	S21	S22	41.012	0.600	132.000	131.450	0.550	74.6	225	5.45	49.9
2.001	S22	S23	22.784	0.600	131.450	131.275	0.175	130.2	225	5.78	48.7
2.002	S23	S24	34.949	0.600	131.200	130.800	0.400	87.4	300	6.13	47.4
2.003	S24	S25	33.670	0.600	130.800	130.300	0.500	67.3	300	6.42	46.4
2.004	S25	S26	15.702	0.600	130.225	130.170	0.055	285.5	375	6.67	45.6
2.005	S26	S27	4.852	0.600	130.170	130.150	0.020	242.6	375	6.74	45.3
2.006	S27	S33	24.786	0.600	130.150	130.000	0.150	165.2	600	6.96	44.6
3.000	S28	S29	28.115	0.600	131.025	130.725	0.300	93.7	300	5.29	50.0
3.001	S29	S30	15.738	0.600	130.725	130.525	0.200	78.7	300	5.44	50.0
3.002	S30	S31	45.613	0.600	130.450	130.250	0.200	228.1	375	6.07	47.6

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	1.385	55.1	3.6	1.200	1.200	0.020	0.0	39	0.791
1.001	2.383	94.7	10.3	1.200	1.200	0.057	0.0	50	1.571
1.002	3.160	125.7	21.6	1.200	1.200	0.122	0.0	63	2.379
1.003	3.398	135.1	26.5	1.200	1.200	0.151	0.0	67	2.654
1.004	3.399	135.1	31.2	1.200	1.200	0.179	0.0	73	2.780
1.005	3.282	130.5	36.6	1.200	1.200	0.214	0.0	81	2.828
1.006	2.773	110.3	45.2	1.200	1.200	0.270	0.0	101	2.644
1.007	2.486	175.7	54.2	1.200	1.200	0.331	0.0	114	2.198
1.008	1.909	135.0	58.7	1.200	1.200	0.367	0.0	139	1.847
1.009	2.631	290.6	58.3	1.200	1.200	0.367	0.0	113	2.072
1.010	1.906	210.5	71.6	1.200	1.200	0.473	0.0	151	1.731
1.011	2.172	239.9	81.7	1.200	2.308	0.548	0.0	151	1.972
1.012	2.190	241.9	88.7	2.308	3.125	0.601	0.0	157	2.029
2.000	1.516	60.3	24.0	1.176	1.254	0.133	0.0	99	1.433
2.001	1.144	45.5	29.4	1.254	1.239	0.167	0.0	131	1.213
2.002	1.683	118.9	34.4	1.239	1.225	0.201	0.0	110	1.464
2.003	1.918	135.6	36.7	1.225	1.150	0.219	0.0	106	1.639
2.004	1.067	117.9	46.9	1.150	1.205	0.285	0.0	164	1.009
2.005	1.159	128.0	53.5	1.205	1.225	0.327	0.0	169	1.108
2.006	1.891	534.8	52.7	1.000	1.150	0.327	0.0	126	1.224
3.000	1.624	114.8	20.1	1.230	1.248	0.111	0.0	85	1.231
3.001	1.774	125.4	59.2	1.248	1.229	0.328	0.0	145	1.749
3.002	1.195	132.0	56.4	1.229	1.125	0.328	0.0	171	1.150

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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)
3.003	S31	S32	18.005	0.600	130.250	130.150	0.100	180.1	375	6.30	46.8
3.004	S32	S33	20.207	0.600	130.150	130.000	0.150	134.7	600	6.46	46.3
2.007	S33	S34	6.803	0.600	130.000	129.960	0.040	170.1	225	7.07	44.2
2.008	S34	H8205	18.511	0.600	129.960	129.850	0.110	168.3	225	7.38	43.3
1.013	H8205	H8204	17.370	0.600	129.450	129.150	0.300	57.9	375	8.35	40.5
1.014	H8204	S8201	15.419	0.600	129.150	128.810	0.340	45.4	375	8.45	40.3
4.000	S7202	S8208	26.007	0.600	130.000	129.430	0.570	45.6	450	5.14	50.0
4.001	S8208	S8201	13.220	0.600	129.430	128.810	0.620	21.3	450	5.19	50.0
1.015	S8201	S8203	19.375	0.600	128.810	128.020	0.790	24.5	450	8.53	40.1
1.016	S8203	S7324	17.050	0.600	128.020	127.800	0.220	77.5	450	8.65	39.8

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)
3.003	1.347	148.8	55.5	1.125	1.225	0.328	0.0	159	1.253
3.004	2.096	592.7	54.9	1.000	1.150	0.328	0.0	122	1.332
2.007	0.999	39.7	111.3	1.525	1.565	0.697	0.0	225	1.018
2.008	1.005	40.0	109.0	1.565	2.875	0.697	0.0	225	1.023
1.013	2.385	263.4	195.6	3.125	3.755	1.335	0.0	241	2.601
1.014	2.696	297.8	194.4	3.755	2.715	1.335	0.0	222	2.867
4.000	3.016	479.6	0.0	2.470	2.550	0.000	0.0	0	0.000
4.001	4.417	702.5	0.0	2.550	2.640	0.000	0.0	0	0.000
1.015	4.118	654.9	205.0	2.640	2.150	1.415	0.0	173	3.664
1.016	2.311	735.0	203.4	2.150	0.200	1.415	0.0	161	1.988

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	21.922	89.1	225	Circular	146.412	144.987	1.200	146.166	144.741	1.200
1.001	23.469	30.4	225	Circular	146.166	144.741	1.200	145.393	143.968	1.200
1.002	55.068	17.3	225	Circular	145.393	143.968	1.200	142.211	140.786	1.200
1.003	13.736	15.0	225	Circular	142.211	140.786	1.200	141.294	139.869	1.200
1.004	22.231	15.0	225	Circular	141.294	139.869	1.200	139.809	138.384	1.200
1.005	48.817	16.1	225	Circular	139.809	138.384	1.200	136.768	135.343	1.200
1.006	48.060	22.4	225	Circular	136.768	135.343	1.200	134.627	133.202	1.200
1.007	45.284	40.2	300	Circular	134.627	133.127	1.200	133.501	132.001	1.200
1.008	34.671	68.0	300	Circular	133.501	132.001	1.200	132.991	131.491	1.200
1.009	16.239	47.6	375	Circular	132.991	131.416	1.200	132.650	131.075	1.200
1.010	80.542	90.4	375	Circular	132.650	131.075	1.200	131.759	130.184	1.200
1.011	29.565	69.7	375	Circular	131.759	130.184	1.200	132.443	129.760	2.308
1.012	21.263	68.6	375	Circular	132.443	129.760	2.308	132.950	129.450	3.125

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	H6808	1350	Manhole	Adoptable	H7801	1350	Manhole	Adoptable
1.001	H7801	1350	Manhole	Adoptable	H7907	1350	Manhole	Adoptable
1.002	H7907	1350	Manhole	Adoptable	H7908	1350	Manhole	Adoptable
1.003	H7908	1350	Manhole	Adoptable	H7905	1350	Manhole	Adoptable
1.004	H7905	1350	Manhole	Adoptable	H7906	1350	Manhole	Adoptable
1.005	H7906	1350	Manhole	Adoptable	H8001	1350	Manhole	Adoptable
1.006	H8001	1350	Manhole	Adoptable	H8002	1350	Manhole	Adoptable
1.007	H8002	1350	Manhole	Adoptable	H8105	1350	Manhole	Adoptable
1.008	H8105	1350	Manhole	Adoptable	H8103	1350	Manhole	Adoptable
1.009	H8103	1350	Manhole	Adoptable	H8104	1350	Manhole	Adoptable
1.010	H8104	1350	Manhole	Adoptable	H8207	1350	Manhole	Adoptable
1.011	H8207	1350	Manhole	Adoptable	H8206	1350	Manhole	Adoptable
1.012	H8206	1350	Manhole	Adoptable	H8205	1350	Manhole	Adoptable

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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)
2.000	41.012	74.6	225	Circular	133.401	132.000	1.176	132.929	131.450	1.254
2.001	22.784	130.2	225	Circular	132.929	131.450	1.254	132.739	131.275	1.239
2.002	34.949	87.4	300	Circular	132.739	131.200	1.239	132.325	130.800	1.225
2.003	33.670	67.3	300	Circular	132.325	130.800	1.225	131.750	130.300	1.150
2.004	15.702	285.5	375	Circular	131.750	130.225	1.150	131.750	130.170	1.205
2.005	4.852	242.6	375	Circular	131.750	130.170	1.205	131.750	130.150	1.225
2.006	24.786	165.2	600	Circular	131.750	130.150	1.000	131.750	130.000	1.150
3.000	28.115	93.7	300	Circular	132.555	131.025	1.230	132.273	130.725	1.248
3.001	15.738	78.7	300	Circular	132.273	130.725	1.248	132.054	130.525	1.229
3.002	45.613	228.1	375	Circular	132.054	130.450	1.229	131.750	130.250	1.125
3.003	18.005	180.1	375	Circular	131.750	130.250	1.125	131.750	130.150	1.225
3.004	20.207	134.7	600	Circular	131.750	130.150	1.000	131.750	130.000	1.150
2.007	6.803	170.1	225	Circular	131.750	130.000	1.525	131.750	129.960	1.565
2.008	18.511	168.3	225	Circular	131.750	129.960	1.565	132.950	129.850	2.875
1.013	17.370	57.9	375	Circular	132.950	129.450	3.125	133.280	129.150	3.755
1.014	15.419	45.4	375	Circular	133.280	129.150	3.755	131.900	128.810	2.715
4.000	26.007	45.6	450	Circular	132.920	130.000	2.470	132.430	129.430	2.550
4.001	13.220	21.3	450	Circular	132.430	129.430	2.550	131.900	128.810	2.640
1.015	19.375	24.5	450	Circular	131.900	128.810	2.640	130.620	128.020	2.150
1.016	17.050	77.5	450	Twin	130.620	128.020	2.150	128.450	127.800	0.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.000	S21	1350	Manhole	Adoptable	S22	1350	Manhole	Adoptable
2.001	S22	1350	Manhole	Adoptable	S23	1350	Manhole	Adoptable
2.002	S23	1350	Manhole	Adoptable	S24	1350	Manhole	Adoptable
2.003	S24	1350	Manhole	Adoptable	S25	1350	Manhole	Adoptable
2.004	S25	1350	Manhole	Adoptable	S26	1350	Manhole	Adoptable
2.005	S26	1350	Manhole	Adoptable	S27	1350	Manhole	Adoptable
2.006	S27	1350	Manhole	Adoptable	S33	1500	Manhole	Adoptable
3.000	S28	1350	Manhole	Adoptable	S29	1350	Manhole	Adoptable
3.001	S29	1350	Manhole	Adoptable	S30	1350	Manhole	Adoptable
3.002	S30	1350	Manhole	Adoptable	S31	1350	Manhole	Adoptable
3.003	S31	1350	Manhole	Adoptable	S32	1500	Manhole	Adoptable
3.004	S32	1500	Manhole	Adoptable	S33	1500	Manhole	Adoptable
2.007	S33	1500	Manhole	Adoptable	S34	2700	Manhole	Adoptable
2.008	S34	2700	Manhole	Adoptable	H8205	1350	Manhole	Adoptable
1.013	H8205	1350	Manhole	Adoptable	H8204	1350	Manhole	Adoptable
1.014	H8204	1350	Manhole	Adoptable	S8201	1350	Manhole	Adoptable
4.000	S7202	1350	Manhole	Adoptable	S8208	1350	Manhole	Adoptable
4.001	S8208	1350	Manhole	Adoptable	S8201	1350	Manhole	Adoptable
1.015	S8201	1350	Manhole	Adoptable	S8203	1350	Manhole	Adoptable
1.016	S8203	1350	Manhole	Adoptable	S7324	1350	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H6808	401697.439	161876.655	146.412	1.425	1350				
						0	1.000	144.987	225
H7801	401713.855	161891.185	146.166	1.425	1350		1	1.000	144.741	225
						0	1.001	144.741	225

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
H7907	401731.373	161906.803	145.393	1.425	1350	1	1.001	143.968	225
						0	1.002	143.968	225
H7908	401769.280	161946.748	142.211	1.425	1350	1	1.002	140.786	225
						0	1.003	140.786	225
H7905	401777.615	161957.666	141.294	1.425	1350	1	1.003	139.869	225
						0	1.004	139.869	225
H7906	401790.716	161975.627	139.809	1.425	1350	1	1.004	138.384	225
						0	1.005	138.384	225
H8001	401815.128	162017.903	136.768	1.425	1350	1	1.005	135.343	225
						0	1.006	135.343	225
H8002	401834.219	162062.008	134.627	1.500	1350	1	1.006	133.202	225
						0	1.007	133.127	300
H8105	401846.306	162105.649	133.501	1.500	1350	1	1.007	132.001	300
						0	1.008	132.001	300
H8103	401849.746	162140.149	132.991	1.575	1350	1	1.008	131.491	300
						0	1.009	131.416	375
H8104	401849.680	162156.388	132.650	1.575	1350	1	1.009	131.075	375
						0	1.010	131.075	375
H8207	401849.600	162236.930	131.759	1.575	1350	1	1.010	130.184	375
						0	1.011	130.184	375
H8206	401849.685	162266.494	132.443	2.683	1350	1	1.011	129.760	375
						0	1.012	129.760	375
S21	401935.393	162137.296	133.401	1.401	1350	0	2.000	132.000	225
S22	401934.890	162178.305	132.929	1.479	1350	1	2.000	131.450	225
						0	2.001	131.450	225
S23	401917.616	162193.162	132.739	1.539	1350	1	2.001	131.275	225
						0	2.002	131.200	300

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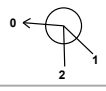
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S24	401917.601	162228.111	132.325	1.525	1350	1	2.002	130.800	300
						0	2.003	130.800	300
S25	401883.931	162228.093	131.750	1.525	1350	1	2.003	130.300	300
						0	2.004	130.225	375
S26	401878.801	162242.933	131.750	1.580	1350	1	2.004	130.170	375
						0	2.005	130.170	375
S27	401877.144	162247.494	131.750	1.600	1350	1	2.005	130.150	375
						0	2.006	130.150	600
S28	401896.813	162192.538	132.555	1.530	1350				
						0	3.000	131.025	300
S29	401868.846	162189.658	132.273	1.548	1350	1	3.000	130.725	300
						0	3.001	130.725	300
S30	401853.613	162193.611	132.054	1.604	1350	1	3.001	130.525	300
						0	3.002	130.450	375
S31	401853.989	162239.223	131.750	1.500	1350	1	3.002	130.250	375
						0	3.003	130.250	375
S32	401868.267	162250.024	131.750	1.600	1500	1	3.003	130.150	375
						0	3.004	130.150	600
S33	401867.381	162270.288	131.750	1.750	1500	1	3.004	130.000	600
						2	2.006	130.000	600
						0	2.007	130.000	225
S34	401862.465	162274.931	131.750	1.790	2700	1	2.007	129.960	225
						0	2.008	129.960	225
H8205	401849.082	162287.748	132.950	3.500	1350	1	2.008	129.850	225
						2	1.012	129.450	375
									
						0	1.013	129.450	375
H8204	401831.765	162289.104	133.280	4.130	1350	1	1.013	129.150	375
						0	1.014	129.150	375
S7202	401786.819	162263.249	132.920	2.920	1350				
						0	4.000	130.000	450

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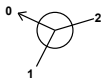
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S8208	401810.955	162272.932	132.430	3.000	1350	1	4.000	129.430	450
						0	4.001	129.430	450
S8201	401816.990	162284.694	131.900	3.090	1350	 1	4.001	128.810	450
						2	1.014	128.810	375
						0	1.015	128.810	450
S8203	401799.417	162292.854	130.620	2.600	1350	1	1.015	128.020	450
						0	1.016	128.020	450
S7324	401792.231	162308.316	128.450	0.650	1350	1	1.016	127.800	450

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	2880	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

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

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	45	0	0
30	40	0	0				

Node S7202 Time-Area Diagram

Overrides Design Area	x	Depression Storage Area (m²)	0	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Depression Storage Depth (mm)	0		

Applies to All storms

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-5	0.400	5-10	0.400	10-15	0.400	15-20	0.400

Node H6808 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.515
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7801 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	1.157
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

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Node H7907 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.417
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7908 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.206
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7905 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.265
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H7906 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.417
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H8001 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.620
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node H8002 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.415
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node S33 ReFH2 Dynamic Hydrograph

Overrides Design Area	x	Evapo-transpiration (mm/day)	0
Overrides Design Additional Inflow	x	Area (ha)	0.600
Depression Storage Area (m²)	0	Region	England, Wales, NI
Depression Storage Depth (mm)	0	Include Baseflow	x

Applies to All storms

Node S34 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	129.960	Product Number	CTL-SHE-0061-2000-1490-2000
Design Depth (m)	1.490	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	2.0	Min Node Diameter (mm)	1200

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Node S33 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	130.000
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	397.5	0.0	0.400	489.2	0.0	0.800	590.5	0.0	1.200	700.7	0.0	1.500	789.3	0.0
0.100	419.3	0.0	0.500	513.7	0.0	0.900	617.2	0.0	1.300	729.7	0.0	1.750	867.3	0.0
0.200	442.0	0.0	0.600	538.7	0.0	1.000	644.4	0.0	1.400	759.2	0.0			
0.300	465.3	0.0	0.700	564.3	0.0	1.100	672.3	0.0	1.450	774.4	0.0			

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 60 minute summer	43.138	11.400	30 year +40% CC 480 minute summer	36.156	9.555
2 year 60 minute winter	28.660	11.400	30 year +40% CC 480 minute winter	24.021	9.555
2 year 120 minute summer	30.650	8.100	30 year +40% CC 600 minute summer	29.355	8.029
2 year 120 minute winter	20.363	8.100	30 year +40% CC 600 minute winter	20.057	8.029
2 year 180 minute summer	25.002	6.434	30 year +40% CC 720 minute summer	25.949	6.954
2 year 180 minute winter	16.252	6.434	30 year +40% CC 720 minute winter	17.439	6.954
2 year 240 minute summer	20.434	5.400	30 year +40% CC 960 minute summer	21.003	5.531
2 year 240 minute winter	13.576	5.400	30 year +40% CC 960 minute winter	13.913	5.531
2 year 360 minute summer	16.127	4.150	30 year +40% CC 1440 minute summer	14.834	3.976
2 year 360 minute winter	10.483	4.150	30 year +40% CC 1440 minute winter	9.969	3.976
2 year 480 minute summer	12.844	3.394	100 year +45% CC 60 minute summer	222.215	58.725
2 year 480 minute winter	8.533	3.394	100 year +45% CC 60 minute winter	147.635	58.725
2 year 600 minute summer	10.561	2.889	100 year +45% CC 120 minute summer	133.055	35.162
2 year 600 minute winter	7.216	2.889	100 year +45% CC 120 minute winter	88.399	35.163
2 year 720 minute summer	9.421	2.525	100 year +45% CC 180 minute summer	101.277	26.062
2 year 720 minute winter	6.332	2.525	100 year +45% CC 180 minute winter	65.832	26.062
2 year 960 minute summer	7.728	2.035	100 year +45% CC 240 minute summer	79.696	21.061
2 year 960 minute winter	5.119	2.035	100 year +45% CC 240 minute winter	52.948	21.061
2 year 1440 minute summer	5.581	1.496	100 year +45% CC 360 minute summer	60.479	15.563
2 year 1440 minute winter	3.751	1.496	100 year +45% CC 360 minute winter	39.313	15.563
30 year +40% CC 60 minute summer	165.585	43.759	100 year +45% CC 480 minute summer	47.440	12.537
30 year +40% CC 60 minute winter	110.011	43.759	100 year +45% CC 480 minute winter	31.518	12.537
30 year +40% CC 120 minute summer	101.267	26.762	100 year +45% CC 600 minute summer	38.680	10.580
30 year +40% CC 120 minute winter	67.279	26.762	100 year +45% CC 600 minute winter	26.428	10.580
30 year +40% CC 180 minute summer	77.485	19.939	100 year +45% CC 720 minute summer	34.310	9.195
30 year +40% CC 180 minute winter	50.367	19.939	100 year +45% CC 720 minute winter	23.058	9.195
30 year +40% CC 240 minute summer	61.051	16.134	100 year +45% CC 960 minute summer	27.878	7.341
30 year +40% CC 240 minute winter	40.561	16.134	100 year +45% CC 960 minute winter	18.467	7.341
30 year +40% CC 360 minute summer	46.303	11.915	100 year +45% CC 1440 minute summer	19.792	5.305
30 year +40% CC 360 minute winter	30.098	11.915	100 year +45% CC 1440 minute winter	13.302	5.305

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Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)		Status
60 minute summer	H6808	33	145.018	0.031	2.3	0.0447	0.0000	OK	
60 minute summer	H7801	33	144.781	0.039	6.4	0.0565	0.0000	OK	
60 minute summer	H7907	33	144.018	0.050	13.5	0.0709	0.0000	OK	
60 minute summer	H7908	33	140.840	0.054	16.5	0.0777	0.0000	OK	
60 minute summer	H7905	33	139.927	0.058	19.5	0.0829	0.0000	OK	
60 minute summer	H7906	33	138.448	0.064	23.3	0.0916	0.0000	OK	
60 minute summer	H8001	34	135.423	0.080	29.3	0.1148	0.0000	OK	
60 minute summer	H8002	34	133.218	0.091	35.6	0.1299	0.0000	OK	
60 minute summer	H8105	34	132.116	0.115	39.3	0.1641	0.0000	OK	
60 minute summer	H8103	34	131.512	0.095	39.4	0.1366	0.0000	OK	
60 minute summer	H8104	34	131.200	0.125	50.2	0.1785	0.0000	OK	
60 minute summer	H8207	34	130.313	0.129	57.9	0.1845	0.0000	OK	
60 minute summer	H8206	34	129.898	0.138	62.9	0.1977	0.0000	OK	
60 minute summer	S21	33	132.074	0.074	14.3	0.1061	0.0000	OK	
60 minute summer	S22	33	131.552	0.102	18.0	0.1459	0.0000	OK	
60 minute summer	S23	33	131.288	0.088	21.5	0.1264	0.0000	OK	
60 minute summer	S24	34	130.886	0.086	23.4	0.1232	0.0000	OK	
960 minute winter	S25	930	130.373	0.147	4.1	0.2111	0.0000	OK	
960 minute winter	S26	930	130.372	0.202	4.7	0.2897	0.0000	OK	
960 minute winter	S27	930	130.372	0.222	4.7	0.3183	0.0000	OK	
60 minute summer	S28	33	131.090	0.065	11.9	0.0925	0.0000	OK	
60 minute summer	S29	33	130.842	0.117	35.2	0.1668	0.0000	OK	
60 minute summer	S30	33	130.585	0.135	35.2	0.1931	0.0000	OK	
60 minute summer	S31	34	130.379	0.129	35.2	0.1848	0.0000	OK	
960 minute winter	S32	885	130.374	0.224	9.6	0.3952	0.0000	OK	
960 minute winter	S33	930	130.373	0.372	12.0	164.2837	0.0000	SURCHARGED	
960 minute winter	S34	915	130.373	0.413	1.9	2.3627	0.0000	SURCHARGED	
60 minute summer	H8205	34	129.590	0.140	67.8	0.2009	0.0000	OK	

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H6808	1.000	H7801	2.3	0.578	0.042	0.0875	
60 minute summer	H7801	1.001	H7907	6.4	1.152	0.067	0.1305	
60 minute summer	H7907	1.002	H7908	13.4	1.945	0.107	0.3803	
60 minute summer	H7908	1.003	H7905	16.5	2.135	0.122	0.1059	
60 minute summer	H7905	1.004	H7906	19.4	2.240	0.144	0.1928	
60 minute summer	H7906	1.005	H8001	23.2	2.122	0.178	0.5354	
60 minute summer	H8001	1.006	H8002	29.1	2.330	0.264	0.6013	
60 minute summer	H8002	1.007	H8105	35.6	1.677	0.202	0.9671	
60 minute summer	H8105	1.008	H8103	39.4	1.637	0.292	0.8340	
60 minute summer	H8103	1.009	H8104	39.4	1.462	0.136	0.4390	
60 minute summer	H8104	1.010	H8207	50.2	1.531	0.238	2.6391	
60 minute summer	H8207	1.011	H8206	57.5	1.639	0.240	1.0395	
60 minute summer	H8206	1.012	H8205	62.7	1.687	0.259	0.7913	
60 minute summer	S21	2.000	S22	14.3	1.001	0.237	0.5916	
60 minute summer	S22	2.001	S23	17.8	1.055	0.392	0.3854	
60 minute summer	S23	2.002	S24	21.5	1.270	0.180	0.5911	
60 minute summer	S24	2.003	S25	23.3	1.428	0.172	0.5501	
960 minute winter	S25	2.004	S26	4.1	0.476	0.035	0.7919	
960 minute winter	S26	2.005	S27	4.7	0.629	0.037	0.3123	
960 minute winter	S27	2.006	S33	4.6	0.559	0.009	3.4548	
60 minute summer	S28	3.000	S29	11.9	0.664	0.104	0.5121	
60 minute summer	S29	3.001	S30	35.2	1.467	0.281	0.3778	
60 minute summer	S30	3.002	S31	35.2	1.017	0.266	1.5773	
60 minute summer	S31	3.003	S32	35.1	1.208	0.236	0.5244	
960 minute winter	S32	3.004	S33	8.4	0.595	0.014	2.8182	
960 minute winter	S33	2.007	S34	1.9	0.218	0.048	0.2706	
960 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
60 minute summer	H8205	1.013	H8204	67.5	1.904	0.256	0.6173	

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Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H8204	35	129.279	0.129	67.5	0.1845	0.0000	OK
60 minute summer	S7202	40	130.155	0.155	105.3	0.2219	0.0000	OK
60 minute summer	S8208	41	129.555	0.125	105.3	0.1782	0.0000	OK
60 minute summer	S8201	35	128.982	0.172	171.5	0.2467	0.0000	OK
60 minute summer	S8203	35	128.181	0.161	171.2	0.2308	0.0000	OK
60 minute summer	S7324	36	127.945	0.145	171.3	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H8204	1.014	S8201	67.8	1.644	0.228	0.6394	
60 minute summer	S7202	4.000	S8208	105.3	2.518	0.219	1.0915	
60 minute summer	S8208	4.001	S8201	105.2	2.561	0.150	0.5890	
60 minute summer	S8201	1.015	S8203	171.2	3.207	0.261	1.0355	
60 minute summer	S8203	1.016	S7324	171.3	1.799	0.233	1.6247	379.7

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Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.047	0.060	8.6	0.0854	0.0000	OK
60 minute summer	H7801	33	144.819	0.078	24.5	0.1111	0.0000	OK
60 minute summer	H7907	33	144.068	0.100	51.5	0.1427	0.0000	OK
60 minute summer	H7908	33	140.902	0.116	63.5	0.1665	0.0000	OK
60 minute summer	H7905	33	139.994	0.125	75.2	0.1789	0.0000	OK
60 minute summer	H7906	33	138.520	0.136	89.8	0.1948	0.0000	OK
60 minute summer	H8001	33	135.539	0.196	113.1	0.2798	0.0000	OK
60 minute summer	H8002	34	133.346	0.219	137.8	0.3139	0.0000	OK
60 minute summer	H8105	34	132.524	0.523	150.8	0.7486	0.0000	SURCHARGED
60 minute summer	H8103	36	131.664	0.248	150.5	0.3549	0.0000	OK
60 minute summer	H8104	36	131.577	0.502	191.6	0.7177	0.0000	SURCHARGED
60 minute summer	H8207	36	130.902	0.718	213.5	1.0277	0.0000	SURCHARGED
60 minute summer	H8206	36	130.535	0.775	219.4	1.1086	0.0000	SURCHARGED
60 minute summer	S21	34	132.420	0.420	54.9	0.6009	0.0000	SURCHARGED
60 minute summer	S22	34	131.928	0.478	67.0	0.6837	0.0000	SURCHARGED
60 minute summer	S23	34	131.391	0.191	80.1	0.2734	0.0000	OK
1440 minute summer	S24	1440	131.084	0.284	9.0	0.4063	0.0000	OK
1440 minute winter	S25	1440	131.079	0.854	7.8	1.2226	0.0000	SURCHARGED
1440 minute winter	S26	1440	131.085	0.915	8.9	1.3095	0.0000	SURCHARGED
1440 minute summer	S27	1440	131.078	0.928	13.1	1.3284	0.0000	SURCHARGED
60 minute summer	S28	33	131.161	0.136	45.8	0.1952	0.0000	OK
60 minute summer	S29	33	131.130	0.405	135.0	0.5797	0.0000	SURCHARGED
1440 minute winter	S30	1410	131.079	0.629	9.1	0.8996	0.0000	SURCHARGED
1440 minute winter	S31	1410	131.079	0.829	8.8	1.1859	0.0000	SURCHARGED
1440 minute winter	S32	1410	131.079	0.929	9.7	1.6411	0.0000	SURCHARGED
1440 minute winter	S33	1410	131.079	1.079	23.6	569.6279	0.0000	SURCHARGED
1440 minute winter	S34	1410	131.079	1.119	1.8	6.4051	0.0000	SURCHARGED
60 minute summer	H8205	36	130.198	0.748	230.6	1.0702	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H6808	1.000	H7801	8.6	0.838	0.156	0.2251	
60 minute summer	H7801	1.001	H7907	24.5	1.685	0.258	0.3414	
60 minute summer	H7907	1.002	H7908	51.4	2.731	0.409	1.0373	
60 minute summer	H7908	1.003	H7905	63.5	2.929	0.470	0.2977	
60 minute summer	H7905	1.004	H7906	75.2	3.147	0.556	0.5309	
60 minute summer	H7906	1.005	H8001	89.7	2.859	0.687	1.5075	
60 minute summer	H8001	1.006	H8002	112.4	3.130	1.019	1.8361	
60 minute summer	H8002	1.007	H8105	136.6	2.176	0.777	2.8445	
60 minute summer	H8105	1.008	H8103	150.5	2.138	1.115	2.4096	
60 minute summer	H8103	1.009	H8104	151.7	1.869	0.522	1.5234	
60 minute summer	H8104	1.010	H8207	182.5	1.954	0.867	8.8835	
60 minute summer	H8207	1.011	H8206	197.8	1.974	0.824	3.2609	
60 minute summer	H8206	1.012	H8205	215.8	2.041	0.892	2.3452	
60 minute summer	S21	2.000	S22	53.1	1.336	0.881	1.6311	
60 minute summer	S22	2.001	S23	66.8	1.681	1.469	0.8886	
60 minute summer	S23	2.002	S24	80.4	1.741	0.676	1.6141	
1440 minute summer	S24	2.003	S25	9.0	0.921	0.066	2.3471	
1440 minute winter	S25	2.004	S26	7.7	0.448	0.065	1.7319	
1440 minute winter	S26	2.005	S27	8.8	0.582	0.069	0.5352	
1440 minute summer	S27	2.006	S33	12.8	0.590	0.024	6.9817	
60 minute summer	S28	3.000	S29	45.4	0.834	0.396	1.4280	
60 minute summer	S29	3.001	S30	134.7	1.914	1.074	1.0852	
1440 minute winter	S30	3.002	S31	8.8	0.639	0.067	5.0310	
1440 minute winter	S31	3.003	S32	9.7	0.618	0.065	1.9859	
1440 minute winter	S32	3.004	S33	14.4	0.664	0.024	5.6919	
1440 minute winter	S33	2.007	S34	1.8	0.176	0.044	0.2706	
1440 minute winter	S34	2.008	H8205	1.7	0.503	0.043	0.0639	
60 minute summer	H8205	1.013	H8204	226.4	2.201	0.859	1.9159	

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Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H8204	36	129.866	0.716	226.4	1.0251	0.0000	SURCHARGED
60 minute summer	S7202	39	130.505	0.505	404.1	0.7228	0.0000	SURCHARGED
60 minute summer	S8208	37	129.933	0.503	411.2	0.7199	0.0000	SURCHARGED
60 minute summer	S8201	37	129.579	0.769	629.9	1.1010	0.0000	SURCHARGED
60 minute summer	S8203	37	128.404	0.384	630.2	0.5498	0.0000	OK
60 minute summer	S7324	37	128.113	0.313	630.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H8204	1.014	S8201	225.2	2.042	0.756	1.7007	
60 minute summer	S7202	4.000	S8208	411.2	3.143	0.857	4.1206	
60 minute summer	S8208	4.001	S8201	413.2	3.240	0.588	2.0946	
60 minute summer	S8201	1.015	S8203	630.2	4.002	0.962	2.9313	
60 minute summer	S8203	1.016	S7324	630.5	2.394	0.858	4.4640	1437.1

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H6808	33	145.057	0.070	11.5	0.0996	0.0000	OK
60 minute summer	H7801	33	144.832	0.091	32.9	0.1302	0.0000	OK
60 minute summer	H7907	33	144.086	0.118	69.1	0.1694	0.0000	OK
60 minute summer	H7908	33	140.929	0.143	85.4	0.2042	0.0000	OK
60 minute summer	H7905	34	140.058	0.189	101.7	0.2705	0.0000	OK
60 minute summer	H7906	35	139.303	0.919	118.4	1.3154	0.0000	SURCHARGED
60 minute summer	H8001	33	136.768	1.425	144.8	2.0392	6.3296	FLOOD
60 minute summer	H8002	34	134.369	1.242	154.7	1.7767	0.0000	FLOOD RISK
60 minute summer	H8105	34	133.501	1.500	159.7	2.1465	1.7035	FLOOD
60 minute summer	H8103	34	132.779	1.363	151.0	1.9508	0.0000	FLOOD RISK
60 minute summer	H8104	34	132.650	1.575	205.8	2.2538	0.2227	FLOOD
60 minute summer	H8207	34	131.759	1.575	237.1	2.2538	6.9465	FLOOD
60 minute summer	H8206	36	131.387	1.627	246.5	2.3285	0.0000	SURCHARGED
60 minute summer	S21	34	133.192	1.192	73.7	1.7054	0.0000	FLOOD RISK
60 minute summer	S22	34	132.300	0.850	90.2	1.2165	0.0000	SURCHARGED
60 minute summer	S23	34	131.446	0.246	107.9	0.3515	0.0000	OK
1440 minute summer	S24	1440	131.417	0.617	12.1	0.8830	0.0000	SURCHARGED
1440 minute summer	S25	1470	131.415	1.190	15.7	1.7024	0.0000	SURCHARGED
1440 minute summer	S26	1440	131.421	1.251	17.8	1.7900	0.0000	SURCHARGED
1440 minute summer	S27	1500	131.420	1.270	17.7	1.8171	0.0000	SURCHARGED
60 minute summer	S28	34	131.764	0.739	61.5	1.0569	0.0000	SURCHARGED
60 minute summer	S29	33	131.662	0.937	179.1	1.3403	0.0000	SURCHARGED
1440 minute summer	S30	1470	131.416	0.966	18.0	1.3824	0.0000	SURCHARGED
1440 minute summer	S31	1470	131.416	1.166	17.3	1.6687	0.0000	SURCHARGED
1440 minute summer	S32	1470	131.416	1.266	17.1	2.2372	0.0000	SURCHARGED
1440 minute summer	S33	1470	131.416	1.416	39.9	811.3301	0.0000	SURCHARGED
1440 minute summer	S34	1470	131.416	1.456	2.3	8.3365	0.0000	SURCHARGED
60 minute summer	H8205	37	131.034	1.584	259.0	2.2673	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H6808	1.000	H7801	11.5	0.904	0.208	0.2791	
60 minute summer	H7801	1.001	H7907	32.8	1.817	0.347	0.4247	
60 minute summer	H7907	1.002	H7908	69.1	2.942	0.550	1.3136	
60 minute summer	H7908	1.003	H7905	86.0	3.091	0.637	0.4154	
60 minute summer	H7905	1.004	H7906	98.7	3.260	0.730	0.8381	
60 minute summer	H7906	1.005	H8001	113.4	2.894	0.869	1.9415	
60 minute summer	H8001	1.006	H8002	120.6	3.048	1.094	1.9114	
60 minute summer	H8002	1.007	H8105	140.8	2.182	0.801	3.1889	
60 minute summer	H8105	1.008	H8103	151.0	2.145	1.119	2.4415	
60 minute summer	H8103	1.009	H8104	150.7	1.805	0.519	1.7911	
60 minute summer	H8104	1.010	H8207	197.6	1.950	0.939	8.8835	
60 minute summer	H8207	1.011	H8206	217.1	1.969	0.905	3.2609	
60 minute summer	H8206	1.012	H8205	238.5	2.163	0.986	2.3452	
60 minute summer	S21	2.000	S22	71.5	1.797	1.186	1.6311	
60 minute summer	S22	2.001	S23	89.9	2.261	1.977	0.8970	
60 minute summer	S23	2.002	S24	108.0	1.807	0.908	2.2494	
1440 minute summer	S24	2.003	S25	12.1	0.887	0.089	2.3710	
1440 minute summer	S25	2.004	S26	15.5	0.423	0.131	1.7319	
1440 minute summer	S26	2.005	S27	17.7	0.556	0.138	0.5352	
1440 minute summer	S27	2.006	S33	17.6	0.625	0.033	6.9817	
60 minute summer	S28	3.000	S29	60.1	0.853	0.523	1.9798	
60 minute summer	S29	3.001	S30	177.0	2.514	1.412	1.1083	
1440 minute summer	S30	3.002	S31	17.3	0.613	0.131	5.0310	
1440 minute summer	S31	3.003	S32	17.1	0.596	0.115	1.9859	
1440 minute summer	S32	3.004	S33	17.0	0.641	0.029	5.6919	
1440 minute summer	S33	2.007	S34	2.3	0.259	0.057	0.2706	
1440 minute summer	S34	2.008	H8205	2.0	0.522	0.049	0.0696	
60 minute summer	H8205	1.013	H8204	246.1	2.232	0.934	1.9159	

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	H8204	38	130.705	1.554	246.1	2.2245	0.0000	SURCHARGED
60 minute summer	S7202	39	132.111	2.111	542.2	3.0215	0.0000	SURCHARGED
60 minute summer	S8208	39	131.076	1.645	543.0	2.3547	0.0000	SURCHARGED
60 minute summer	S8201	39	130.403	1.593	781.9	2.2799	0.0000	SURCHARGED
60 minute summer	S8203	39	128.631	0.611	782.0	0.8742	0.0000	SURCHARGED
60 minute summer	S7324	39	128.217	0.417	782.1	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H8204	1.014	S8201	242.1	2.196	0.813	1.7007	
60 minute summer	S7202	4.000	S8208	543.0	3.428	1.132	4.1206	
60 minute summer	S8208	4.001	S8201	544.6	3.438	0.775	2.0946	
60 minute summer	S8201	1.015	S8203	782.0	4.936	1.194	3.0698	
60 minute summer	S8203	1.016	S7324	782.1	2.468	1.064	5.3153	1847.1

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Results for 2 year 60 minute summer. 2940 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
60 minute summer	H6808	33	145.018	0.031	2.3	0.0447	0.0000	OK
60 minute summer	H7801	33	144.781	0.039	6.4	0.0565	0.0000	OK
60 minute summer	H7907	33	144.018	0.050	13.5	0.0709	0.0000	OK
60 minute summer	H7908	33	140.840	0.054	16.5	0.0777	0.0000	OK
60 minute summer	H7905	33	139.927	0.058	19.5	0.0829	0.0000	OK
60 minute summer	H7906	33	138.448	0.064	23.3	0.0916	0.0000	OK
60 minute summer	H8001	34	135.423	0.080	29.3	0.1148	0.0000	OK
60 minute summer	H8002	34	133.218	0.091	35.6	0.1299	0.0000	OK
60 minute summer	H8105	34	132.116	0.115	39.3	0.1641	0.0000	OK
60 minute summer	H8103	34	131.512	0.095	39.4	0.1366	0.0000	OK
60 minute summer	H8104	34	131.200	0.125	50.2	0.1785	0.0000	OK
60 minute summer	H8207	34	130.313	0.129	57.9	0.1845	0.0000	OK
60 minute summer	H8206	34	129.898	0.138	62.9	0.1977	0.0000	OK
60 minute summer	S21	33	132.074	0.074	14.3	0.1061	0.0000	OK
60 minute summer	S22	33	131.552	0.102	18.0	0.1459	0.0000	OK
60 minute summer	S23	33	131.288	0.088	21.5	0.1264	0.0000	OK
60 minute summer	S24	34	130.886	0.086	23.4	0.1232	0.0000	OK
60 minute summer	S25	34	130.364	0.139	30.0	0.1987	0.0000	OK
60 minute summer	S26	34	130.306	0.136	34.4	0.1940	0.0000	OK
60 minute summer	S27	34	130.257	0.107	34.5	0.1532	0.0000	OK
60 minute summer	S28	33	131.090	0.065	11.9	0.0925	0.0000	OK
60 minute summer	S29	33	130.842	0.117	35.2	0.1668	0.0000	OK
60 minute summer	S30	33	130.585	0.135	35.2	0.1931	0.0000	OK
60 minute summer	S31	34	130.379	0.129	35.2	0.1848	0.0000	OK
60 minute summer	S32	34	130.253	0.103	35.1	0.1828	0.0000	OK
60 minute summer	S33	69	130.174	0.174	74.4	72.9755	0.0000	OK
60 minute summer	S34	69	130.174	0.214	3.1	1.2274	0.0000	OK
60 minute summer	H8205	34	129.590	0.140	67.8	0.2009	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	H6808	1.000	H7801	2.3	0.578	0.042	0.0875	
60 minute summer	H7801	1.001	H7907	6.4	1.152	0.067	0.1305	
60 minute summer	H7907	1.002	H7908	13.4	1.945	0.107	0.3803	
60 minute summer	H7908	1.003	H7905	16.5	2.135	0.122	0.1059	
60 minute summer	H7905	1.004	H7906	19.4	2.240	0.144	0.1928	
60 minute summer	H7906	1.005	H8001	23.2	2.122	0.178	0.5354	
60 minute summer	H8001	1.006	H8002	29.1	2.330	0.264	0.6013	
60 minute summer	H8002	1.007	H8105	35.6	1.677	0.202	0.9671	
60 minute summer	H8105	1.008	H8103	39.4	1.637	0.292	0.8340	
60 minute summer	H8103	1.009	H8104	39.4	1.462	0.136	0.4390	
60 minute summer	H8104	1.010	H8207	50.2	1.531	0.238	2.6391	
60 minute summer	H8207	1.011	H8206	57.5	1.639	0.240	1.0395	
60 minute summer	H8206	1.012	H8205	62.7	1.687	0.259	0.7913	
60 minute summer	S21	2.000	S22	14.3	1.001	0.237	0.5916	
60 minute summer	S22	2.001	S23	17.8	1.055	0.392	0.3854	
60 minute summer	S23	2.002	S24	21.5	1.270	0.180	0.5911	
60 minute summer	S24	2.003	S25	23.3	1.428	0.172	0.5501	
60 minute summer	S25	2.004	S26	30.1	0.826	0.256	0.5727	
60 minute summer	S26	2.005	S27	34.5	1.121	0.270	0.1498	
60 minute summer	S27	2.006	S33	34.7	1.267	0.065	0.9035	
60 minute summer	S28	3.000	S29	11.9	0.664	0.104	0.5121	
60 minute summer	S29	3.001	S30	35.2	1.467	0.281	0.3778	
60 minute summer	S30	3.002	S31	35.2	1.017	0.266	1.5773	
60 minute summer	S31	3.003	S32	35.1	1.208	0.236	0.5244	
60 minute summer	S32	3.004	S33	35.3	1.333	0.060	0.7323	
60 minute summer	S33	2.007	S34	3.1	0.391	0.078	0.2452	
60 minute summer	S34	2.008	H8205	1.5	0.485	0.038	0.0582	
60 minute summer	H8205	1.013	H8204	67.5	1.904	0.256	0.6173	

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Results for 2 year 60 minute summer. 2940 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
60 minute summer	H8204	35	129.279	0.129	67.5	0.1845	0.0000	OK
60 minute summer	S7202	40	130.155	0.155	105.3	0.2219	0.0000	OK
60 minute summer	S8208	41	129.555	0.125	105.3	0.1782	0.0000	OK
60 minute summer	S8201	35	128.982	0.172	171.5	0.2467	0.0000	OK
60 minute summer	S8203	35	128.181	0.161	171.2	0.2308	0.0000	OK
60 minute summer	S7324	36	127.945	0.145	171.3	0.0000	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	H8204	1.014	S8201	67.8	1.644	0.228	0.6394	
60 minute summer	S7202	4.000	S8208	105.3	2.518	0.219	1.0915	
60 minute summer	S8208	4.001	S8201	105.2	2.561	0.150	0.5890	
60 minute summer	S8201	1.015	S8203	171.2	3.207	0.261	1.0355	
60 minute summer	S8203	1.016	S7324	171.3	1.799	0.233	1.6247	379.7

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Results for 2 year 60 minute winter. 2940 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
60 minute winter	H6808	33	145.014	0.027	1.7	0.0387	0.0000	OK
60 minute winter	H7801	33	144.775	0.034	4.8	0.0490	0.0000	OK
60 minute winter	H7907	33	144.011	0.043	10.0	0.0610	0.0000	OK
60 minute winter	H7908	33	140.832	0.046	12.2	0.0664	0.0000	OK
60 minute winter	H7905	33	139.919	0.050	14.4	0.0709	0.0000	OK
60 minute winter	H7906	34	138.439	0.055	17.1	0.0785	0.0000	OK
60 minute winter	H8001	34	135.411	0.068	21.6	0.0979	0.0000	OK
60 minute winter	H8002	34	133.205	0.078	26.3	0.1114	0.0000	OK
60 minute winter	H8105	34	132.098	0.097	29.0	0.1387	0.0000	OK
60 minute winter	H8103	34	131.497	0.081	29.0	0.1154	0.0000	OK
60 minute winter	H8104	34	131.181	0.106	37.1	0.1520	0.0000	OK
60 minute winter	H8207	35	130.293	0.109	42.7	0.1563	0.0000	OK
60 minute winter	H8206	35	129.877	0.117	46.5	0.1669	0.0000	OK
60 minute winter	S21	33	132.063	0.063	10.3	0.0896	0.0000	OK
60 minute winter	S22	33	131.535	0.084	12.9	0.1209	0.0000	OK
60 minute winter	S23	34	131.274	0.074	15.5	0.1063	0.0000	OK
60 minute winter	S24	34	130.873	0.073	16.9	0.1041	0.0000	OK
60 minute winter	S25	34	130.341	0.116	21.9	0.1663	0.0000	OK
60 minute winter	S26	34	130.285	0.115	25.1	0.1640	0.0000	OK
60 minute winter	S27	33	130.241	0.091	25.1	0.1297	0.0000	OK
60 minute winter	S28	33	131.080	0.055	8.6	0.0789	0.0000	OK
60 minute winter	S29	33	130.822	0.097	25.5	0.1392	0.0000	OK
60 minute winter	S30	33	130.563	0.113	25.5	0.1623	0.0000	OK
60 minute winter	S31	34	130.359	0.109	25.5	0.1561	0.0000	OK
60 minute winter	S32	33	130.237	0.087	25.5	0.1541	0.0000	OK
60 minute winter	S33	68	130.175	0.175	54.0	73.0497	0.0000	OK
60 minute winter	S34	68	130.175	0.215	3.0	1.2283	0.0000	OK
60 minute winter	H8205	35	129.569	0.119	50.6	0.1708	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	H6808	1.000	H7801	1.7	0.526	0.031	0.0710	
60 minute winter	H7801	1.001	H7907	4.8	1.060	0.050	0.1057	
60 minute winter	H7907	1.002	H7908	9.9	1.788	0.079	0.3058	
60 minute winter	H7908	1.003	H7905	12.2	1.973	0.090	0.0848	
60 minute winter	H7905	1.004	H7906	14.3	2.061	0.106	0.1548	
60 minute winter	H7906	1.005	H8001	17.1	1.947	0.131	0.4309	
60 minute winter	H8001	1.006	H8002	21.6	2.146	0.196	0.4834	
60 minute winter	H8002	1.007	H8105	26.3	1.544	0.150	0.7735	
60 minute winter	H8105	1.008	H8103	29.0	1.509	0.215	0.6658	
60 minute winter	H8103	1.009	H8104	29.0	1.354	0.100	0.3489	
60 minute winter	H8104	1.010	H8207	36.9	1.416	0.176	2.1029	
60 minute winter	H8207	1.011	H8206	42.6	1.526	0.178	0.8251	
60 minute winter	H8206	1.012	H8205	46.5	1.569	0.192	0.6307	
60 minute winter	S21	2.000	S22	10.3	0.916	0.171	0.4635	
60 minute winter	S22	2.001	S23	12.9	0.971	0.283	0.3018	
60 minute winter	S23	2.002	S24	15.5	1.159	0.130	0.4668	
60 minute winter	S24	2.003	S25	16.9	1.305	0.124	0.4350	
60 minute winter	S25	2.004	S26	21.9	0.761	0.186	0.4515	
60 minute winter	S26	2.005	S27	25.1	1.029	0.196	0.1187	
60 minute winter	S27	2.006	S33	25.1	1.152	0.047	0.9089	
60 minute winter	S28	3.000	S29	8.6	0.612	0.075	0.4024	
60 minute winter	S29	3.001	S30	25.5	1.350	0.203	0.2972	
60 minute winter	S30	3.002	S31	25.5	0.933	0.193	1.2455	
60 minute winter	S31	3.003	S32	25.5	1.111	0.171	0.4139	
60 minute winter	S32	3.004	S33	25.5	1.212	0.043	0.7367	
60 minute winter	S33	2.007	S34	3.0	0.405	0.076	0.2454	
60 minute winter	S34	2.008	H8205	1.5	0.485	0.038	0.0582	
60 minute winter	H8205	1.013	H8204	50.6	1.796	0.192	0.4899	

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Results for 2 year 60 minute winter. 2940 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
60 minute winter	H8204	35	129.258	0.108	50.6	0.1547	0.0000	OK
60 minute winter	S7202	40	130.150	0.150	98.8	0.2144	0.0000	OK
60 minute winter	S8208	41	129.550	0.120	98.8	0.1712	0.0000	OK
60 minute winter	S8201	37	128.969	0.159	148.9	0.2273	0.0000	OK
60 minute winter	S8203	37	128.169	0.149	148.9	0.2132	0.0000	OK
60 minute winter	S7324	37	127.935	0.135	148.8	0.0000	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	H8204	1.014	S8201	50.6	1.467	0.170	0.5410	
60 minute winter	S7202	4.000	S8208	98.8	2.481	0.206	1.0378	
60 minute winter	S8208	4.001	S8201	98.7	2.454	0.140	0.5477	
60 minute winter	S8201	1.015	S8203	148.9	3.110	0.227	0.9276	
60 minute winter	S8203	1.016	S7324	148.8	1.736	0.202	1.4628	379.1

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Results for 2 year 120 minute summer. 3000 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 summer	H6808	64	145.015	0.028	1.8	0.0396	0.0000	OK
120 minute summer	H7801	64	144.777	0.036	5.2	0.0509	0.0000	OK
120 minute summer	H7907	64	144.012	0.044	10.5	0.0628	0.0000	OK
120 minute summer	H7908	64	140.834	0.048	13.0	0.0686	0.0000	OK
120 minute summer	H7905	64	139.920	0.051	15.4	0.0735	0.0000	OK
120 minute summer	H7906	64	138.441	0.057	18.3	0.0811	0.0000	OK
120 minute summer	H8001	64	135.414	0.071	23.1	0.1012	0.0000	OK
120 minute summer	H8002	64	133.207	0.080	28.1	0.1151	0.0000	OK
120 minute summer	H8105	64	132.101	0.100	31.0	0.1434	0.0000	OK
120 minute summer	H8103	64	131.499	0.083	30.8	0.1193	0.0000	OK
120 minute summer	H8104	64	131.185	0.109	39.4	0.1567	0.0000	OK
120 minute summer	H8207	64	130.297	0.113	45.2	0.1610	0.0000	OK
120 minute summer	H8206	64	129.880	0.120	49.1	0.1718	0.0000	OK
120 minute summer	S21	64	132.064	0.064	10.8	0.0918	0.0000	OK
120 minute summer	S22	64	131.537	0.087	13.6	0.1247	0.0000	OK
120 minute summer	S23	64	131.277	0.077	16.4	0.1095	0.0000	OK
120 minute summer	S24	64	130.875	0.075	17.9	0.1071	0.0000	OK
120 minute summer	S25	64	130.345	0.120	23.2	0.1717	0.0000	OK
120 minute summer	S26	64	130.288	0.118	26.6	0.1684	0.0000	OK
120 minute summer	S27	64	130.242	0.092	26.5	0.1315	0.0000	OK
120 minute summer	S28	64	131.081	0.056	9.0	0.0807	0.0000	OK
120 minute summer	S29	64	130.825	0.100	26.7	0.1428	0.0000	OK
120 minute summer	S30	64	130.566	0.116	26.7	0.1663	0.0000	OK
120 minute summer	S31	64	130.362	0.112	26.7	0.1601	0.0000	OK
120 minute summer	S32	134	130.243	0.093	26.7	0.1637	0.0000	OK
120 minute summer	S33	130	130.239	0.239	57.0	101.9243	0.0000	SURCHARGED
120 minute summer	S34	130	130.239	0.279	2.3	1.5993	0.0000	SURCHARGED
120 minute summer	H8205	64	129.573	0.123	53.3	0.1757	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	H6808	1.000	H7801	1.8	0.527	0.032	0.0744	
120 minute summer	H7801	1.001	H7907	5.1	1.108	0.054	0.1108	
120 minute summer	H7907	1.002	H7908	10.5	1.814	0.084	0.3196	
120 minute summer	H7908	1.003	H7905	13.0	2.005	0.096	0.0891	
120 minute summer	H7905	1.004	H7906	15.4	2.105	0.114	0.1626	
120 minute summer	H7906	1.005	H8001	18.3	1.980	0.140	0.4514	
120 minute summer	H8001	1.006	H8002	23.0	2.183	0.208	0.5062	
120 minute summer	H8002	1.007	H8105	28.1	1.573	0.160	0.8099	
120 minute summer	H8105	1.008	H8103	30.8	1.533	0.228	0.6964	
120 minute summer	H8103	1.009	H8104	30.8	1.376	0.106	0.3646	
120 minute summer	H8104	1.010	H8207	39.1	1.437	0.186	2.1941	
120 minute summer	H8207	1.011	H8206	44.8	1.547	0.187	0.8595	
120 minute summer	H8206	1.012	H8205	48.9	1.588	0.202	0.6560	
120 minute summer	S21	2.000	S22	10.8	0.929	0.179	0.4816	
120 minute summer	S22	2.001	S23	13.6	0.985	0.299	0.3144	
120 minute summer	S23	2.002	S24	16.4	1.177	0.138	0.4866	
120 minute summer	S24	2.003	S25	17.8	1.324	0.131	0.4527	
120 minute summer	S25	2.004	S26	23.2	0.774	0.197	0.4702	
120 minute summer	S26	2.005	S27	26.5	1.070	0.207	0.1223	
120 minute summer	S27	2.006	S33	26.6	0.878	0.050	1.6236	
120 minute summer	S28	3.000	S29	9.0	0.619	0.078	0.4163	
120 minute summer	S29	3.001	S30	26.7	1.367	0.213	0.3076	
120 minute summer	S30	3.002	S31	26.7	0.944	0.202	1.2900	
120 minute summer	S31	3.003	S32	26.7	1.147	0.179	0.4278	
120 minute summer	S32	3.004	S33	26.8	0.944	0.045	1.3364	
120 minute summer	S33	2.007	S34	2.3	0.344	0.057	0.2706	
120 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0592	
120 minute summer	H8205	1.013	H8204	53.3	1.818	0.202	0.5099	

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Results for 2 year 120 minute summer. 3000 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 summer	H8204	66	129.261	0.111	53.3	0.1595	0.0000	OK
120 minute summer	S7202	70	130.154	0.154	103.7	0.2202	0.0000	OK
120 minute summer	S8208	70	129.553	0.123	103.6	0.1756	0.0000	OK
120 minute summer	S8201	66	128.974	0.164	157.8	0.2350	0.0000	OK
120 minute summer	S8203	68	128.174	0.154	157.7	0.2203	0.0000	OK
120 minute summer	S7324	68	127.939	0.139	157.8	0.0000	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	H8204	1.014	S8201	53.4	1.472	0.179	0.5688	
120 minute summer	S7202	4.000	S8208	103.6	2.510	0.216	1.0769	
120 minute summer	S8208	4.001	S8201	103.5	2.464	0.147	0.5732	
120 minute summer	S8201	1.015	S8203	157.7	3.150	0.241	0.9704	
120 minute summer	S8203	1.016	S7324	157.8	1.762	0.215	1.5279	542.9

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Results for 2 year 120 minute winter. 3000 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	H6808	66	145.011	0.024	1.3	0.0341	0.0000	OK
120 minute winter	H7801	64	144.772	0.031	3.9	0.0444	0.0000	OK
120 minute winter	H7907	64	144.006	0.038	7.7	0.0538	0.0000	OK
120 minute winter	H7908	66	140.827	0.041	9.3	0.0581	0.0000	OK
120 minute winter	H7905	64	139.912	0.043	11.0	0.0620	0.0000	OK
120 minute winter	H7906	64	138.432	0.048	13.2	0.0689	0.0000	OK
120 minute winter	H8001	66	135.403	0.060	16.5	0.0852	0.0000	OK
120 minute winter	H8002	66	133.195	0.068	20.0	0.0972	0.0000	OK
120 minute winter	H8105	66	132.085	0.084	22.0	0.1199	0.0000	OK
120 minute winter	H8103	66	131.486	0.070	22.1	0.0998	0.0000	OK
120 minute winter	H8104	66	131.167	0.092	27.9	0.1315	0.0000	OK
120 minute winter	H8207	66	130.278	0.094	32.0	0.1344	0.0000	OK
120 minute winter	H8206	66	129.860	0.100	34.9	0.1426	0.0000	OK
120 minute winter	S21	64	132.053	0.053	7.5	0.0763	0.0000	OK
120 minute winter	S22	64	131.521	0.071	9.4	0.1019	0.0000	OK
120 minute winter	S23	64	131.263	0.063	11.3	0.0905	0.0000	OK
120 minute winter	S24	64	130.862	0.062	12.3	0.0885	0.0000	OK
120 minute winter	S25	64	130.323	0.098	16.0	0.1401	0.0000	OK
120 minute winter	S26	64	130.267	0.097	18.4	0.1387	0.0000	OK
120 minute winter	S27	132	130.240	0.090	18.3	0.1286	0.0000	OK
120 minute winter	S28	64	131.072	0.047	6.2	0.0673	0.0000	OK
120 minute winter	S29	64	130.806	0.081	18.4	0.1165	0.0000	OK
120 minute winter	S30	64	130.546	0.096	18.4	0.1369	0.0000	OK
120 minute winter	S31	64	130.342	0.092	18.4	0.1322	0.0000	OK
120 minute winter	S32	130	130.243	0.093	18.4	0.1643	0.0000	OK
120 minute winter	S33	130	130.240	0.240	39.3	102.0969	0.0000	SURCHARGED
120 minute winter	S34	128	130.240	0.280	2.0	1.6013	0.0000	SURCHARGED
120 minute winter	H8205	66	129.553	0.103	38.3	0.1470	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	H6808	1.000	H7801	1.3	0.481	0.024	0.0605	
120 minute winter	H7801	1.001	H7907	3.9	1.105	0.041	0.0896	
120 minute winter	H7907	1.002	H7908	7.6	1.665	0.061	0.2533	
120 minute winter	H7908	1.003	H7905	9.3	1.837	0.069	0.0699	
120 minute winter	H7905	1.004	H7906	11.0	1.910	0.081	0.1282	
120 minute winter	H7906	1.005	H8001	13.2	1.816	0.101	0.3553	
120 minute winter	H8001	1.006	H8002	16.5	1.992	0.150	0.3987	
120 minute winter	H8002	1.007	H8105	20.0	1.436	0.114	0.6340	
120 minute winter	H8105	1.008	H8103	22.1	1.402	0.163	0.5456	
120 minute winter	H8103	1.009	H8104	22.1	1.267	0.076	0.2842	
120 minute winter	H8104	1.010	H8207	27.9	1.314	0.132	1.7088	
120 minute winter	H8207	1.011	H8206	32.0	1.422	0.133	0.6645	
120 minute winter	H8206	1.012	H8205	34.9	1.457	0.144	0.5089	
120 minute winter	S21	2.000	S22	7.5	0.840	0.124	0.3681	
120 minute winter	S22	2.001	S23	9.4	0.893	0.207	0.2398	
120 minute winter	S23	2.002	S24	11.3	1.064	0.095	0.3711	
120 minute winter	S24	2.003	S25	12.3	1.193	0.090	0.3463	
120 minute winter	S25	2.004	S26	16.0	0.704	0.135	0.3562	
120 minute winter	S26	2.005	S27	18.3	0.968	0.143	0.0923	
120 minute winter	S27	2.006	S33	18.3	0.916	0.034	1.6285	
120 minute winter	S28	3.000	S29	6.2	0.562	0.054	0.3159	
120 minute winter	S29	3.001	S30	18.4	1.240	0.147	0.2337	
120 minute winter	S30	3.002	S31	18.4	0.853	0.139	0.9841	
120 minute winter	S31	3.003	S32	18.4	1.039	0.124	0.3203	
120 minute winter	S32	3.004	S33	18.4	0.981	0.031	1.3410	
120 minute winter	S33	2.007	S34	2.0	0.356	0.051	0.2706	
120 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0592	
120 minute winter	H8205	1.013	H8204	38.3	1.695	0.146	0.3932	

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Results for 2 year 120 minute winter. 3000 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	H8204	66	129.242	0.092	38.3	0.1312	0.0000	OK
120 minute winter	S7202	70	130.137	0.137	83.4	0.1956	0.0000	OK
120 minute winter	S8208	70	129.539	0.108	83.4	0.1552	0.0000	OK
120 minute winter	S8201	68	128.954	0.144	124.9	0.2057	0.0000	OK
120 minute winter	S8203	68	128.155	0.135	124.9	0.1932	0.0000	OK
120 minute winter	S7324	68	127.924	0.124	124.8	0.0000	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	H8204	1.014	S8201	38.3	1.312	0.129	0.4585	
120 minute winter	S7202	4.000	S8208	83.4	2.389	0.174	0.9100	
120 minute winter	S8208	4.001	S8201	83.3	2.312	0.119	0.4809	
120 minute winter	S8201	1.015	S8203	124.9	2.991	0.191	0.8092	
120 minute winter	S8203	1.016	S7324	124.8	1.660	0.170	1.2827	545.2

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Results for 2 year 180 minute summer. 3060 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	H6808	96	145.013	0.026	1.6	0.0375	0.0000	OK
180 minute summer	H7801	96	144.775	0.034	4.6	0.0480	0.0000	OK
180 minute summer	H7907	96	144.009	0.041	9.0	0.0581	0.0000	OK
180 minute summer	H7908	96	140.830	0.044	11.0	0.0629	0.0000	OK
180 minute summer	H7905	96	139.916	0.047	12.8	0.0670	0.0000	OK
180 minute summer	H7906	96	138.436	0.052	15.3	0.0743	0.0000	OK
180 minute summer	H8001	96	135.407	0.064	19.2	0.0921	0.0000	OK
180 minute summer	H8002	96	133.200	0.073	23.3	0.1048	0.0000	OK
180 minute summer	H8105	96	132.092	0.091	25.6	0.1297	0.0000	OK
180 minute summer	H8103	96	131.491	0.075	25.6	0.1079	0.0000	OK
180 minute summer	H8104	96	131.174	0.099	32.5	0.1421	0.0000	OK
180 minute summer	H8207	96	130.286	0.102	37.3	0.1457	0.0000	OK
180 minute summer	H8206	96	129.868	0.108	40.7	0.1549	0.0000	OK
180 minute summer	S21	96	132.057	0.057	8.6	0.0818	0.0000	OK
180 minute summer	S22	96	131.527	0.077	10.8	0.1099	0.0000	OK
180 minute summer	S23	96	131.268	0.068	13.0	0.0972	0.0000	OK
180 minute summer	S24	96	130.867	0.067	14.2	0.0953	0.0000	OK
180 minute summer	S25	96	130.331	0.106	18.5	0.1515	0.0000	OK
180 minute summer	S26	192	130.278	0.108	21.2	0.1550	0.0000	OK
180 minute summer	S27	192	130.278	0.128	21.2	0.1836	0.0000	OK
180 minute summer	S28	96	131.076	0.051	7.2	0.0724	0.0000	OK
180 minute summer	S29	96	130.813	0.088	21.2	0.1258	0.0000	OK
180 minute summer	S30	96	130.553	0.103	21.2	0.1473	0.0000	OK
180 minute summer	S31	96	130.349	0.099	21.2	0.1421	0.0000	OK
180 minute summer	S32	192	130.281	0.131	21.2	0.2310	0.0000	OK
180 minute summer	S33	188	130.278	0.278	45.4	119.5944	0.0000	SURCHARGED
180 minute summer	S34	188	130.278	0.318	2.1	1.8205	0.0000	SURCHARGED
180 minute summer	H8205	96	129.561	0.111	44.5	0.1593	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	H6808	1.000	H7801	1.6	0.511	0.029	0.0686	
180 minute summer	H7801	1.001	H7907	4.6	1.137	0.048	0.1003	
180 minute summer	H7907	1.002	H7908	9.0	1.738	0.071	0.2838	
180 minute summer	H7908	1.003	H7905	10.9	1.920	0.081	0.0784	
180 minute summer	H7905	1.004	H7906	12.8	1.998	0.095	0.1430	
180 minute summer	H7906	1.005	H8001	15.3	1.890	0.117	0.3968	
180 minute summer	H8001	1.006	H8002	19.2	2.077	0.174	0.4443	
180 minute summer	H8002	1.007	H8105	23.3	1.496	0.133	0.7065	
180 minute summer	H8105	1.008	H8103	25.6	1.459	0.189	0.6074	
180 minute summer	H8103	1.009	H8104	25.6	1.315	0.088	0.3171	
180 minute summer	H8104	1.010	H8207	32.4	1.367	0.154	1.9102	
180 minute summer	H8207	1.011	H8206	37.3	1.478	0.155	0.7458	
180 minute summer	H8206	1.012	H8205	40.6	1.515	0.168	0.5704	
180 minute summer	S21	2.000	S22	8.6	0.874	0.143	0.4072	
180 minute summer	S22	2.001	S23	10.8	0.927	0.237	0.2656	
180 minute summer	S23	2.002	S24	13.0	1.104	0.109	0.4115	
180 minute summer	S24	2.003	S25	14.2	1.244	0.105	0.3843	
180 minute summer	S25	2.004	S26	18.5	0.733	0.157	0.3961	
180 minute summer	S26	2.005	S27	21.2	1.011	0.166	0.1446	
180 minute summer	S27	2.006	S33	21.2	0.831	0.040	2.1285	
180 minute summer	S28	3.000	S29	7.2	0.587	0.063	0.3513	
180 minute summer	S29	3.001	S30	21.2	1.287	0.169	0.2593	
180 minute summer	S30	3.002	S31	21.2	0.887	0.161	1.0903	
180 minute summer	S31	3.003	S32	21.2	1.083	0.143	0.3539	
180 minute summer	S32	3.004	S33	21.2	0.891	0.036	1.7472	
180 minute summer	S33	2.007	S34	2.1	0.312	0.053	0.2706	
180 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
180 minute summer	H8205	1.013	H8204	44.5	1.750	0.169	0.4419	

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Results for 2 year 180 minute summer. 3060 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	H8204	96	129.250	0.100	44.5	0.1431	0.0000	OK
180 minute summer	S7202	100	130.144	0.144	92.2	0.2065	0.0000	OK
180 minute summer	S8208	100	129.545	0.115	92.1	0.1640	0.0000	OK
180 minute summer	S8201	100	128.962	0.152	138.5	0.2181	0.0000	OK
180 minute summer	S8203	100	128.163	0.143	138.5	0.2048	0.0000	OK
180 minute summer	S7324	100	127.930	0.130	138.6	0.0000	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	H8204	1.014	S8201	44.5	1.367	0.149	0.5050	
180 minute summer	S7202	4.000	S8208	92.1	2.446	0.192	0.9825	
180 minute summer	S8208	4.001	S8201	92.0	2.362	0.131	0.5220	
180 minute summer	S8201	1.015	S8203	138.5	3.062	0.212	0.8771	
180 minute summer	S8203	1.016	S7324	138.6	1.706	0.189	1.3867	648.0

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Results for 2 year 180 minute winter. 3060 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	H6808	100	145.011	0.024	1.3	0.0341	0.0000	OK
180 minute winter	H7801	100	144.772	0.031	3.8	0.0439	0.0000	OK
180 minute winter	H7907	100	144.004	0.036	6.9	0.0511	0.0000	OK
180 minute winter	H7908	100	140.824	0.038	8.3	0.0547	0.0000	OK
180 minute winter	H7905	100	139.910	0.041	9.7	0.0583	0.0000	OK
180 minute winter	H7906	100	138.429	0.045	11.5	0.0644	0.0000	OK
180 minute winter	H8001	100	135.399	0.056	14.4	0.0794	0.0000	OK
180 minute winter	H8002	100	133.190	0.063	17.3	0.0904	0.0000	OK
180 minute winter	H8105	100	132.078	0.077	18.9	0.1105	0.0000	OK
180 minute winter	H8103	100	131.480	0.064	18.9	0.0921	0.0000	OK
180 minute winter	H8104	96	131.159	0.084	23.5	0.1207	0.0000	OK
180 minute winter	H8207	96	130.270	0.086	26.8	0.1224	0.0000	OK
180 minute winter	H8206	96	129.850	0.090	29.1	0.1294	0.0000	OK
180 minute winter	S21	96	132.047	0.047	5.9	0.0677	0.0000	OK
180 minute winter	S22	96	131.513	0.063	7.4	0.0898	0.0000	OK
180 minute winter	S23	96	131.256	0.056	8.9	0.0803	0.0000	OK
180 minute winter	S24	96	130.855	0.055	9.7	0.0786	0.0000	OK
180 minute winter	S25	96	130.311	0.086	12.6	0.1235	0.0000	OK
180 minute winter	S26	188	130.279	0.109	14.5	0.1565	0.0000	OK
180 minute winter	S27	188	130.279	0.129	14.5	0.1852	0.0000	OK
180 minute winter	S28	96	131.067	0.042	4.9	0.0601	0.0000	OK
180 minute winter	S29	96	130.797	0.072	14.6	0.1031	0.0000	OK
180 minute winter	S30	96	130.535	0.085	14.6	0.1216	0.0000	OK
180 minute winter	S31	96	130.332	0.082	14.6	0.1176	0.0000	OK
180 minute winter	S32	184	130.282	0.132	14.6	0.2324	0.0000	OK
180 minute winter	S33	188	130.279	0.279	31.4	120.1493	0.0000	SURCHARGED
180 minute winter	S34	192	130.279	0.319	1.9	1.8273	0.0000	SURCHARGED
180 minute winter	H8205	100	129.544	0.094	32.2	0.1340	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	H6808	1.000	H7801	1.3	0.480	0.024	0.0599	
180 minute winter	H7801	1.001	H7907	3.8	1.147	0.040	0.0853	
180 minute winter	H7907	1.002	H7908	6.9	1.623	0.055	0.2339	
180 minute winter	H7908	1.003	H7905	8.3	1.778	0.061	0.0641	
180 minute winter	H7905	1.004	H7906	9.7	1.845	0.072	0.1168	
180 minute winter	H7906	1.005	H8001	11.5	1.745	0.088	0.3229	
180 minute winter	H8001	1.006	H8002	14.4	1.916	0.131	0.3616	
180 minute winter	H8002	1.007	H8105	17.3	1.385	0.099	0.5680	
180 minute winter	H8105	1.008	H8103	18.9	1.342	0.140	0.4872	
180 minute winter	H8103	1.009	H8104	18.9	1.224	0.065	0.2519	
180 minute winter	H8104	1.010	H8207	23.5	1.256	0.111	1.5044	
180 minute winter	H8207	1.011	H8206	26.7	1.361	0.111	0.5808	
180 minute winter	H8206	1.012	H8205	29.1	1.389	0.120	0.4452	
180 minute winter	S21	2.000	S22	5.9	0.787	0.098	0.3093	
180 minute winter	S22	2.001	S23	7.4	0.836	0.163	0.2016	
180 minute winter	S23	2.002	S24	8.9	0.994	0.075	0.3131	
180 minute winter	S24	2.003	S25	9.7	1.115	0.072	0.2930	
180 minute winter	S25	2.004	S26	12.6	0.660	0.107	0.2998	
180 minute winter	S26	2.005	S27	14.5	0.900	0.113	0.1464	
180 minute winter	S27	2.006	S33	14.5	0.841	0.027	2.1441	
180 minute winter	S28	3.000	S29	4.9	0.527	0.043	0.2663	
180 minute winter	S29	3.001	S30	14.6	1.164	0.116	0.1974	
180 minute winter	S30	3.002	S31	14.6	0.800	0.111	0.8323	
180 minute winter	S31	3.003	S32	14.6	0.970	0.098	0.3432	
180 minute winter	S32	3.004	S33	14.6	0.912	0.025	1.7570	
180 minute winter	S33	2.007	S34	1.9	0.331	0.048	0.2706	
180 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
180 minute winter	H8205	1.013	H8204	32.2	1.629	0.122	0.3433	

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Results for 2 year 180 minute winter. 3060 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	H8204	100	129.233	0.083	32.2	0.1187	0.0000	OK
180 minute winter	S7202	100	130.124	0.124	69.1	0.1770	0.0000	OK
180 minute winter	S8208	100	129.528	0.098	69.1	0.1396	0.0000	OK
180 minute winter	S8201	100	128.940	0.130	104.6	0.1863	0.0000	OK
180 minute winter	S8203	100	128.143	0.123	104.6	0.1753	0.0000	OK
180 minute winter	S7324	100	127.913	0.113	104.6	0.0000	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	H8204	1.014	S8201	32.2	1.268	0.108	0.4011	
180 minute winter	S7202	4.000	S8208	69.1	2.288	0.144	0.7879	
180 minute winter	S8208	4.001	S8201	69.0	2.194	0.098	0.4179	
180 minute winter	S8201	1.015	S8203	104.6	2.873	0.160	0.7058	
180 minute winter	S8203	1.016	S7324	104.6	1.586	0.142	1.1251	652.6

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Results for 2 year 240 minute summer. 3120 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	H6808	128	145.012	0.025	1.4	0.0354	0.0000	OK
240 minute summer	H7801	128	144.773	0.032	4.2	0.0461	0.0000	OK
240 minute summer	H7907	124	144.007	0.039	8.2	0.0554	0.0000	OK
240 minute summer	H7908	124	140.828	0.042	9.8	0.0595	0.0000	OK
240 minute summer	H7905	124	139.913	0.044	11.6	0.0635	0.0000	OK
240 minute summer	H7906	124	138.433	0.049	13.8	0.0705	0.0000	OK
240 minute summer	H8001	124	135.404	0.061	17.4	0.0870	0.0000	OK
240 minute summer	H8002	124	133.196	0.069	20.9	0.0991	0.0000	OK
240 minute summer	H8105	124	132.086	0.085	22.8	0.1215	0.0000	OK
240 minute summer	H8103	128	131.487	0.071	22.6	0.1012	0.0000	OK
240 minute summer	H8104	128	131.168	0.093	28.5	0.1327	0.0000	OK
240 minute summer	H8207	128	130.279	0.095	32.5	0.1357	0.0000	OK
240 minute summer	H8206	128	129.861	0.101	35.4	0.1439	0.0000	OK
240 minute summer	S21	124	132.053	0.053	7.5	0.0762	0.0000	OK
240 minute summer	S22	124	131.521	0.071	9.4	0.1013	0.0000	OK
240 minute summer	S23	124	131.263	0.063	11.2	0.0900	0.0000	OK
240 minute summer	S24	124	130.861	0.061	12.1	0.0877	0.0000	OK
240 minute summer	S25	124	130.322	0.097	15.7	0.1389	0.0000	OK
240 minute summer	S26	252	130.305	0.134	18.1	0.1924	0.0000	OK
240 minute summer	S27	252	130.304	0.154	18.0	0.2210	0.0000	OK
240 minute summer	S28	124	131.072	0.047	6.3	0.0677	0.0000	OK
240 minute summer	S29	124	130.807	0.082	18.6	0.1168	0.0000	OK
240 minute summer	S30	124	130.546	0.096	18.5	0.1368	0.0000	OK
240 minute summer	S31	124	130.342	0.092	18.3	0.1316	0.0000	OK
240 minute summer	S32	272	130.301	0.151	18.2	0.2671	0.0000	OK
240 minute summer	S33	248	130.305	0.305	38.9	132.1651	0.0000	SURCHARGED
240 minute summer	S34	248	130.305	0.345	2.0	1.9760	0.0000	SURCHARGED
240 minute summer	H8205	128	129.554	0.104	39.0	0.1485	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	H6808	1.000	H7801	1.4	0.487	0.025	0.0639	
240 minute summer	H7801	1.001	H7907	4.2	1.147	0.044	0.0939	
240 minute summer	H7907	1.002	H7908	8.1	1.703	0.065	0.2633	
240 minute summer	H7908	1.003	H7905	9.8	1.857	0.072	0.0724	
240 minute summer	H7905	1.004	H7906	11.6	1.938	0.085	0.1325	
240 minute summer	H7906	1.005	H8001	13.8	1.837	0.106	0.3673	
240 minute summer	H8001	1.006	H8002	17.2	2.014	0.156	0.4108	
240 minute summer	H8002	1.007	H8105	20.8	1.458	0.118	0.6482	
240 minute summer	H8105	1.008	H8103	22.6	1.412	0.168	0.5551	
240 minute summer	H8103	1.009	H8104	22.6	1.280	0.078	0.2886	
240 minute summer	H8104	1.010	H8207	28.4	1.321	0.135	1.7318	
240 minute summer	H8207	1.011	H8206	32.6	1.432	0.136	0.6735	
240 minute summer	H8206	1.012	H8205	35.5	1.464	0.147	0.5158	
240 minute summer	S21	2.000	S22	7.5	0.841	0.124	0.3657	
240 minute summer	S22	2.001	S23	9.3	0.889	0.204	0.2377	
240 minute summer	S23	2.002	S24	11.1	1.060	0.094	0.3671	
240 minute summer	S24	2.003	S25	12.0	1.187	0.089	0.3417	
240 minute summer	S25	2.004	S26	15.7	0.700	0.133	0.4148	
240 minute summer	S26	2.005	S27	18.0	0.964	0.141	0.1898	
240 minute summer	S27	2.006	S33	18.0	0.798	0.034	2.4929	
240 minute summer	S28	3.000	S29	6.3	0.566	0.055	0.3174	
240 minute summer	S29	3.001	S30	18.5	1.240	0.147	0.2344	
240 minute summer	S30	3.002	S31	18.3	0.853	0.139	0.9806	
240 minute summer	S31	3.003	S32	18.2	1.035	0.122	0.4635	
240 minute summer	S32	3.004	S33	18.1	0.855	0.031	2.0095	
240 minute summer	S33	2.007	S34	2.0	0.299	0.051	0.2706	
240 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
240 minute summer	H8205	1.013	H8204	39.1	1.702	0.148	0.3994	

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Results for 2 year 240 minute summer. 3120 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	H8204	128	129.243	0.093	39.1	0.1328	0.0000	OK
240 minute summer	S7202	128	130.135	0.135	81.5	0.1932	0.0000	OK
240 minute summer	S8208	132	129.537	0.107	81.5	0.1533	0.0000	OK
240 minute summer	S8201	128	128.954	0.144	124.6	0.2054	0.0000	OK
240 minute summer	S8203	128	128.155	0.135	124.5	0.1930	0.0000	OK
240 minute summer	S7324	128	127.923	0.123	124.5	0.0000	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	H8204	1.014	S8201	39.2	1.323	0.132	0.4622	
240 minute summer	S7202	4.000	S8208	81.5	2.378	0.170	0.8943	
240 minute summer	S8208	4.001	S8201	81.5	2.289	0.116	0.4771	
240 minute summer	S8201	1.015	S8203	124.5	2.989	0.190	0.8076	
240 minute summer	S8203	1.016	S7324	124.5	1.659	0.169	1.2801	727.9

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Results for 2 year 240 minute winter. 3120 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 winter	H6808	156	145.011	0.024	1.3	0.0340	0.0000	OK
240 minute winter	H7801	192	144.772	0.031	3.8	0.0445	0.0000	OK
240 minute winter	H7907	128	144.002	0.034	6.3	0.0490	0.0000	OK
240 minute winter	H7908	128	140.823	0.037	7.6	0.0525	0.0000	OK
240 minute winter	H7905	128	139.908	0.039	8.8	0.0556	0.0000	OK
240 minute winter	H7906	128	138.427	0.043	10.5	0.0616	0.0000	OK
240 minute winter	H8001	128	135.396	0.053	13.1	0.0757	0.0000	OK
240 minute winter	H8002	128	133.187	0.060	15.8	0.0864	0.0000	OK
240 minute winter	H8105	128	132.074	0.073	17.1	0.1051	0.0000	OK
240 minute winter	H8103	128	131.477	0.061	17.1	0.0876	0.0000	OK
240 minute winter	H8104	128	131.155	0.080	21.0	0.1141	0.0000	OK
240 minute winter	H8207	128	130.265	0.081	23.8	0.1154	0.0000	OK
240 minute winter	H8206	128	129.845	0.085	25.8	0.1214	0.0000	OK
240 minute winter	S21	124	132.044	0.044	5.0	0.0624	0.0000	OK
240 minute winter	S22	124	131.508	0.058	6.3	0.0824	0.0000	OK
240 minute winter	S23	124	131.252	0.052	7.6	0.0742	0.0000	OK
240 minute winter	S24	128	130.851	0.051	8.3	0.0726	0.0000	OK
240 minute winter	S25	244	130.306	0.081	10.8	0.1160	0.0000	OK
240 minute winter	S26	248	130.306	0.136	12.4	0.1948	0.0000	OK
240 minute winter	S27	248	130.306	0.156	12.4	0.2234	0.0000	OK
240 minute winter	S28	124	131.064	0.039	4.2	0.0558	0.0000	OK
240 minute winter	S29	124	130.791	0.066	12.4	0.0945	0.0000	OK
240 minute winter	S30	124	130.528	0.078	12.4	0.1117	0.0000	OK
240 minute winter	S31	124	130.326	0.075	12.3	0.1080	0.0000	OK
240 minute winter	S32	264	130.306	0.156	12.3	0.2761	0.0000	OK
240 minute winter	S33	244	130.306	0.306	26.8	132.6752	0.0000	SURCHARGED
240 minute winter	S34	244	130.306	0.346	1.9	1.9822	0.0000	SURCHARGED
240 minute winter	H8205	128	129.538	0.088	28.7	0.1263	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	H6808	1.000	H7801	1.3	0.475	0.023	0.0597	
240 minute winter	H7801	1.001	H7907	3.8	1.158	0.040	0.0817	
240 minute winter	H7907	1.002	H7908	6.3	1.597	0.050	0.2198	
240 minute winter	H7908	1.003	H7905	7.6	1.739	0.056	0.0601	
240 minute winter	H7905	1.004	H7906	8.8	1.797	0.065	0.1095	
240 minute winter	H7906	1.005	H8001	10.5	1.702	0.081	0.3024	
240 minute winter	H8001	1.006	H8002	13.1	1.865	0.119	0.3379	
240 minute winter	H8002	1.007	H8105	15.8	1.353	0.090	0.5304	
240 minute winter	H8105	1.008	H8103	17.1	1.306	0.127	0.4540	
240 minute winter	H8103	1.009	H8104	17.1	1.195	0.059	0.2334	
240 minute winter	H8104	1.010	H8207	21.0	1.220	0.100	1.3864	
240 minute winter	H8207	1.011	H8206	23.8	1.323	0.099	0.5321	
240 minute winter	H8206	1.012	H8205	25.8	1.344	0.107	0.4080	
240 minute winter	S21	2.000	S22	5.0	0.750	0.083	0.2744	
240 minute winter	S22	2.001	S23	6.3	0.799	0.138	0.1789	
240 minute winter	S23	2.002	S24	7.6	0.949	0.064	0.2787	
240 minute winter	S24	2.003	S25	8.3	1.064	0.061	0.2612	
240 minute winter	S25	2.004	S26	10.8	0.633	0.091	0.4202	
240 minute winter	S26	2.005	S27	12.4	0.858	0.097	0.1928	
240 minute winter	S27	2.006	S33	12.4	0.802	0.023	2.5121	
240 minute winter	S28	3.000	S29	4.2	0.508	0.037	0.2364	
240 minute winter	S29	3.001	S30	12.4	1.113	0.099	0.1749	
240 minute winter	S30	3.002	S31	12.3	0.763	0.094	0.7378	
240 minute winter	S31	3.003	S32	12.3	0.923	0.083	0.4808	
240 minute winter	S32	3.004	S33	12.3	0.862	0.021	2.0435	
240 minute winter	S33	2.007	S34	1.9	0.312	0.047	0.2706	
240 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
240 minute winter	H8205	1.013	H8204	28.7	1.584	0.109	0.3150	

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Results for 2 year 240 minute winter. 3120 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 winter	H8204	128	129.228	0.078	28.7	0.1116	0.0000	OK
240 minute winter	S7202	132	130.114	0.114	58.9	0.1628	0.0000	OK
240 minute winter	S8208	132	129.519	0.089	58.9	0.1279	0.0000	OK
240 minute winter	S8201	128	128.930	0.120	90.5	0.1721	0.0000	OK
240 minute winter	S8203	128	128.133	0.113	90.5	0.1621	0.0000	OK
240 minute winter	S7324	128	127.905	0.105	90.4	0.0000	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	H8204	1.014	S8201	28.7	1.242	0.096	0.3624	
240 minute winter	S7202	4.000	S8208	58.9	2.202	0.123	0.6982	
240 minute winter	S8208	4.001	S8201	58.9	2.108	0.084	0.3717	
240 minute winter	S8201	1.015	S8203	90.5	2.775	0.138	0.6317	
240 minute winter	S8203	1.016	S7324	90.4	1.527	0.123	1.0105	733.7

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Results for 2 year 360 minute summer. 3240 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	H6808	192	145.011	0.024	1.3	0.0341	0.0000	OK
360 minute summer	H7801	184	144.772	0.031	3.9	0.0443	0.0000	OK
360 minute summer	H7907	184	144.004	0.036	7.1	0.0516	0.0000	OK
360 minute summer	H7908	184	140.825	0.039	8.5	0.0553	0.0000	OK
360 minute summer	H7905	184	139.910	0.041	10.0	0.0590	0.0000	OK
360 minute summer	H7906	184	138.430	0.046	11.8	0.0652	0.0000	OK
360 minute summer	H8001	184	135.399	0.056	14.8	0.0802	0.0000	OK
360 minute summer	H8002	184	133.191	0.064	17.7	0.0911	0.0000	OK
360 minute summer	H8105	184	132.079	0.078	19.2	0.1110	0.0000	OK
360 minute summer	H8103	184	131.481	0.065	19.0	0.0925	0.0000	OK
360 minute summer	H8104	184	131.159	0.084	23.7	0.1208	0.0000	OK
360 minute summer	H8207	184	130.270	0.085	26.9	0.1223	0.0000	OK
360 minute summer	H8206	184	129.850	0.090	29.0	0.1291	0.0000	OK
360 minute summer	S21	184	132.048	0.048	6.0	0.0680	0.0000	OK
360 minute summer	S22	184	131.513	0.063	7.5	0.0896	0.0000	OK
360 minute summer	S23	184	131.256	0.056	8.9	0.0801	0.0000	OK
360 minute summer	S24	184	130.854	0.054	9.6	0.0779	0.0000	OK
360 minute summer	S25	368	130.338	0.113	12.5	0.1621	0.0000	OK
360 minute summer	S26	368	130.338	0.168	14.3	0.2409	0.0000	OK
360 minute summer	S27	368	130.338	0.188	14.3	0.2695	0.0000	OK
360 minute summer	S28	184	131.067	0.042	5.0	0.0605	0.0000	OK
360 minute summer	S29	184	130.797	0.072	14.7	0.1031	0.0000	OK
360 minute summer	S30	184	130.535	0.085	14.6	0.1212	0.0000	OK
360 minute summer	S31	376	130.339	0.089	14.5	0.1271	0.0000	OK
360 minute summer	S32	360	130.343	0.193	14.3	0.3408	0.0000	OK
360 minute summer	S33	368	130.338	0.338	30.9	147.8684	0.0000	SURCHARGED
360 minute summer	S34	368	130.338	0.378	1.9	2.1656	0.0000	SURCHARGED
360 minute summer	H8205	184	129.544	0.093	32.1	0.1338	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	H6808	1.000	H7801	1.3	0.477	0.024	0.0603	
360 minute summer	H7801	1.001	H7907	3.9	1.146	0.041	0.0864	
360 minute summer	H7907	1.002	H7908	7.0	1.629	0.056	0.2373	
360 minute summer	H7908	1.003	H7905	8.5	1.786	0.063	0.0652	
360 minute summer	H7905	1.004	H7906	9.9	1.859	0.074	0.1190	
360 minute summer	H7906	1.005	H8001	11.8	1.761	0.090	0.3278	
360 minute summer	H8001	1.006	H8002	14.7	1.924	0.133	0.3661	
360 minute summer	H8002	1.007	H8105	17.6	1.394	0.100	0.5729	
360 minute summer	H8105	1.008	H8103	19.0	1.344	0.141	0.4901	
360 minute summer	H8103	1.009	H8104	19.0	1.225	0.065	0.2527	
360 minute summer	H8104	1.010	H8207	23.5	1.256	0.111	1.5044	
360 minute summer	H8207	1.011	H8206	26.6	1.359	0.111	0.5792	
360 minute summer	H8206	1.012	H8205	28.9	1.384	0.119	0.4437	
360 minute summer	S21	2.000	S22	6.0	0.793	0.099	0.3096	
360 minute summer	S22	2.001	S23	7.4	0.834	0.162	0.2008	
360 minute summer	S23	2.002	S24	8.8	0.993	0.074	0.3100	
360 minute summer	S24	2.003	S25	9.5	1.107	0.070	0.2887	
360 minute summer	S25	2.004	S26	12.4	0.658	0.106	0.5961	
360 minute summer	S26	2.005	S27	14.3	0.897	0.112	0.2506	
360 minute summer	S27	2.006	S33	14.2	0.724	0.027	2.9657	
360 minute summer	S28	3.000	S29	5.0	0.533	0.043	0.2671	
360 minute summer	S29	3.001	S30	14.6	1.163	0.116	0.1972	
360 minute summer	S30	3.002	S31	14.5	0.799	0.110	0.8257	
360 minute summer	S31	3.003	S32	14.3	0.965	0.096	0.6851	
360 minute summer	S32	3.004	S33	14.2	0.761	0.024	2.4386	
360 minute summer	S33	2.007	S34	1.9	0.275	0.048	0.2706	
360 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
360 minute summer	H8205	1.013	H8204	32.0	1.624	0.121	0.3426	

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Results for 2 year 360 minute summer. 3240 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	H8204	184	129.233	0.083	32.0	0.1186	0.0000	OK
360 minute summer	S7202	192	130.121	0.121	65.8	0.1725	0.0000	OK
360 minute summer	S8208	192	129.525	0.095	65.8	0.1359	0.0000	OK
360 minute summer	S8201	192	128.937	0.127	99.8	0.1816	0.0000	OK
360 minute summer	S8203	192	128.140	0.119	99.9	0.1710	0.0000	OK
360 minute summer	S7324	192	127.910	0.110	99.9	0.0000	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	H8204	1.014	S8201	31.9	1.274	0.107	0.3897	
360 minute summer	S7202	4.000	S8208	65.8	2.262	0.137	0.7592	
360 minute summer	S8208	4.001	S8201	65.7	2.168	0.094	0.4028	
360 minute summer	S8201	1.015	S8203	99.9	2.842	0.152	0.6810	
360 minute summer	S8203	1.016	S7324	99.9	1.567	0.136	1.0872	841.1

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Results for 2 year 360 minute winter. 3240 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 winter	H6808	248	145.011	0.024	1.3	0.0341	0.0000	OK
360 minute winter	H7801	248	144.773	0.032	4.0	0.0454	0.0000	OK
360 minute winter	H7907	216	144.001	0.033	6.0	0.0478	0.0000	OK
360 minute winter	H7908	200	140.821	0.035	7.0	0.0503	0.0000	OK
360 minute winter	H7905	208	139.906	0.037	8.1	0.0533	0.0000	OK
360 minute winter	H7906	208	138.425	0.041	9.6	0.0589	0.0000	OK
360 minute winter	H8001	208	135.393	0.050	11.9	0.0720	0.0000	OK
360 minute winter	H8002	208	133.184	0.057	14.0	0.0813	0.0000	OK
360 minute winter	H8105	192	132.069	0.068	14.9	0.0978	0.0000	OK
360 minute winter	H8103	192	131.473	0.057	14.9	0.0817	0.0000	OK
360 minute winter	H8104	192	131.149	0.074	17.9	0.1054	0.0000	OK
360 minute winter	H8207	192	130.258	0.074	20.0	0.1055	0.0000	OK
360 minute winter	H8206	192	129.837	0.077	21.4	0.1102	0.0000	OK
360 minute winter	S21	184	132.039	0.039	3.9	0.0553	0.0000	OK
360 minute winter	S22	184	131.501	0.051	4.9	0.0725	0.0000	OK
360 minute winter	S23	184	131.246	0.046	5.9	0.0655	0.0000	OK
360 minute winter	S24	184	130.845	0.045	6.4	0.0638	0.0000	OK
360 minute winter	S25	360	130.340	0.115	8.3	0.1647	0.0000	OK
360 minute winter	S26	360	130.340	0.170	9.5	0.2434	0.0000	OK
360 minute winter	S27	360	130.340	0.190	9.5	0.2721	0.0000	OK
360 minute winter	S28	184	131.059	0.034	3.2	0.0491	0.0000	OK
360 minute winter	S29	184	130.783	0.058	9.5	0.0824	0.0000	OK
360 minute winter	S30	184	130.518	0.068	9.5	0.0978	0.0000	OK
360 minute winter	S31	352	130.341	0.091	9.5	0.1308	0.0000	OK
360 minute winter	S32	368	130.344	0.194	9.4	0.3430	0.0000	OK
360 minute winter	S33	360	130.340	0.340	20.7	148.7596	0.0000	SURCHARGED
360 minute winter	S34	360	130.340	0.380	1.8	2.1758	0.0000	SURCHARGED
360 minute winter	H8205	192	129.530	0.080	24.0	0.1149	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	H6808	1.000	H7801	1.3	0.466	0.024	0.0617	
360 minute winter	H7801	1.001	H7907	4.0	1.161	0.042	0.0823	
360 minute winter	H7907	1.002	H7908	6.0	1.586	0.048	0.2092	
360 minute winter	H7908	1.003	H7905	7.0	1.705	0.052	0.0565	
360 minute winter	H7905	1.004	H7906	8.1	1.756	0.060	0.1029	
360 minute winter	H7906	1.005	H8001	9.6	1.662	0.073	0.2822	
360 minute winter	H8001	1.006	H8002	11.9	1.814	0.108	0.3146	
360 minute winter	H8002	1.007	H8105	14.0	1.315	0.079	0.4819	
360 minute winter	H8105	1.008	H8103	14.9	1.257	0.110	0.4107	
360 minute winter	H8103	1.009	H8104	14.9	1.168	0.051	0.2094	
360 minute winter	H8104	1.010	H8207	17.9	1.171	0.085	1.2287	
360 minute winter	H8207	1.011	H8206	19.9	1.266	0.083	0.4660	
360 minute winter	H8206	1.012	H8205	21.4	1.280	0.089	0.3562	
360 minute winter	S21	2.000	S22	3.9	0.700	0.065	0.2294	
360 minute winter	S22	2.001	S23	4.9	0.745	0.107	0.1494	
360 minute winter	S23	2.002	S24	5.9	0.885	0.049	0.2321	
360 minute winter	S24	2.003	S25	6.4	0.987	0.047	0.2173	
360 minute winter	S25	2.004	S26	8.3	0.589	0.070	0.6062	
360 minute winter	S26	2.005	S27	9.5	0.792	0.074	0.2538	
360 minute winter	S27	2.006	S33	9.5	0.729	0.018	2.9919	
360 minute winter	S28	3.000	S29	3.2	0.470	0.028	0.1948	
360 minute winter	S29	3.001	S30	9.5	1.033	0.076	0.1444	
360 minute winter	S30	3.002	S31	9.5	0.707	0.072	0.6100	
360 minute winter	S31	3.003	S32	9.4	0.851	0.063	0.6960	
360 minute winter	S32	3.004	S33	9.4	0.772	0.016	2.4591	
360 minute winter	S33	2.007	S34	1.8	0.284	0.045	0.2706	
360 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
360 minute winter	H8205	1.013	H8204	24.0	1.512	0.091	0.2759	

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Results for 2 year 360 minute winter. 3240 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 winter	H8204	192	129.221	0.071	24.0	0.1019	0.0000	OK
360 minute winter	S7202	192	130.100	0.100	45.8	0.1429	0.0000	OK
360 minute winter	S8208	192	129.508	0.078	45.8	0.1116	0.0000	OK
360 minute winter	S8201	192	128.916	0.106	72.1	0.1523	0.0000	OK
360 minute winter	S8203	192	128.120	0.100	72.0	0.1435	0.0000	OK
360 minute winter	S7324	192	127.894	0.094	72.0	0.0000	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	H8204	1.014	S8201	24.0	1.230	0.081	0.3100	
360 minute winter	S7202	4.000	S8208	45.8	2.071	0.095	0.5775	
360 minute winter	S8208	4.001	S8201	45.8	1.964	0.065	0.3100	
360 minute winter	S8201	1.015	S8203	72.0	2.627	0.110	0.5313	
360 minute winter	S8203	1.016	S7324	72.0	1.438	0.098	0.8546	852.7

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Results for 2 year 480 minute summer. 3360 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
480 minute summer	H6808	296	145.010	0.023	1.2	0.0328	0.0000	OK
480 minute summer	H7801	312	144.771	0.030	3.6	0.0432	0.0000	OK
480 minute summer	H7907	248	144.001	0.033	6.0	0.0477	0.0000	OK
480 minute summer	H7908	248	140.822	0.036	7.2	0.0509	0.0000	OK
480 minute summer	H7905	248	139.907	0.038	8.4	0.0542	0.0000	OK
480 minute summer	H7906	248	138.426	0.042	9.9	0.0597	0.0000	OK
480 minute summer	H8001	248	135.394	0.051	12.4	0.0734	0.0000	OK
480 minute summer	H8002	248	133.186	0.058	14.8	0.0837	0.0000	OK
480 minute summer	H8105	248	132.072	0.071	16.1	0.1018	0.0000	OK
480 minute summer	H8103	248	131.475	0.059	16.1	0.0849	0.0000	OK
480 minute summer	H8104	248	131.153	0.078	19.9	0.1110	0.0000	OK
480 minute summer	H8207	248	130.262	0.078	22.6	0.1122	0.0000	OK
480 minute summer	H8206	248	129.842	0.082	24.4	0.1180	0.0000	OK
480 minute summer	S21	248	132.042	0.042	4.7	0.0606	0.0000	OK
480 minute summer	S22	248	131.506	0.056	5.9	0.0798	0.0000	OK
480 minute summer	S23	248	131.250	0.050	7.1	0.0719	0.0000	OK
480 minute summer	S24	248	130.849	0.049	7.7	0.0701	0.0000	OK
480 minute summer	S25	488	130.354	0.129	10.1	0.1845	0.0000	OK
480 minute summer	S26	488	130.354	0.184	11.6	0.2634	0.0000	OK
480 minute summer	S27	488	130.354	0.204	11.6	0.2921	0.0000	OK
480 minute summer	S28	248	131.063	0.038	4.0	0.0545	0.0000	OK
480 minute summer	S29	248	130.789	0.064	11.7	0.0918	0.0000	OK
480 minute summer	S30	248	130.526	0.076	11.7	0.1087	0.0000	OK
480 minute summer	S31	488	130.353	0.103	11.7	0.1475	0.0000	OK
480 minute summer	S32	480	130.357	0.207	11.7	0.3660	0.0000	OK
480 minute summer	S33	488	130.354	0.354	25.3	155.3703	0.0000	SURCHARGED
480 minute summer	S34	488	130.354	0.394	1.8	2.2539	0.0000	SURCHARGED
480 minute summer	H8205	248	129.536	0.086	27.3	0.1229	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	H6808	1.000	H7801	1.2	0.459	0.022	0.0574	
480 minute summer	H7801	1.001	H7907	3.6	1.134	0.038	0.0780	
480 minute summer	H7907	1.002	H7908	6.0	1.563	0.048	0.2110	
480 minute summer	H7908	1.003	H7905	7.2	1.706	0.053	0.0577	
480 minute summer	H7905	1.004	H7906	8.4	1.773	0.062	0.1051	
480 minute summer	H7906	1.005	H8001	9.9	1.669	0.076	0.2891	
480 minute summer	H8001	1.006	H8002	12.3	1.833	0.112	0.3233	
480 minute summer	H8002	1.007	H8105	14.8	1.327	0.084	0.5070	
480 minute summer	H8105	1.008	H8103	16.1	1.284	0.119	0.4344	
480 minute summer	H8103	1.009	H8104	16.1	1.173	0.055	0.2237	
480 minute summer	H8104	1.010	H8207	19.9	1.201	0.094	1.3321	
480 minute summer	H8207	1.011	H8206	22.5	1.304	0.094	0.5109	
480 minute summer	H8206	1.012	H8205	24.4	1.324	0.101	0.3920	
480 minute summer	S21	2.000	S22	4.7	0.739	0.078	0.2627	
480 minute summer	S22	2.001	S23	5.9	0.785	0.130	0.1712	
480 minute summer	S23	2.002	S24	7.1	0.933	0.060	0.2659	
480 minute summer	S24	2.003	S25	7.7	1.043	0.057	0.2486	
480 minute summer	S25	2.004	S26	10.1	0.622	0.086	0.6854	
480 minute summer	S26	2.005	S27	11.6	0.842	0.091	0.2791	
480 minute summer	S27	2.006	S33	11.6	0.690	0.022	3.1907	
480 minute summer	S28	3.000	S29	4.0	0.504	0.035	0.2275	
480 minute summer	S29	3.001	S30	11.7	1.096	0.093	0.1680	
480 minute summer	S30	3.002	S31	11.7	0.752	0.089	0.7100	
480 minute summer	S31	3.003	S32	11.7	0.909	0.079	0.7820	
480 minute summer	S32	3.004	S33	11.7	0.744	0.020	2.6170	
480 minute summer	S33	2.007	S34	1.8	0.253	0.046	0.2706	
480 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
480 minute summer	H8205	1.013	H8204	27.2	1.564	0.103	0.3029	

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Results for 2 year 480 minute summer. 3360 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
480 minute summer	H8204	248	129.226	0.076	27.2	0.1086	0.0000	OK
480 minute summer	S7202	248	130.110	0.110	55.6	0.1580	0.0000	OK
480 minute summer	S8208	248	129.517	0.087	55.5	0.1238	0.0000	OK
480 minute summer	S8201	248	128.927	0.117	85.6	0.1670	0.0000	OK
480 minute summer	S8203	248	128.130	0.110	85.5	0.1572	0.0000	OK
480 minute summer	S7324	248	127.902	0.102	85.4	0.0000	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	H8204	1.014	S8201	27.2	1.221	0.091	0.3477	
480 minute summer	S7202	4.000	S8208	55.5	2.171	0.116	0.6680	
480 minute summer	S8208	4.001	S8201	55.5	2.073	0.079	0.3559	
480 minute summer	S8201	1.015	S8203	85.5	2.738	0.131	0.6052	
480 minute summer	S8203	1.016	S7324	85.4	1.504	0.116	0.9691	917.8

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Results for 2 year 480 minute winter. 3360 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
480 minute winter	H6808	288	145.010	0.023	1.2	0.0328	0.0000	OK
480 minute winter	H7801	304	144.772	0.031	3.8	0.0440	0.0000	OK
480 minute winter	H7907	288	144.000	0.032	5.6	0.0462	0.0000	OK
480 minute winter	H7908	288	140.820	0.034	6.4	0.0482	0.0000	OK
480 minute winter	H7905	272	139.905	0.036	7.4	0.0510	0.0000	OK
480 minute winter	H7906	272	138.423	0.039	8.7	0.0561	0.0000	OK
480 minute winter	H8001	272	135.391	0.048	10.8	0.0684	0.0000	OK
480 minute winter	H8002	272	133.181	0.054	12.6	0.0774	0.0000	OK
480 minute winter	H8105	272	132.066	0.065	13.3	0.0923	0.0000	OK
480 minute winter	H8103	272	131.470	0.054	13.3	0.0774	0.0000	OK
480 minute winter	H8104	256	131.144	0.069	15.6	0.0987	0.0000	OK
480 minute winter	H8207	256	130.253	0.069	17.3	0.0984	0.0000	OK
480 minute winter	H8206	248	129.832	0.072	18.6	0.1024	0.0000	OK
480 minute winter	S21	248	132.035	0.035	3.2	0.0502	0.0000	OK
480 minute winter	S22	248	131.496	0.046	4.0	0.0655	0.0000	OK
480 minute winter	S23	248	131.242	0.041	4.8	0.0593	0.0000	OK
480 minute winter	S24	248	130.840	0.040	5.2	0.0578	0.0000	OK
480 minute winter	S25	472	130.359	0.134	6.8	0.1921	0.0000	OK
480 minute winter	S26	472	130.359	0.189	7.8	0.2706	0.0000	OK
480 minute winter	S27	472	130.359	0.209	7.8	0.2992	0.0000	OK
480 minute winter	S28	240	131.056	0.031	2.6	0.0445	0.0000	OK
480 minute winter	S29	248	130.777	0.052	7.7	0.0742	0.0000	OK
480 minute winter	S30	248	130.512	0.062	7.7	0.0883	0.0000	OK
480 minute winter	S31	480	130.360	0.110	7.7	0.1577	0.0000	OK
480 minute winter	S32	448	130.361	0.211	7.7	0.3735	0.0000	OK
480 minute winter	S33	480	130.359	0.359	17.2	157.8844	0.0000	SURCHARGED
480 minute winter	S34	480	130.359	0.399	1.8	2.2870	0.0000	SURCHARGED
480 minute winter	H8205	256	129.525	0.075	21.0	0.1073	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	H6808	1.000	H7801	1.2	0.460	0.022	0.0587	
480 minute winter	H7801	1.001	H7907	3.8	1.132	0.040	0.0785	
480 minute winter	H7907	1.002	H7908	5.6	1.556	0.044	0.1979	
480 minute winter	H7908	1.003	H7905	6.4	1.664	0.047	0.0530	
480 minute winter	H7905	1.004	H7906	7.4	1.707	0.055	0.0960	
480 minute winter	H7906	1.005	H8001	8.7	1.614	0.066	0.2627	
480 minute winter	H8001	1.006	H8002	10.7	1.761	0.097	0.2929	
480 minute winter	H8002	1.007	H8105	12.6	1.284	0.072	0.4464	
480 minute winter	H8105	1.008	H8103	13.3	1.217	0.099	0.3788	
480 minute winter	H8103	1.009	H8104	13.3	1.135	0.046	0.1914	
480 minute winter	H8104	1.010	H8207	15.6	1.128	0.074	1.1146	
480 minute winter	H8207	1.011	H8206	17.3	1.221	0.072	0.4198	
480 minute winter	H8206	1.012	H8205	18.6	1.228	0.077	0.3215	
480 minute winter	S21	2.000	S22	3.2	0.663	0.053	0.1989	
480 minute winter	S22	2.001	S23	4.0	0.704	0.088	0.1295	
480 minute winter	S23	2.002	S24	4.8	0.835	0.040	0.2010	
480 minute winter	S24	2.003	S25	5.2	0.930	0.038	0.1882	
480 minute winter	S25	2.004	S26	6.8	0.557	0.058	0.7149	
480 minute winter	S26	2.005	S27	7.8	0.747	0.061	0.2882	
480 minute winter	S27	2.006	S33	7.8	0.681	0.015	3.2639	
480 minute winter	S28	3.000	S29	2.6	0.446	0.023	0.1678	
480 minute winter	S29	3.001	S30	7.7	0.974	0.061	0.1244	
480 minute winter	S30	3.002	S31	7.7	0.676	0.058	0.6634	
480 minute winter	S31	3.003	S32	7.7	0.801	0.052	0.8057	
480 minute winter	S32	3.004	S33	8.1	0.729	0.014	2.6615	
480 minute winter	S33	2.007	S34	1.8	0.260	0.046	0.2706	
480 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
480 minute winter	H8205	1.013	H8204	21.0	1.456	0.080	0.2507	

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Results for 2 year 480 minute winter. 3360 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
480 minute winter	H8204	256	129.217	0.067	21.0	0.0956	0.0000	OK
480 minute winter	S7202	248	130.091	0.090	37.7	0.1295	0.0000	OK
480 minute winter	S8208	248	129.500	0.070	37.7	0.1005	0.0000	OK
480 minute winter	S8201	248	128.907	0.097	60.5	0.1389	0.0000	OK
480 minute winter	S8203	248	128.112	0.091	60.5	0.1309	0.0000	OK
480 minute winter	S7324	248	127.886	0.086	60.5	0.0000	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	H8204	1.014	S8201	21.0	1.214	0.071	0.2759	
480 minute winter	S7202	4.000	S8208	37.7	1.973	0.079	0.4992	
480 minute winter	S8208	4.001	S8201	37.7	1.860	0.054	0.2696	
480 minute winter	S8201	1.015	S8203	60.5	2.517	0.092	0.4660	
480 minute winter	S8203	1.016	S7324	60.5	1.372	0.082	0.7526	934.0

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Results for 2 year 600 minute summer. 3480 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
600 minute summer	H6808	330	145.009	0.022	1.1	0.0315	0.0000	OK
600 minute summer	H7801	375	144.770	0.029	3.4	0.0419	0.0000	OK
600 minute summer	H7907	315	144.000	0.032	5.5	0.0457	0.0000	OK
600 minute summer	H7908	315	140.820	0.034	6.6	0.0488	0.0000	OK
600 minute summer	H7905	315	139.905	0.036	7.6	0.0516	0.0000	OK
600 minute summer	H7906	315	138.424	0.040	9.0	0.0570	0.0000	OK
600 minute summer	H8001	315	135.392	0.049	11.2	0.0697	0.0000	OK
600 minute summer	H8002	315	133.183	0.056	13.3	0.0794	0.0000	OK
600 minute summer	H8105	315	132.068	0.067	14.4	0.0961	0.0000	OK
600 minute summer	H8103	315	131.472	0.056	14.4	0.0804	0.0000	OK
600 minute summer	H8104	315	131.148	0.073	17.5	0.1041	0.0000	OK
600 minute summer	H8207	315	130.257	0.073	19.6	0.1046	0.0000	OK
600 minute summer	H8206	315	129.837	0.077	21.2	0.1095	0.0000	OK
600 minute summer	S21	315	132.039	0.039	3.9	0.0553	0.0000	OK
600 minute summer	S22	315	131.501	0.051	4.9	0.0726	0.0000	OK
600 minute summer	S23	315	131.246	0.046	5.9	0.0656	0.0000	OK
600 minute summer	S24	315	130.845	0.045	6.4	0.0640	0.0000	OK
600 minute summer	S25	600	130.362	0.137	8.3	0.1966	0.0000	OK
600 minute summer	S26	600	130.362	0.192	9.5	0.2751	0.0000	OK
600 minute summer	S27	600	130.362	0.212	9.5	0.3037	0.0000	OK
600 minute summer	S28	315	131.060	0.035	3.3	0.0498	0.0000	OK
600 minute summer	S29	315	130.783	0.058	9.7	0.0833	0.0000	OK
600 minute summer	S30	315	130.519	0.069	9.7	0.0990	0.0000	OK
600 minute summer	S31	600	130.363	0.113	9.7	0.1620	0.0000	OK
600 minute summer	S32	585	130.365	0.215	9.7	0.3793	0.0000	OK
600 minute summer	S33	600	130.362	0.362	20.3	159.4012	0.0000	SURCHARGED
600 minute summer	S34	600	130.363	0.402	1.8	2.3047	0.0000	SURCHARGED
600 minute summer	H8205	315	129.530	0.080	23.8	0.1145	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	H6808	1.000	H7801	1.1	0.456	0.020	0.0549	
600 minute summer	H7801	1.001	H7907	3.4	1.105	0.036	0.0740	
600 minute summer	H7907	1.002	H7908	5.5	1.521	0.044	0.1984	
600 minute summer	H7908	1.003	H7905	6.6	1.672	0.049	0.0540	
600 minute summer	H7905	1.004	H7906	7.6	1.715	0.056	0.0981	
600 minute summer	H7906	1.005	H8001	9.0	1.628	0.069	0.2692	
600 minute summer	H8001	1.006	H8002	11.1	1.780	0.101	0.3004	
600 minute summer	H8002	1.007	H8105	13.3	1.290	0.076	0.4685	
600 minute summer	H8105	1.008	H8103	14.4	1.245	0.106	0.4005	
600 minute summer	H8103	1.009	H8104	14.4	1.142	0.049	0.2052	
600 minute summer	H8104	1.010	H8207	17.4	1.160	0.083	1.2101	
600 minute summer	H8207	1.011	H8206	19.6	1.258	0.082	0.4608	
600 minute summer	H8206	1.012	H8205	21.2	1.273	0.088	0.3537	
600 minute summer	S21	2.000	S22	3.9	0.701	0.065	0.2298	
600 minute summer	S22	2.001	S23	4.9	0.746	0.108	0.1497	
600 minute summer	S23	2.002	S24	5.9	0.886	0.050	0.2327	
600 minute summer	S24	2.003	S25	6.4	0.989	0.047	0.2179	
600 minute summer	S25	2.004	S26	8.3	0.586	0.070	0.7332	
600 minute summer	S26	2.005	S27	9.5	0.788	0.074	0.2939	
600 minute summer	S27	2.006	S33	9.3	0.665	0.017	3.3092	
600 minute summer	S28	3.000	S29	3.3	0.477	0.029	0.1984	
600 minute summer	S29	3.001	S30	9.7	1.040	0.077	0.1468	
600 minute summer	S30	3.002	S31	9.7	0.715	0.073	0.6976	
600 minute summer	S31	3.003	S32	9.7	0.853	0.065	0.8319	
600 minute summer	S32	3.004	S33	9.4	0.725	0.016	2.7074	
600 minute summer	S33	2.007	S34	1.8	0.246	0.046	0.2706	
600 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
600 minute summer	H8205	1.013	H8204	23.8	1.509	0.090	0.2746	

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Results for 2 year 600 minute summer. 3480 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
600 minute summer	H8204	315	129.221	0.071	23.8	0.1015	0.0000	OK
600 minute summer	S7202	315	130.101	0.101	46.9	0.1446	0.0000	OK
600 minute summer	S8208	315	129.509	0.079	46.9	0.1131	0.0000	OK
600 minute summer	S8201	315	128.917	0.107	73.0	0.1533	0.0000	OK
600 minute summer	S8203	315	128.121	0.101	72.9	0.1444	0.0000	OK
600 minute summer	S7324	315	127.894	0.094	72.9	0.0000	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	H8204	1.014	S8201	23.8	1.198	0.080	0.3113	
600 minute summer	S7202	4.000	S8208	46.9	2.081	0.098	0.5880	
600 minute summer	S8208	4.001	S8201	46.9	1.983	0.067	0.3141	
600 minute summer	S8201	1.015	S8203	72.9	2.635	0.111	0.5363	
600 minute summer	S8203	1.016	S7324	72.9	1.443	0.099	0.8623	977.9

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Results for 2 year 600 minute winter. 3480 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
600 minute winter	H6808	375	145.009	0.022	1.1	0.0315	0.0000	OK
600 minute winter	H7801	375	144.770	0.029	3.4	0.0418	0.0000	OK
600 minute winter	H7907	375	143.999	0.031	5.0	0.0438	0.0000	OK
600 minute winter	H7908	330	140.818	0.032	5.8	0.0458	0.0000	OK
600 minute winter	H7905	345	139.903	0.034	6.6	0.0483	0.0000	OK
600 minute winter	H7906	345	138.421	0.037	7.8	0.0533	0.0000	OK
600 minute winter	H8001	345	135.389	0.045	9.7	0.0650	0.0000	OK
600 minute winter	H8002	345	133.179	0.051	11.4	0.0737	0.0000	OK
600 minute winter	H8105	330	132.062	0.061	12.1	0.0879	0.0000	OK
600 minute winter	H8103	330	131.468	0.052	12.1	0.0739	0.0000	OK
600 minute winter	H8104	330	131.141	0.066	14.1	0.0939	0.0000	OK
600 minute winter	H8207	330	130.249	0.065	15.5	0.0930	0.0000	OK
600 minute winter	H8206	330	129.827	0.067	16.5	0.0963	0.0000	OK
600 minute winter	S21	315	132.032	0.032	2.7	0.0463	0.0000	OK
600 minute winter	S22	315	131.492	0.042	3.4	0.0603	0.0000	OK
600 minute winter	S23	315	131.238	0.038	4.1	0.0549	0.0000	OK
600 minute winter	S24	315	130.838	0.038	4.5	0.0539	0.0000	OK
600 minute winter	S25	585	130.364	0.139	5.8	0.1990	0.0000	OK
600 minute winter	S26	585	130.364	0.194	6.6	0.2776	0.0000	OK
600 minute winter	S27	585	130.364	0.214	6.6	0.3062	0.0000	OK
600 minute winter	S28	315	131.054	0.029	2.2	0.0411	0.0000	OK
600 minute winter	S29	315	130.773	0.048	6.5	0.0681	0.0000	OK
600 minute winter	S30	315	130.507	0.057	6.5	0.0814	0.0000	OK
600 minute winter	S31	585	130.364	0.114	6.5	0.1637	0.0000	OK
600 minute winter	S32	600	130.365	0.215	8.2	0.3801	0.0000	OK
600 minute winter	S33	585	130.364	0.364	14.7	160.2098	0.0000	SURCHARGED
600 minute winter	S34	585	130.364	0.404	1.8	2.3126	0.0000	SURCHARGED
600 minute winter	H8205	330	129.521	0.071	18.7	0.1012	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	H6808	1.000	H7801	1.1	0.444	0.020	0.0547	
600 minute winter	H7801	1.001	H7907	3.4	1.093	0.036	0.0731	
600 minute winter	H7907	1.002	H7908	5.0	1.508	0.040	0.1835	
600 minute winter	H7908	1.003	H7905	5.8	1.616	0.043	0.0492	
600 minute winter	H7905	1.004	H7906	6.6	1.657	0.049	0.0890	
600 minute winter	H7906	1.005	H8001	7.8	1.564	0.060	0.2442	
600 minute winter	H8001	1.006	H8002	9.7	1.711	0.088	0.2725	
600 minute winter	H8002	1.007	H8105	11.4	1.246	0.065	0.4155	
600 minute winter	H8105	1.008	H8103	12.1	1.184	0.089	0.3533	
600 minute winter	H8103	1.009	H8104	12.1	1.106	0.042	0.1787	
600 minute winter	H8104	1.010	H8207	14.1	1.098	0.067	1.0317	
600 minute winter	H8207	1.011	H8206	15.5	1.186	0.064	0.3857	
600 minute winter	H8206	1.012	H8205	16.5	1.187	0.068	0.2949	
600 minute winter	S21	2.000	S22	2.7	0.630	0.045	0.1769	
600 minute winter	S22	2.001	S23	3.4	0.671	0.075	0.1154	
600 minute winter	S23	2.002	S24	4.1	0.794	0.034	0.1805	
600 minute winter	S24	2.003	S25	4.5	0.891	0.033	0.2043	
600 minute winter	S25	2.004	S26	5.8	0.533	0.049	0.7430	
600 minute winter	S26	2.005	S27	6.6	0.707	0.051	0.2971	
600 minute winter	S27	2.006	S33	6.5	0.640	0.012	3.3337	
600 minute winter	S28	3.000	S29	2.2	0.424	0.019	0.1486	
600 minute winter	S29	3.001	S30	6.5	0.929	0.052	0.1101	
600 minute winter	S30	3.002	S31	6.5	0.643	0.049	0.7003	
600 minute winter	S31	3.003	S32	6.5	0.760	0.044	0.8416	
600 minute winter	S32	3.004	S33	7.4	0.676	0.012	2.7233	
600 minute winter	S33	2.007	S34	1.8	0.241	0.046	0.2706	
600 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
600 minute winter	H8205	1.013	H8204	18.7	1.412	0.071	0.2308	

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Results for 2 year 600 minute winter. 3480 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
600 minute winter	H8204	330	129.213	0.063	18.7	0.0903	0.0000	OK
600 minute winter	S7202	315	130.083	0.083	32.1	0.1194	0.0000	OK
600 minute winter	S8208	315	129.495	0.065	32.1	0.0926	0.0000	OK
600 minute winter	S8201	315	128.900	0.090	52.3	0.1287	0.0000	OK
600 minute winter	S8203	315	128.105	0.085	52.3	0.1213	0.0000	OK
600 minute winter	S7324	315	127.880	0.080	52.3	0.0000	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	H8204	1.014	S8201	18.7	1.198	0.063	0.2500	
600 minute winter	S7202	4.000	S8208	32.1	1.888	0.067	0.4442	
600 minute winter	S8208	4.001	S8201	32.1	1.774	0.046	0.2410	
600 minute winter	S8201	1.015	S8203	52.3	2.426	0.080	0.4180	
600 minute winter	S8203	1.016	S7324	52.3	1.317	0.071	0.6773	990.7

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Results for 2 year 720 minute summer. 3600 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
720 minute summer	H6808	420	145.009	0.022	1.1	0.0315	0.0000	OK
720 minute summer	H7801	420	144.770	0.029	3.4	0.0418	0.0000	OK
720 minute summer	H7907	375	143.999	0.031	5.1	0.0441	0.0000	OK
720 minute summer	H7908	375	140.819	0.033	6.1	0.0469	0.0000	OK
720 minute summer	H7905	375	139.904	0.035	7.0	0.0496	0.0000	OK
720 minute summer	H7906	375	138.422	0.038	8.3	0.0548	0.0000	OK
720 minute summer	H8001	375	135.390	0.047	10.4	0.0671	0.0000	OK
720 minute summer	H8002	375	133.181	0.053	12.3	0.0765	0.0000	OK
720 minute summer	H8105	375	132.065	0.064	13.2	0.0919	0.0000	OK
720 minute summer	H8103	375	131.470	0.054	13.2	0.0771	0.0000	OK
720 minute summer	H8104	375	131.145	0.070	16.0	0.0997	0.0000	OK
720 minute summer	H8207	375	130.254	0.070	18.0	0.1000	0.0000	OK
720 minute summer	H8206	375	129.833	0.073	19.3	0.1045	0.0000	OK
720 minute summer	S21	375	132.037	0.037	3.5	0.0525	0.0000	OK
720 minute summer	S22	375	131.498	0.048	4.4	0.0687	0.0000	OK
720 minute summer	S23	375	131.244	0.043	5.3	0.0622	0.0000	OK
720 minute summer	S24	375	130.843	0.043	5.8	0.0610	0.0000	OK
720 minute summer	S25	720	130.367	0.142	7.5	0.2031	0.0000	OK
720 minute summer	S26	720	130.367	0.197	8.6	0.2817	0.0000	OK
720 minute summer	S27	720	130.367	0.217	8.5	0.3103	0.0000	OK
720 minute summer	S28	375	131.058	0.033	2.9	0.0469	0.0000	OK
720 minute summer	S29	375	130.780	0.055	8.6	0.0784	0.0000	OK
720 minute summer	S30	375	130.515	0.065	8.6	0.0934	0.0000	OK
720 minute summer	S31	735	130.367	0.117	8.6	0.1672	0.0000	OK
720 minute summer	S32	705	130.368	0.218	8.6	0.3848	0.0000	OK
720 minute summer	S33	720	130.367	0.367	18.3	161.5411	0.0000	SURCHARGED
720 minute summer	S34	720	130.367	0.407	1.9	2.3297	0.0000	SURCHARGED
720 minute summer	H8205	375	129.527	0.077	21.9	0.1095	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	H6808	1.000	H7801	1.1	0.450	0.020	0.0547	
720 minute summer	H7801	1.001	H7907	3.4	1.092	0.036	0.0731	
720 minute summer	H7907	1.002	H7908	5.1	1.508	0.040	0.1879	
720 minute summer	H7908	1.003	H7905	6.1	1.635	0.045	0.0510	
720 minute summer	H7905	1.004	H7906	7.0	1.674	0.052	0.0926	
720 minute summer	H7906	1.005	H8001	8.3	1.585	0.063	0.2550	
720 minute summer	H8001	1.006	H8002	10.3	1.742	0.094	0.2851	
720 minute summer	H8002	1.007	H8105	12.3	1.266	0.070	0.4417	
720 minute summer	H8105	1.008	H8103	13.2	1.215	0.098	0.3767	
720 minute summer	H8103	1.009	H8104	13.2	1.115	0.045	0.1931	
720 minute summer	H8104	1.010	H8207	16.0	1.131	0.076	1.1364	
720 minute summer	H8207	1.011	H8206	17.9	1.229	0.075	0.4315	
720 minute summer	H8206	1.012	H8205	19.3	1.241	0.080	0.3312	
720 minute summer	S21	2.000	S22	3.5	0.680	0.058	0.2126	
720 minute summer	S22	2.001	S23	4.4	0.723	0.097	0.1386	
720 minute summer	S23	2.002	S24	5.3	0.856	0.045	0.2163	
720 minute summer	S24	2.003	S25	5.8	0.960	0.043	0.2150	
720 minute summer	S25	2.004	S26	7.5	0.569	0.064	0.7596	
720 minute summer	S26	2.005	S27	8.5	0.764	0.066	0.3023	
720 minute summer	S27	2.006	S33	8.4	0.653	0.016	3.3742	
720 minute summer	S28	3.000	S29	2.9	0.457	0.025	0.1816	
720 minute summer	S29	3.001	S30	8.6	1.005	0.069	0.1347	
720 minute summer	S30	3.002	S31	8.6	0.693	0.065	0.7210	
720 minute summer	S31	3.003	S32	8.6	0.824	0.058	0.8573	
720 minute summer	S32	3.004	S33	8.7	0.700	0.015	2.7525	
720 minute summer	S33	2.007	S34	1.9	0.232	0.047	0.2706	
720 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
720 minute summer	H8205	1.013	H8204	21.9	1.473	0.083	0.2581	

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Results for 2 year 720 minute summer. 3600 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
720 minute summer	H8204	375	129.218	0.068	21.9	0.0974	0.0000	OK
720 minute summer	S7202	375	130.095	0.095	41.9	0.1365	0.0000	OK
720 minute summer	S8208	375	129.504	0.074	41.9	0.1064	0.0000	OK
720 minute summer	S8201	375	128.912	0.101	65.8	0.1452	0.0000	OK
720 minute summer	S8203	375	128.116	0.096	65.8	0.1367	0.0000	OK
720 minute summer	S7324	375	127.890	0.090	65.8	0.0000	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	H8204	1.014	S8201	21.9	1.188	0.073	0.2901	
720 minute summer	S7202	4.000	S8208	41.9	2.024	0.087	0.5405	
720 minute summer	S8208	4.001	S8201	41.9	1.924	0.060	0.2895	
720 minute summer	S8201	1.015	S8203	65.8	2.571	0.100	0.4962	
720 minute summer	S8203	1.016	S7324	65.8	1.403	0.089	0.7996	1028.1

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Results for 2 year 720 minute winter. 3600 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
720 minute winter	H6808	420	145.008	0.021	1.0	0.0301	0.0000	OK
720 minute winter	H7801	435	144.769	0.028	3.2	0.0405	0.0000	OK
720 minute winter	H7907	420	143.998	0.030	4.7	0.0425	0.0000	OK
720 minute winter	H7908	405	140.817	0.031	5.4	0.0443	0.0000	OK
720 minute winter	H7905	435	139.902	0.033	6.2	0.0469	0.0000	OK
720 minute winter	H7906	435	138.420	0.036	7.3	0.0516	0.0000	OK
720 minute winter	H8001	420	135.387	0.044	9.0	0.0626	0.0000	OK
720 minute winter	H8002	420	133.176	0.049	10.5	0.0707	0.0000	OK
720 minute winter	H8105	420	132.060	0.059	11.0	0.0838	0.0000	OK
720 minute winter	H8103	420	131.465	0.049	11.0	0.0707	0.0000	OK
720 minute winter	H8104	405	131.137	0.062	12.7	0.0892	0.0000	OK
720 minute winter	H8207	390	130.246	0.062	13.9	0.0881	0.0000	OK
720 minute winter	H8206	390	129.824	0.064	14.8	0.0911	0.0000	OK
720 minute winter	S21	375	132.030	0.030	2.3	0.0429	0.0000	OK
720 minute winter	S22	375	131.489	0.039	2.9	0.0558	0.0000	OK
720 minute winter	S23	375	131.236	0.036	3.5	0.0510	0.0000	OK
720 minute winter	S24	375	130.835	0.035	3.8	0.0497	0.0000	OK
720 minute winter	S25	705	130.372	0.147	5.0	0.2103	0.0000	OK
720 minute winter	S26	705	130.372	0.202	5.7	0.2890	0.0000	OK
720 minute winter	S27	705	130.372	0.222	5.7	0.3176	0.0000	OK
720 minute winter	S28	375	131.053	0.027	2.0	0.0393	0.0000	OK
720 minute winter	S29	375	130.770	0.045	5.8	0.0643	0.0000	OK
720 minute winter	S30	375	130.504	0.054	5.8	0.0772	0.0000	OK
720 minute winter	S31	705	130.372	0.122	5.8	0.1748	0.0000	OK
720 minute winter	S32	690	130.374	0.223	5.8	0.3949	0.0000	OK
720 minute winter	S33	705	130.372	0.372	12.7	164.0462	0.0000	SURCHARGED
720 minute winter	S34	705	130.372	0.412	1.9	2.3599	0.0000	SURCHARGED
720 minute winter	H8205	375	129.517	0.067	17.0	0.0962	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	H6808	1.000	H7801	1.0	0.442	0.018	0.0519	
720 minute winter	H7801	1.001	H7907	3.2	1.072	0.034	0.0700	
720 minute winter	H7907	1.002	H7908	4.7	1.478	0.037	0.1751	
720 minute winter	H7908	1.003	H7905	5.4	1.586	0.040	0.0469	
720 minute winter	H7905	1.004	H7906	6.2	1.623	0.046	0.0850	
720 minute winter	H7906	1.005	H8001	7.3	1.547	0.056	0.2320	
720 minute winter	H8001	1.006	H8002	9.0	1.673	0.082	0.2583	
720 minute winter	H8002	1.007	H8105	10.5	1.220	0.060	0.3901	
720 minute winter	H8105	1.008	H8103	11.0	1.153	0.081	0.3306	
720 minute winter	H8103	1.009	H8104	11.0	1.078	0.038	0.1664	
720 minute winter	H8104	1.010	H8207	12.7	1.067	0.060	0.9560	
720 minute winter	H8207	1.011	H8206	13.9	1.153	0.058	0.3566	
720 minute winter	H8206	1.012	H8205	14.8	1.151	0.061	0.2733	
720 minute winter	S21	2.000	S22	2.3	0.601	0.038	0.1579	
720 minute winter	S22	2.001	S23	2.9	0.641	0.064	0.1031	
720 minute winter	S23	2.002	S24	3.5	0.760	0.029	0.1610	
720 minute winter	S24	2.003	S25	3.8	0.847	0.028	0.2355	
720 minute winter	S25	2.004	S26	5.0	0.512	0.042	0.7889	
720 minute winter	S26	2.005	S27	5.7	0.677	0.044	0.3115	
720 minute winter	S27	2.006	S33	5.7	0.606	0.011	3.4479	
720 minute winter	S28	3.000	S29	2.0	0.416	0.017	0.1374	
720 minute winter	S29	3.001	S30	5.8	0.899	0.046	0.1015	
720 minute winter	S30	3.002	S31	5.8	0.629	0.044	0.7558	
720 minute winter	S31	3.003	S32	5.8	0.733	0.039	0.8927	
720 minute winter	S32	3.004	S33	7.1	0.642	0.012	2.8174	
720 minute winter	S33	2.007	S34	1.9	0.238	0.049	0.2706	
720 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
720 minute winter	H8205	1.013	H8204	17.0	1.372	0.064	0.2148	

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Results for 2 year 720 minute winter. 3600 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
720 minute winter	H8204	375	129.210	0.060	17.0	0.0861	0.0000	OK
720 minute winter	S7202	375	130.078	0.078	28.1	0.1117	0.0000	OK
720 minute winter	S8208	375	129.491	0.061	28.1	0.0869	0.0000	OK
720 minute winter	S8201	375	128.895	0.085	46.5	0.1210	0.0000	OK
720 minute winter	S8203	375	128.100	0.080	46.4	0.1142	0.0000	OK
720 minute winter	S7324	375	127.876	0.076	46.4	0.0000	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	H8204	1.014	S8201	17.0	1.182	0.057	0.2309	
720 minute winter	S7202	4.000	S8208	28.1	1.820	0.059	0.4038	
720 minute winter	S8208	4.001	S8201	28.1	1.701	0.040	0.2203	
720 minute winter	S8201	1.015	S8203	46.4	2.352	0.071	0.3827	
720 minute winter	S8203	1.016	S7324	46.4	1.275	0.063	0.6213	1044.0

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Results for 2 year 960 minute summer. 3840 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	H6808	540	145.008	0.021	1.0	0.0301	0.0000	OK
960 minute summer	H7801	555	144.769	0.028	3.1	0.0400	0.0000	OK
960 minute summer	H7907	540	143.997	0.029	4.6	0.0420	0.0000	OK
960 minute summer	H7908	525	140.817	0.031	5.3	0.0438	0.0000	OK
960 minute summer	H7905	540	139.902	0.032	6.1	0.0465	0.0000	OK
960 minute summer	H7906	540	138.420	0.036	7.2	0.0512	0.0000	OK
960 minute summer	H8001	540	135.387	0.044	8.9	0.0623	0.0000	OK
960 minute summer	H8002	495	133.177	0.050	10.6	0.0709	0.0000	OK
960 minute summer	H8105	495	132.061	0.059	11.3	0.0851	0.0000	OK
960 minute summer	H8103	495	131.466	0.050	11.3	0.0717	0.0000	OK
960 minute summer	H8104	495	131.140	0.064	13.6	0.0922	0.0000	OK
960 minute summer	H8207	495	130.248	0.064	15.2	0.0921	0.0000	OK
960 minute summer	H8206	495	129.827	0.067	16.3	0.0957	0.0000	OK
960 minute summer	S21	495	132.034	0.033	2.9	0.0479	0.0000	OK
960 minute summer	S22	495	131.493	0.043	3.6	0.0621	0.0000	OK
960 minute summer	S23	495	131.239	0.039	4.3	0.0562	0.0000	OK
960 minute summer	S24	495	130.839	0.038	4.7	0.0551	0.0000	OK
960 minute summer	S25	915	130.369	0.144	6.1	0.2055	0.0000	OK
960 minute summer	S26	915	130.369	0.199	7.0	0.2842	0.0000	OK
960 minute summer	S27	915	130.369	0.219	7.0	0.3128	0.0000	OK
960 minute summer	S28	495	131.055	0.030	2.4	0.0428	0.0000	OK
960 minute summer	S29	495	130.775	0.050	7.1	0.0712	0.0000	OK
960 minute summer	S30	495	130.510	0.059	7.1	0.0851	0.0000	OK
960 minute summer	S31	915	130.369	0.119	7.1	0.1699	0.0000	OK
960 minute summer	S32	900	130.369	0.219	7.8	0.3873	0.0000	OK
960 minute summer	S33	915	130.369	0.369	15.1	162.3968	0.0000	SURCHARGED
960 minute summer	S34	915	130.369	0.409	1.9	2.3394	0.0000	SURCHARGED
960 minute summer	H8205	495	129.521	0.070	18.6	0.1009	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	H6808	1.000	H7801	1.0	0.431	0.018	0.0511	
960 minute summer	H7801	1.001	H7907	3.1	1.066	0.033	0.0686	
960 minute summer	H7907	1.002	H7908	4.6	1.467	0.037	0.1724	
960 minute summer	H7908	1.003	H7905	5.3	1.570	0.039	0.0463	
960 minute summer	H7905	1.004	H7906	6.1	1.612	0.045	0.0841	
960 minute summer	H7906	1.005	H8001	7.2	1.532	0.055	0.2299	
960 minute summer	H8001	1.006	H8002	8.9	1.668	0.081	0.2562	
960 minute summer	H8002	1.007	H8105	10.5	1.217	0.060	0.3955	
960 minute summer	H8105	1.008	H8103	11.3	1.163	0.084	0.3376	
960 minute summer	H8103	1.009	H8104	11.3	1.077	0.039	0.1728	
960 minute summer	H8104	1.010	H8207	13.6	1.083	0.065	1.0117	
960 minute summer	H8207	1.011	H8206	15.2	1.177	0.063	0.3813	
960 minute summer	H8206	1.012	H8205	16.3	1.181	0.067	0.2930	
960 minute summer	S21	2.000	S22	2.9	0.647	0.048	0.1849	
960 minute summer	S22	2.001	S23	3.6	0.683	0.079	0.1202	
960 minute summer	S23	2.002	S24	4.3	0.806	0.036	0.1864	
960 minute summer	S24	2.003	S25	4.7	0.902	0.035	0.2222	
960 minute summer	S25	2.004	S26	6.1	0.538	0.052	0.7695	
960 minute summer	S26	2.005	S27	7.0	0.718	0.055	0.3054	
960 minute summer	S27	2.006	S33	6.8	0.597	0.013	3.3993	
960 minute summer	S28	3.000	S29	2.4	0.435	0.021	0.1583	
960 minute summer	S29	3.001	S30	7.1	0.952	0.057	0.1173	
960 minute summer	S30	3.002	S31	7.1	0.663	0.054	0.7291	
960 minute summer	S31	3.003	S32	7.1	0.778	0.048	0.8700	
960 minute summer	S32	3.004	S33	8.4	0.643	0.014	2.7745	
960 minute summer	S33	2.007	S34	1.9	0.214	0.048	0.2706	
960 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
960 minute summer	H8205	1.013	H8204	18.6	1.409	0.071	0.2298	

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Results for 2 year 960 minute summer. 3840 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	H8204	495	129.213	0.063	18.6	0.0900	0.0000	OK
960 minute summer	S7202	495	130.086	0.086	34.3	0.1234	0.0000	OK
960 minute summer	S8208	495	129.497	0.067	34.3	0.0957	0.0000	OK
960 minute summer	S8201	495	128.902	0.092	54.6	0.1316	0.0000	OK
960 minute summer	S8203	495	128.107	0.087	54.6	0.1240	0.0000	OK
960 minute summer	S7324	495	127.882	0.082	54.6	0.0000	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	H8204	1.014	S8201	18.6	1.179	0.062	0.2548	
960 minute summer	S7202	4.000	S8208	34.3	1.923	0.071	0.4660	
960 minute summer	S8208	4.001	S8201	34.3	1.825	0.049	0.2504	
960 minute summer	S8201	1.015	S8203	54.6	2.453	0.083	0.4314	
960 minute summer	S8203	1.016	S7324	54.6	1.333	0.074	0.6982	1109.9

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Results for 2 year 960 minute winter. 3840 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 winter	H6808	525	145.007	0.020	0.9	0.0287	0.0000	OK
960 minute winter	H7801	570	144.768	0.027	2.8	0.0381	0.0000	OK
960 minute winter	H7907	540	143.996	0.028	4.1	0.0398	0.0000	OK
960 minute winter	H7908	540	140.815	0.029	4.7	0.0414	0.0000	OK
960 minute winter	H7905	540	139.900	0.031	5.4	0.0439	0.0000	OK
960 minute winter	H7906	525	138.418	0.034	6.4	0.0484	0.0000	OK
960 minute winter	H8001	540	135.384	0.041	7.8	0.0584	0.0000	OK
960 minute winter	H8002	540	133.173	0.046	9.1	0.0660	0.0000	OK
960 minute winter	H8105	540	132.056	0.055	9.6	0.0784	0.0000	OK
960 minute winter	H8103	540	131.462	0.046	9.6	0.0663	0.0000	OK
960 minute winter	H8104	525	131.133	0.058	11.0	0.0832	0.0000	OK
960 minute winter	H8207	525	130.241	0.057	12.0	0.0820	0.0000	OK
960 minute winter	H8206	525	129.819	0.059	12.7	0.0842	0.0000	OK
960 minute winter	S21	495	132.027	0.027	1.9	0.0391	0.0000	OK
960 minute winter	S22	495	131.486	0.035	2.4	0.0508	0.0000	OK
960 minute winter	S23	495	131.233	0.033	2.9	0.0466	0.0000	OK
960 minute winter	S24	495	130.832	0.032	3.2	0.0458	0.0000	OK
960 minute winter	S25	930	130.373	0.147	4.1	0.2111	0.0000	OK
960 minute winter	S26	930	130.372	0.202	4.7	0.2897	0.0000	OK
960 minute winter	S27	930	130.372	0.222	4.7	0.3183	0.0000	OK
960 minute winter	S28	495	131.050	0.025	1.6	0.0354	0.0000	OK
960 minute winter	S29	495	130.766	0.040	4.7	0.0579	0.0000	OK
960 minute winter	S30	495	130.499	0.049	4.7	0.0698	0.0000	OK
960 minute winter	S31	930	130.373	0.123	4.7	0.1759	0.0000	OK
960 minute winter	S32	885	130.374	0.224	9.6	0.3952	0.0000	OK
960 minute winter	S33	930	130.373	0.372	12.0	164.2837	0.0000	SURCHARGED
960 minute winter	S34	915	130.373	0.413	1.9	2.3627	0.0000	SURCHARGED
960 minute winter	H8205	525	129.513	0.063	14.7	0.0896	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	H6808	1.000	H7801	0.9	0.428	0.016	0.0476	
960 minute winter	H7801	1.001	H7907	2.8	1.037	0.030	0.0637	
960 minute winter	H7907	1.002	H7908	4.1	1.420	0.033	0.1589	
960 minute winter	H7908	1.003	H7905	4.7	1.518	0.035	0.0426	
960 minute winter	H7905	1.004	H7906	5.4	1.560	0.040	0.0773	
960 minute winter	H7906	1.005	H8001	6.4	1.486	0.049	0.2103	
960 minute winter	H8001	1.006	H8002	7.8	1.604	0.071	0.2336	
960 minute winter	H8002	1.007	H8105	9.1	1.167	0.052	0.3535	
960 minute winter	H8105	1.008	H8103	9.6	1.108	0.071	0.3004	
960 minute winter	H8103	1.009	H8104	9.6	1.039	0.033	0.1509	
960 minute winter	H8104	1.010	H8207	11.0	1.026	0.052	0.8624	
960 minute winter	H8207	1.011	H8206	12.0	1.110	0.050	0.3194	
960 minute winter	H8206	1.012	H8205	12.7	1.099	0.052	0.2453	
960 minute winter	S21	2.000	S22	1.9	0.567	0.032	0.1380	
960 minute winter	S22	2.001	S23	2.4	0.607	0.053	0.0900	
960 minute winter	S23	2.002	S24	2.9	0.716	0.024	0.1416	
960 minute winter	S24	2.003	S25	3.2	0.804	0.024	0.2385	
960 minute winter	S25	2.004	S26	4.1	0.476	0.035	0.7919	
960 minute winter	S26	2.005	S27	4.7	0.629	0.037	0.3123	
960 minute winter	S27	2.006	S33	4.6	0.559	0.009	3.4548	
960 minute winter	S28	3.000	S29	1.6	0.389	0.014	0.1180	
960 minute winter	S29	3.001	S30	4.7	0.847	0.037	0.0874	
960 minute winter	S30	3.002	S31	4.7	0.592	0.036	0.7627	
960 minute winter	S31	3.003	S32	5.2	0.681	0.035	0.8935	
960 minute winter	S32	3.004	S33	8.4	0.595	0.014	2.8182	
960 minute winter	S33	2.007	S34	1.9	0.218	0.048	0.2706	
960 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
960 minute winter	H8205	1.013	H8204	14.7	1.320	0.056	0.1942	

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Results for 2 year 960 minute winter. 3840 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 winter	H8204	525	129.206	0.056	14.7	0.0804	0.0000	OK
960 minute winter	S7202	495	130.070	0.070	22.8	0.1004	0.0000	OK
960 minute winter	S8208	495	129.485	0.055	22.8	0.0787	0.0000	OK
960 minute winter	S8201	495	128.887	0.077	38.5	0.1100	0.0000	OK
960 minute winter	S8203	495	128.092	0.072	38.5	0.1036	0.0000	OK
960 minute winter	S7324	495	127.869	0.069	38.5	0.0000	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	H8204	1.014	S8201	14.7	1.146	0.050	0.2038	
960 minute winter	S7202	4.000	S8208	22.8	1.713	0.048	0.3474	
960 minute winter	S8208	4.001	S8201	22.8	1.588	0.032	0.1913	
960 minute winter	S8201	1.015	S8203	38.5	2.239	0.059	0.3330	
960 minute winter	S8203	1.016	S7324	38.5	1.211	0.052	0.5419	1124.1

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Results for 2 year 1440 minute summer. 4320 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	H6808	780	145.007	0.020	0.9	0.0287	0.0000	OK
1440 minute summer	H7801	780	144.767	0.026	2.7	0.0373	0.0000	OK
1440 minute summer	H7907	780	143.996	0.027	4.0	0.0393	0.0000	OK
1440 minute summer	H7908	780	140.815	0.029	4.6	0.0409	0.0000	OK
1440 minute summer	H7905	780	139.899	0.030	5.3	0.0434	0.0000	OK
1440 minute summer	H7906	780	138.418	0.034	6.3	0.0480	0.0000	OK
1440 minute summer	H8001	780	135.384	0.040	7.7	0.0579	0.0000	OK
1440 minute summer	H8002	780	133.173	0.046	9.0	0.0656	0.0000	OK
1440 minute summer	H8105	780	132.055	0.054	9.5	0.0778	0.0000	OK
1440 minute summer	H8103	780	131.462	0.046	9.5	0.0658	0.0000	OK
1440 minute summer	H8104	780	131.133	0.058	10.9	0.0828	0.0000	OK
1440 minute summer	H8207	750	130.241	0.057	11.9	0.0816	0.0000	OK
1440 minute summer	H8206	750	129.819	0.059	12.7	0.0841	0.0000	OK
1440 minute summer	S21	750	132.029	0.029	2.1	0.0410	0.0000	OK
1440 minute summer	S22	750	131.487	0.037	2.6	0.0528	0.0000	OK
1440 minute summer	S23	750	131.234	0.034	3.1	0.0481	0.0000	OK
1440 minute summer	S24	750	130.833	0.033	3.4	0.0472	0.0000	OK
1440 minute summer	S25	1200	130.365	0.140	4.4	0.1996	0.0000	OK
1440 minute summer	S26	1200	130.365	0.194	5.1	0.2783	0.0000	OK
1440 minute summer	S27	1200	130.365	0.214	5.1	0.3069	0.0000	OK
1440 minute summer	S28	750	131.050	0.025	1.7	0.0364	0.0000	OK
1440 minute summer	S29	750	130.767	0.042	5.1	0.0603	0.0000	OK
1440 minute summer	S30	750	130.501	0.051	5.1	0.0726	0.0000	OK
1440 minute summer	S31	1200	130.365	0.115	5.1	0.1641	0.0000	OK
1440 minute summer	S32	1230	130.364	0.214	5.1	0.3786	0.0000	OK
1440 minute summer	S33	1200	130.365	0.365	12.0	160.4261	0.0000	SURCHARGED
1440 minute summer	S34	1200	130.364	0.404	1.7	2.3159	0.0000	SURCHARGED
1440 minute summer	H8205	750	129.513	0.063	14.8	0.0898	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	H6808	1.000	H7801	0.9	0.422	0.016	0.0468	
1440 minute summer	H7801	1.001	H7907	2.7	1.016	0.028	0.0623	
1440 minute summer	H7907	1.002	H7908	4.0	1.408	0.032	0.1562	
1440 minute summer	H7908	1.003	H7905	4.6	1.506	0.034	0.0419	
1440 minute summer	H7905	1.004	H7906	5.3	1.540	0.039	0.0763	
1440 minute summer	H7906	1.005	H8001	6.3	1.478	0.048	0.2080	
1440 minute summer	H8001	1.006	H8002	7.7	1.597	0.070	0.2310	
1440 minute summer	H8002	1.007	H8105	9.0	1.163	0.051	0.3500	
1440 minute summer	H8105	1.008	H8103	9.5	1.104	0.070	0.2974	
1440 minute summer	H8103	1.009	H8104	9.5	1.030	0.033	0.1497	
1440 minute summer	H8104	1.010	H8207	10.9	1.022	0.052	0.8559	
1440 minute summer	H8207	1.011	H8206	11.9	1.107	0.050	0.3181	
1440 minute summer	H8206	1.012	H8205	12.7	1.097	0.052	0.2456	
1440 minute summer	S21	2.000	S22	2.1	0.590	0.035	0.1469	
1440 minute summer	S22	2.001	S23	2.6	0.621	0.057	0.0954	
1440 minute summer	S23	2.002	S24	3.1	0.731	0.026	0.1482	
1440 minute summer	S24	2.003	S25	3.4	0.819	0.025	0.2045	
1440 minute summer	S25	2.004	S26	4.4	0.490	0.037	0.7458	
1440 minute summer	S26	2.005	S27	5.1	0.645	0.040	0.2980	
1440 minute summer	S27	2.006	S33	4.9	0.479	0.009	3.3406	
1440 minute summer	S28	3.000	S29	1.7	0.392	0.015	0.1244	
1440 minute summer	S29	3.001	S30	5.1	0.866	0.041	0.0926	
1440 minute summer	S30	3.002	S31	5.1	0.607	0.039	0.6948	
1440 minute summer	S31	3.003	S32	5.1	0.680	0.034	0.8418	
1440 minute summer	S32	3.004	S33	6.4	0.548	0.011	2.7214	
1440 minute summer	S33	2.007	S34	1.7	0.177	0.044	0.2706	
1440 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
1440 minute summer	H8205	1.013	H8204	14.8	1.322	0.056	0.1949	

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Results for 2 year 1440 minute summer. 4320 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	H8204	750	129.206	0.056	14.8	0.0806	0.0000	OK
1440 minute summer	S7202	750	130.073	0.073	24.8	0.1048	0.0000	OK
1440 minute summer	S8208	750	129.487	0.057	24.8	0.0819	0.0000	OK
1440 minute summer	S8201	750	128.889	0.079	40.8	0.1134	0.0000	OK
1440 minute summer	S8203	750	128.095	0.075	40.8	0.1068	0.0000	OK
1440 minute summer	S7324	750	127.871	0.071	40.8	0.0000	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	H8204	1.014	S8201	14.8	1.143	0.050	0.2102	
1440 minute summer	S7202	4.000	S8208	24.8	1.755	0.052	0.3691	
1440 minute summer	S8208	4.001	S8201	24.8	1.662	0.035	0.2009	
1440 minute summer	S8201	1.015	S8203	40.8	2.274	0.062	0.3478	
1440 minute summer	S8203	1.016	S7324	40.8	1.230	0.056	0.5656	1227.3

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Results for 2 year 1440 minute winter. 4320 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 winter	H6808	780	145.005	0.018	0.7	0.0255	0.0000	OK
1440 minute winter	H7801	840	144.765	0.024	2.2	0.0339	0.0000	OK
1440 minute winter	H7907	780	143.993	0.025	3.3	0.0360	0.0000	OK
1440 minute winter	H7908	780	140.812	0.026	3.8	0.0373	0.0000	OK
1440 minute winter	H7905	780	139.897	0.028	4.4	0.0398	0.0000	OK
1440 minute winter	H7906	780	138.415	0.031	5.2	0.0438	0.0000	OK
1440 minute winter	H8001	780	135.380	0.037	6.4	0.0529	0.0000	OK
1440 minute winter	H8002	780	133.169	0.042	7.4	0.0597	0.0000	OK
1440 minute winter	H8105	780	132.050	0.049	7.8	0.0706	0.0000	OK
1440 minute winter	H8103	780	131.458	0.042	7.8	0.0601	0.0000	OK
1440 minute winter	H8104	780	131.127	0.052	8.9	0.0750	0.0000	OK
1440 minute winter	H8207	780	130.236	0.052	9.7	0.0738	0.0000	OK
1440 minute winter	H8206	780	129.813	0.053	10.2	0.0752	0.0000	OK
1440 minute winter	S21	750	132.024	0.024	1.4	0.0339	0.0000	OK
1440 minute winter	S22	750	131.481	0.031	1.8	0.0441	0.0000	OK
1440 minute winter	S23	750	131.229	0.029	2.2	0.0408	0.0000	OK
1440 minute winter	S24	750	130.828	0.028	2.4	0.0399	0.0000	OK
1440 minute winter	S25	1230	130.365	0.140	3.1	0.2009	0.0000	OK
1440 minute winter	S26	1230	130.365	0.195	3.5	0.2796	0.0000	OK
1440 minute winter	S27	1230	130.365	0.215	3.5	0.3082	0.0000	OK
1440 minute winter	S28	750	131.047	0.022	1.2	0.0310	0.0000	OK
1440 minute winter	S29	750	130.760	0.035	3.5	0.0502	0.0000	OK
1440 minute winter	S30	750	130.492	0.042	3.5	0.0607	0.0000	OK
1440 minute winter	S31	1200	130.365	0.115	3.5	0.1652	0.0000	OK
1440 minute winter	S32	1260	130.366	0.215	6.9	0.3808	0.0000	OK
1440 minute winter	S33	1230	130.365	0.365	10.7	160.8413	0.0000	SURCHARGED
1440 minute winter	S34	1230	130.365	0.405	1.8	2.3207	0.0000	SURCHARGED
1440 minute winter	H8205	780	129.507	0.057	12.1	0.0811	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	H6808	1.000	H7801	0.7	0.392	0.013	0.0402	
1440 minute winter	H7801	1.001	H7907	2.2	0.962	0.023	0.0543	
1440 minute winter	H7907	1.002	H7908	3.3	1.331	0.026	0.1365	
1440 minute winter	H7908	1.003	H7905	3.8	1.420	0.028	0.0367	
1440 minute winter	H7905	1.004	H7906	4.4	1.461	0.033	0.0670	
1440 minute winter	H7906	1.005	H8001	5.2	1.395	0.040	0.1823	
1440 minute winter	H8001	1.006	H8002	6.4	1.514	0.058	0.2028	
1440 minute winter	H8002	1.007	H8105	7.4	1.101	0.042	0.3047	
1440 minute winter	H8105	1.008	H8103	7.8	1.043	0.058	0.2585	
1440 minute winter	H8103	1.009	H8104	7.8	0.973	0.027	0.1301	
1440 minute winter	H8104	1.010	H8207	8.9	0.963	0.042	0.7415	
1440 minute winter	H8207	1.011	H8206	9.7	1.047	0.040	0.2728	
1440 minute winter	H8206	1.012	H8205	10.2	1.026	0.042	0.2104	
1440 minute winter	S21	2.000	S22	1.4	0.515	0.023	0.1121	
1440 minute winter	S22	2.001	S23	1.8	0.558	0.040	0.0735	
1440 minute winter	S23	2.002	S24	2.2	0.662	0.018	0.1162	
1440 minute winter	S24	2.003	S25	2.4	0.739	0.018	0.2080	
1440 minute winter	S25	2.004	S26	3.1	0.434	0.026	0.7508	
1440 minute winter	S26	2.005	S27	3.5	0.568	0.027	0.2996	
1440 minute winter	S27	2.006	S33	3.4	0.444	0.006	3.3530	
1440 minute winter	S28	3.000	S29	1.2	0.358	0.010	0.0960	
1440 minute winter	S29	3.001	S30	3.5	0.776	0.028	0.0710	
1440 minute winter	S30	3.002	S31	3.5	0.542	0.027	0.7044	
1440 minute winter	S31	3.003	S32	3.7	0.618	0.025	0.8485	
1440 minute winter	S32	3.004	S33	7.8	0.525	0.013	2.7343	
1440 minute winter	S33	2.007	S34	1.8	0.168	0.046	0.2706	
1440 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
1440 minute winter	H8205	1.013	H8204	12.1	1.248	0.046	0.1686	

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Results for 2 year 1440 minute winter. 4320 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 winter	H8204	780	129.201	0.051	12.1	0.0732	0.0000	OK
1440 minute winter	S7202	750	130.060	0.060	16.7	0.0861	0.0000	OK
1440 minute winter	S8208	750	129.478	0.047	16.7	0.0679	0.0000	OK
1440 minute winter	S8201	750	128.877	0.067	29.4	0.0959	0.0000	OK
1440 minute winter	S8203	750	128.083	0.063	29.4	0.0903	0.0000	OK
1440 minute winter	S7324	750	127.861	0.061	29.4	0.0000	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	H8204	1.014	S8201	12.1	1.101	0.041	0.1708	
1440 minute winter	S7202	4.000	S8208	16.7	1.565	0.035	0.2784	
1440 minute winter	S8208	4.001	S8201	16.7	1.440	0.024	0.1557	
1440 minute winter	S8201	1.015	S8203	29.4	2.085	0.045	0.2730	
1440 minute winter	S8203	1.016	S7324	29.4	1.122	0.040	0.4463	1245.8

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Results for 30 year +40% CC 60 minute summer. 2940 minute analysis at 1 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
60 minute summer	H6808	33	145.047	0.060	8.6	0.0854	0.0000	OK
60 minute summer	H7801	33	144.819	0.078	24.5	0.1111	0.0000	OK
60 minute summer	H7907	33	144.068	0.100	51.5	0.1427	0.0000	OK
60 minute summer	H7908	33	140.902	0.116	63.5	0.1665	0.0000	OK
60 minute summer	H7905	33	139.994	0.125	75.2	0.1789	0.0000	OK
60 minute summer	H7906	33	138.520	0.136	89.8	0.1948	0.0000	OK
60 minute summer	H8001	33	135.539	0.196	113.1	0.2798	0.0000	OK
60 minute summer	H8002	34	133.346	0.219	137.8	0.3139	0.0000	OK
60 minute summer	H8105	34	132.524	0.523	150.8	0.7486	0.0000	SURCHARGED
60 minute summer	H8103	36	131.664	0.248	150.5	0.3549	0.0000	OK
60 minute summer	H8104	36	131.577	0.502	191.6	0.7177	0.0000	SURCHARGED
60 minute summer	H8207	36	130.902	0.718	213.5	1.0277	0.0000	SURCHARGED
60 minute summer	H8206	36	130.535	0.775	219.4	1.1086	0.0000	SURCHARGED
60 minute summer	S21	34	132.420	0.420	54.9	0.6009	0.0000	SURCHARGED
60 minute summer	S22	34	131.928	0.478	67.0	0.6837	0.0000	SURCHARGED
60 minute summer	S23	34	131.391	0.191	80.1	0.2734	0.0000	OK
60 minute summer	S24	34	130.983	0.183	87.4	0.2620	0.0000	OK
60 minute summer	S25	179	130.609	0.384	113.5	0.5490	0.0000	SURCHARGED
60 minute summer	S26	171	130.609	0.439	130.1	0.6277	0.0000	SURCHARGED
60 minute summer	S27	178	130.609	0.459	130.0	0.6564	0.0000	OK
60 minute summer	S28	33	131.161	0.136	45.8	0.1952	0.0000	OK
60 minute summer	S29	33	131.130	0.405	135.0	0.5797	0.0000	SURCHARGED
60 minute summer	S30	33	130.784	0.334	134.7	0.4778	0.0000	OK
60 minute summer	S31	180	130.609	0.359	134.4	0.5138	0.0000	OK
60 minute summer	S32	180	130.609	0.459	134.2	0.8106	0.0000	OK
60 minute summer	S33	178	130.609	0.609	280.6	285.5023	0.0000	SURCHARGED
60 minute summer	S34	178	130.609	0.649	4.8	3.7137	0.0000	SURCHARGED
60 minute summer	H8205	36	130.198	0.748	230.6	1.0702	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H6808	1.000	H7801	8.6	0.838	0.156	0.2251	
60 minute summer	H7801	1.001	H7907	24.5	1.685	0.258	0.3414	
60 minute summer	H7907	1.002	H7908	51.4	2.731	0.409	1.0373	
60 minute summer	H7908	1.003	H7905	63.5	2.929	0.470	0.2977	
60 minute summer	H7905	1.004	H7906	75.2	3.147	0.556	0.5309	
60 minute summer	H7906	1.005	H8001	89.7	2.859	0.687	1.5075	
60 minute summer	H8001	1.006	H8002	112.4	3.130	1.019	1.8361	
60 minute summer	H8002	1.007	H8105	136.6	2.176	0.777	2.8445	
60 minute summer	H8105	1.008	H8103	150.5	2.138	1.115	2.4096	
60 minute summer	H8103	1.009	H8104	151.7	1.869	0.522	1.5234	
60 minute summer	H8104	1.010	H8207	182.5	1.954	0.867	8.8835	
60 minute summer	H8207	1.011	H8206	197.8	1.974	0.824	3.2609	
60 minute summer	H8206	1.012	H8205	215.8	2.041	0.892	2.3452	
60 minute summer	S21	2.000	S22	53.1	1.336	0.881	1.6311	
60 minute summer	S22	2.001	S23	66.8	1.681	1.469	0.8886	
60 minute summer	S23	2.002	S24	80.4	1.741	0.676	1.6141	
60 minute summer	S24	2.003	S25	87.7	1.608	0.647	1.8222	
60 minute summer	S25	2.004	S26	113.6	1.171	0.964	1.7319	
60 minute summer	S26	2.005	S27	130.0	1.611	1.016	0.5352	
60 minute summer	S27	2.006	S33	129.6	1.387	0.242	6.3563	
60 minute summer	S28	3.000	S29	45.4	0.834	0.396	1.4280	
60 minute summer	S29	3.001	S30	134.7	1.914	1.074	1.0852	
60 minute summer	S30	3.002	S31	134.4	1.377	1.018	4.4285	
60 minute summer	S31	3.003	S32	134.2	1.679	0.902	1.9710	
60 minute summer	S32	3.004	S33	134.1	1.462	0.226	5.1821	
60 minute summer	S33	2.007	S34	4.8	0.556	0.121	0.2706	
60 minute summer	S34	2.008	H8205	-6.1	0.488	-0.153	0.7362	
60 minute summer	H8205	1.013	H8204	226.4	2.201	0.859	1.9159	

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Results for 30 year +40% CC 60 minute summer. 2940 minute analysis at 1 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
60 minute summer	H8204	36	129.866	0.716	226.4	1.0251	0.0000	SURCHARGED
60 minute summer	S7202	39	130.505	0.505	404.1	0.7228	0.0000	SURCHARGED
60 minute summer	S8208	37	129.933	0.503	411.2	0.7199	0.0000	SURCHARGED
60 minute summer	S8201	37	129.579	0.769	629.9	1.1010	0.0000	SURCHARGED
60 minute summer	S8203	37	128.404	0.384	630.2	0.5498	0.0000	OK
60 minute summer	S7324	37	128.113	0.313	630.5	0.0000	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	H8204	1.014	S8201	225.2	2.042	0.756	1.7007	
60 minute summer	S7202	4.000	S8208	411.2	3.143	0.857	4.1206	
60 minute summer	S8208	4.001	S8201	413.2	3.240	0.588	2.0946	
60 minute summer	S8201	1.015	S8203	630.2	4.002	0.962	2.9313	
60 minute summer	S8203	1.016	S7324	630.5	2.394	0.858	4.4640	1437.1

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Results for 30 year +40% CC 60 minute winter. 2940 minute analysis at 1 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
60 minute winter	H6808	33	145.038	0.051	6.3	0.0731	0.0000	OK
60 minute winter	H7801	33	144.807	0.066	17.9	0.0944	0.0000	OK
60 minute winter	H7907	33	144.052	0.084	37.5	0.1200	0.0000	OK
60 minute winter	H7908	33	140.882	0.096	46.2	0.1369	0.0000	OK
60 minute winter	H7905	33	139.972	0.103	54.7	0.1468	0.0000	OK
60 minute winter	H7906	33	138.496	0.112	65.3	0.1600	0.0000	OK
60 minute winter	H8001	33	135.493	0.150	82.2	0.2151	0.0000	OK
60 minute winter	H8002	33	133.288	0.161	100.4	0.2299	0.0000	OK
60 minute winter	H8105	34	132.224	0.223	110.9	0.3195	0.0000	OK
60 minute winter	H8103	34	131.595	0.179	110.9	0.2555	0.0000	OK
60 minute winter	H8104	34	131.303	0.228	142.0	0.3268	0.0000	OK
60 minute winter	H8207	34	130.434	0.249	164.1	0.3570	0.0000	OK
60 minute winter	H8206	34	130.037	0.277	179.5	0.3967	0.0000	OK
60 minute winter	S21	33	132.132	0.132	39.7	0.1890	0.0000	OK
60 minute winter	S22	33	131.700	0.250	49.8	0.3573	0.0000	SURCHARGED
60 minute winter	S23	33	131.357	0.157	59.5	0.2247	0.0000	OK
60 minute winter	S24	34	130.949	0.149	64.8	0.2139	0.0000	OK
60 minute winter	S25	166	130.603	0.378	84.2	0.5405	0.0000	SURCHARGED
60 minute winter	S26	163	130.603	0.433	96.5	0.6193	0.0000	SURCHARGED
60 minute winter	S27	162	130.603	0.453	96.3	0.6478	0.0000	OK
60 minute winter	S28	33	131.134	0.109	33.1	0.1562	0.0000	OK
60 minute winter	S29	33	130.952	0.227	97.8	0.3242	0.0000	OK
60 minute winter	S30	33	130.701	0.251	97.8	0.3595	0.0000	OK
60 minute winter	S31	167	130.603	0.353	97.8	0.5050	0.0000	OK
60 minute winter	S32	167	130.603	0.453	97.6	0.8000	0.0000	OK
60 minute winter	S33	165	130.603	0.603	205.1	282.2822	0.0000	SURCHARGED
60 minute winter	S34	165	130.603	0.643	4.1	3.6797	0.0000	SURCHARGED
60 minute winter	H8205	34	129.730	0.280	191.8	0.4012	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	H6808	1.000	H7801	6.3	0.769	0.114	0.1802	
60 minute winter	H7801	1.001	H7907	17.9	1.550	0.189	0.2716	
60 minute winter	H7907	1.002	H7908	37.5	2.540	0.298	0.8134	
60 minute winter	H7908	1.003	H7905	46.2	2.742	0.342	0.2313	
60 minute winter	H7905	1.004	H7906	54.7	2.932	0.404	0.4145	
60 minute winter	H7906	1.005	H8001	65.2	2.718	0.500	1.1684	
60 minute winter	H8001	1.006	H8002	82.0	2.988	0.744	1.3188	
60 minute winter	H8002	1.007	H8105	100.2	2.110	0.570	2.1423	
60 minute winter	H8105	1.008	H8103	110.9	2.066	0.822	1.8599	
60 minute winter	H8103	1.009	H8104	110.9	1.819	0.382	0.9903	
60 minute winter	H8104	1.010	H8207	142.1	1.919	0.675	5.9649	
60 minute winter	H8207	1.011	H8206	164.0	1.986	0.684	2.4422	
60 minute winter	H8206	1.012	H8205	179.5	2.045	0.742	1.8684	
60 minute winter	S21	2.000	S22	39.7	1.208	0.659	1.3123	
60 minute winter	S22	2.001	S23	49.4	1.269	1.086	0.8511	
60 minute winter	S23	2.002	S24	59.5	1.645	0.500	1.2635	
60 minute winter	S24	2.003	S25	64.9	1.603	0.479	1.3626	
60 minute winter	S25	2.004	S26	84.2	1.081	0.715	1.7316	
60 minute winter	S26	2.005	S27	96.3	1.512	0.753	0.5352	
60 minute winter	S27	2.006	S33	95.2	1.449	0.178	6.3164	
60 minute winter	S28	3.000	S29	33.1	0.817	0.288	1.1278	
60 minute winter	S29	3.001	S30	97.8	1.842	0.780	0.8341	
60 minute winter	S30	3.002	S31	97.8	1.306	0.741	3.4193	
60 minute winter	S31	3.003	S32	97.6	1.583	0.656	1.9619	
60 minute winter	S32	3.004	S33	97.1	1.532	0.164	5.1496	
60 minute winter	S33	2.007	S34	4.1	0.580	0.104	0.2706	
60 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
60 minute winter	H8205	1.013	H8204	191.7	2.197	0.728	1.5189	

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Results for 30 year +40% CC 60 minute winter. 2940 minute analysis at 1 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
60 minute winter	H8204	38	129.446	0.296	191.7	0.4231	0.0000	OK
60 minute winter	S7202	40	130.352	0.352	379.2	0.5038	0.0000	OK
60 minute winter	S8208	39	129.742	0.312	379.0	0.4467	0.0000	OK
60 minute winter	S8201	39	129.319	0.509	563.7	0.7284	0.0000	SURCHARGED
60 minute winter	S8203	36	128.367	0.347	561.1	0.4962	0.0000	OK
60 minute winter	S7324	37	128.088	0.288	561.3	0.0000	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	H8204	1.014	S8201	191.7	1.851	0.644	1.5690	
60 minute winter	S7202	4.000	S8208	379.0	3.125	0.790	3.2507	
60 minute winter	S8208	4.001	S8201	380.3	3.117	0.541	1.8231	
60 minute winter	S8201	1.015	S8203	561.1	3.923	0.857	2.8012	
60 minute winter	S8203	1.016	S7324	561.3	2.358	0.764	4.0589	1407.2

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Results for 30 year +40% CC 120 minute summer. 3000 minute analysis at 2 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	H6808	64	145.037	0.050	6.0	0.0713	0.0000	OK
120 minute summer	H7801	64	144.806	0.065	17.3	0.0927	0.0000	OK
120 minute summer	H7907	64	144.049	0.081	35.3	0.1160	0.0000	OK
120 minute summer	H7908	64	140.878	0.092	43.2	0.1317	0.0000	OK
120 minute summer	H7905	64	139.967	0.098	51.0	0.1408	0.0000	OK
120 minute summer	H7906	64	138.491	0.107	60.9	0.1537	0.0000	OK
120 minute summer	H8001	64	135.486	0.143	76.6	0.2047	0.0000	OK
120 minute summer	H8002	64	133.281	0.154	93.4	0.2202	0.0000	OK
120 minute summer	H8105	64	132.211	0.210	103.0	0.3005	0.0000	OK
120 minute summer	H8103	64	131.586	0.170	102.7	0.2426	0.0000	OK
120 minute summer	H8104	64	131.292	0.216	131.1	0.3098	0.0000	OK
120 minute summer	H8207	64	130.418	0.234	150.9	0.3341	0.0000	OK
120 minute summer	H8206	64	130.017	0.257	164.4	0.3682	0.0000	OK
120 minute summer	S21	64	132.124	0.124	35.8	0.1771	0.0000	OK
120 minute summer	S22	64	131.650	0.200	44.9	0.2857	0.0000	OK
120 minute summer	S23	64	131.348	0.148	53.9	0.2115	0.0000	OK
120 minute summer	S24	64	130.940	0.140	58.6	0.1999	0.0000	OK
120 minute summer	S25	228	130.729	0.504	76.4	0.7217	0.0000	SURCHARGED
120 minute summer	S26	224	130.730	0.560	87.1	0.8007	0.0000	SURCHARGED
120 minute summer	S27	228	130.729	0.579	85.9	0.8292	0.0000	OK
120 minute summer	S28	64	131.128	0.103	29.8	0.1478	0.0000	OK
120 minute summer	S29	64	130.934	0.209	88.2	0.2991	0.0000	OK
120 minute summer	S30	224	130.729	0.279	88.2	0.3999	0.0000	OK
120 minute summer	S31	224	130.729	0.479	88.1	0.6860	0.0000	SURCHARGED
120 minute summer	S32	228	130.729	0.579	86.7	1.0237	0.0000	OK
120 minute summer	S33	226	130.729	0.729	176.5	352.8620	0.0000	SURCHARGED
120 minute summer	S34	226	130.729	0.769	3.5	4.4047	0.0000	SURCHARGED
120 minute summer	H8205	64	129.710	0.260	175.3	0.3723	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	H6808	1.000	H7801	6.0	0.754	0.109	0.1748	
120 minute summer	H7801	1.001	H7907	17.3	1.687	0.182	0.2617	
120 minute summer	H7907	1.002	H7908	35.2	2.505	0.280	0.7747	
120 minute summer	H7908	1.003	H7905	43.2	2.704	0.320	0.2193	
120 minute summer	H7905	1.004	H7906	51.0	2.883	0.377	0.3930	
120 minute summer	H7906	1.005	H8001	60.8	2.681	0.466	1.1057	
120 minute summer	H8001	1.006	H8002	76.5	2.947	0.694	1.2471	
120 minute summer	H8002	1.007	H8105	93.3	2.088	0.531	2.0165	
120 minute summer	H8105	1.008	H8103	102.7	2.039	0.761	1.7449	
120 minute summer	H8103	1.009	H8104	102.6	1.799	0.353	0.9274	
120 minute summer	H8104	1.010	H8207	130.7	1.894	0.621	5.5571	
120 minute summer	H8207	1.011	H8206	150.1	1.968	0.626	2.2578	
120 minute summer	H8206	1.012	H8205	163.9	2.024	0.678	1.7245	
120 minute summer	S21	2.000	S22	35.8	1.199	0.594	1.2228	
120 minute summer	S22	2.001	S23	44.8	1.262	0.984	0.8061	
120 minute summer	S23	2.002	S24	53.8	1.615	0.453	1.1652	
120 minute summer	S24	2.003	S25	58.7	1.600	0.433	1.4145	
120 minute summer	S25	2.004	S26	75.8	1.012	0.643	1.7319	
120 minute summer	S26	2.005	S27	85.9	1.425	0.671	0.5352	
120 minute summer	S27	2.006	S33	82.6	1.199	0.154	6.9465	
120 minute summer	S28	3.000	S29	29.8	0.805	0.260	1.0383	
120 minute summer	S29	3.001	S30	88.2	1.808	0.703	0.7670	
120 minute summer	S30	3.002	S31	88.1	1.258	0.667	4.5244	
120 minute summer	S31	3.003	S32	86.7	1.500	0.583	1.9859	
120 minute summer	S32	3.004	S33	81.9	1.268	0.138	5.6624	
120 minute summer	S33	2.007	S34	3.5	0.477	0.088	0.2706	
120 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0592	
120 minute summer	H8205	1.013	H8204	174.9	2.167	0.664	1.4080	

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Results for 30 year +40% CC 120 minute summer. 3000 minute analysis at 2 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute summer	H8204	64	129.407	0.257	174.9	0.3678	0.0000	OK
120 minute summer	S7202	70	130.324	0.324	342.6	0.4634	0.0000	OK
120 minute summer	S8208	70	129.698	0.268	342.4	0.3837	0.0000	OK
120 minute summer	S8201	66	129.189	0.379	519.1	0.5419	0.0000	OK
120 minute summer	S8203	66	128.346	0.326	518.5	0.4664	0.0000	OK
120 minute summer	S7324	66	128.073	0.273	518.0	0.0000	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	H8204	1.014	S8201	174.6	1.873	0.586	1.4645	
120 minute summer	S7202	4.000	S8208	342.4	3.100	0.714	2.8683	
120 minute summer	S8208	4.001	S8201	342.3	3.024	0.487	1.5811	
120 minute summer	S8201	1.015	S8203	518.5	3.897	0.792	2.5706	
120 minute summer	S8203	1.016	S7324	518.0	2.314	0.705	3.8099	1714.0

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Results for 30 year +40% CC 120 minute winter. 3000 minute analysis at 2 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	H6808	68	145.030	0.043	4.4	0.0612	0.0000	OK
120 minute winter	H7801	64	144.797	0.056	12.9	0.0798	0.0000	OK
120 minute winter	H7907	64	144.036	0.068	25.4	0.0978	0.0000	OK
120 minute winter	H7908	64	140.862	0.076	31.1	0.1092	0.0000	OK
120 minute winter	H7905	64	139.951	0.081	36.7	0.1166	0.0000	OK
120 minute winter	H7906	64	138.473	0.089	43.7	0.1277	0.0000	OK
120 minute winter	H8001	64	135.458	0.115	54.9	0.1647	0.0000	OK
120 minute winter	H8002	64	133.254	0.127	66.6	0.1814	0.0000	OK
120 minute winter	H8105	64	132.167	0.166	73.2	0.2370	0.0000	OK
120 minute winter	H8103	64	131.553	0.137	73.0	0.1954	0.0000	OK
120 minute winter	H8104	64	131.250	0.175	92.6	0.2503	0.0000	OK
120 minute winter	H8207	66	130.369	0.185	106.3	0.2643	0.0000	OK
120 minute winter	H8206	66	129.961	0.201	115.9	0.2873	0.0000	OK
120 minute winter	S21	64	132.099	0.099	24.6	0.1422	0.0000	OK
120 minute winter	S22	64	131.594	0.144	30.9	0.2057	0.0000	OK
120 minute winter	S23	64	131.319	0.119	37.2	0.1705	0.0000	OK
120 minute winter	S24	62	130.914	0.114	40.5	0.1624	0.0000	OK
120 minute winter	S25	218	130.724	0.499	52.8	0.7135	0.0000	SURCHARGED
120 minute winter	S26	220	130.724	0.554	60.0	0.7925	0.0000	SURCHARGED
120 minute winter	S27	214	130.724	0.574	59.2	0.8209	0.0000	OK
120 minute winter	S28	64	131.110	0.085	20.6	0.1220	0.0000	OK
120 minute winter	S29	64	130.887	0.162	60.8	0.2319	0.0000	OK
120 minute winter	S30	218	130.724	0.274	60.8	0.3918	0.0000	OK
120 minute winter	S31	218	130.724	0.474	60.8	0.6778	0.0000	SURCHARGED
120 minute winter	S32	218	130.724	0.574	60.5	1.0136	0.0000	OK
120 minute winter	S33	216	130.724	0.724	123.0	349.5879	0.0000	SURCHARGED
120 minute winter	S34	216	130.724	0.764	2.9	4.3719	0.0000	SURCHARGED
120 minute winter	H8205	66	129.653	0.203	124.2	0.2906	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	H6808	1.000	H7801	4.4	0.689	0.080	0.1412	
120 minute winter	H7801	1.001	H7907	12.9	1.611	0.136	0.2091	
120 minute winter	H7907	1.002	H7908	25.4	2.309	0.202	0.6063	
120 minute winter	H7908	1.003	H7905	31.1	2.505	0.230	0.1703	
120 minute winter	H7905	1.004	H7906	36.6	2.656	0.271	0.3067	
120 minute winter	H7906	1.005	H8001	43.7	2.493	0.335	0.8556	
120 minute winter	H8001	1.006	H8002	54.7	2.736	0.496	0.9610	
120 minute winter	H8002	1.007	H8105	66.5	1.953	0.379	1.5435	
120 minute winter	H8105	1.008	H8103	73.0	1.904	0.541	1.3300	
120 minute winter	H8103	1.009	H8104	73.0	1.690	0.251	0.7031	
120 minute winter	H8104	1.010	H8207	92.5	1.773	0.439	4.2016	
120 minute winter	H8207	1.011	H8206	106.3	1.864	0.443	1.6860	
120 minute winter	H8206	1.012	H8205	116.0	1.919	0.480	1.2855	
120 minute winter	S21	2.000	S22	24.6	1.126	0.408	0.8955	
120 minute winter	S22	2.001	S23	30.9	1.199	0.679	0.5871	
120 minute winter	S23	2.002	S24	37.2	1.483	0.313	0.8796	
120 minute winter	S24	2.003	S25	40.6	1.603	0.299	1.4277	
120 minute winter	S25	2.004	S26	52.2	0.928	0.443	1.7319	
120 minute winter	S26	2.005	S27	59.2	1.327	0.462	0.5352	
120 minute winter	S27	2.006	S33	56.8	1.221	0.106	6.9291	
120 minute winter	S28	3.000	S29	20.6	0.753	0.179	0.7770	
120 minute winter	S29	3.001	S30	60.8	1.672	0.485	0.5724	
120 minute winter	S30	3.002	S31	60.8	1.144	0.461	4.4817	
120 minute winter	S31	3.003	S32	60.5	1.407	0.406	1.9859	
120 minute winter	S32	3.004	S33	57.6	1.302	0.097	5.6486	
120 minute winter	S33	2.007	S34	2.9	0.492	0.073	0.2706	
120 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
120 minute winter	H8205	1.013	H8204	124.3	2.080	0.472	1.0396	

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Results for 30 year +40% CC 120 minute winter. 3000 minute analysis at 2 minute timestep. Mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	H8204	66	129.348	0.198	124.3	0.2826	0.0000	OK
120 minute winter	S7202	70	130.276	0.276	275.6	0.3956	0.0000	OK
120 minute winter	S8208	70	129.657	0.227	275.5	0.3250	0.0000	OK
120 minute winter	S8201	68	129.116	0.306	409.1	0.4373	0.0000	OK
120 minute winter	S8203	68	128.295	0.275	409.0	0.3940	0.0000	OK
120 minute winter	S7324	68	128.035	0.235	409.0	0.0000	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	H8204	1.014	S8201	124.3	1.804	0.417	1.1909	
120 minute winter	S7202	4.000	S8208	275.5	3.021	0.574	2.3702	
120 minute winter	S8208	4.001	S8201	275.4	2.865	0.392	1.2840	
120 minute winter	S8201	1.015	S8203	409.0	3.781	0.625	2.0951	
120 minute winter	S8203	1.016	S7324	409.0	2.205	0.556	3.1616	1685.9

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Results for 30 year +40% CC 180 minute summer. 3060 minute analysis at 4 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
180 minute summer	H6808	96	145.033	0.046	5.0	0.0652	0.0000	OK
180 minute summer	H7801	164	144.803	0.061	14.7	0.0880	0.0000	OK
180 minute summer	H7907	96	144.041	0.072	28.5	0.1037	0.0000	OK
180 minute summer	H7908	96	140.867	0.081	34.6	0.1160	0.0000	OK
180 minute summer	H7905	96	139.955	0.086	40.7	0.1237	0.0000	OK
180 minute summer	H7906	96	138.478	0.094	48.5	0.1352	0.0000	OK
180 minute summer	H8001	96	135.466	0.123	60.8	0.1757	0.0000	OK
180 minute summer	H8002	96	133.261	0.134	73.7	0.1921	0.0000	OK
180 minute summer	H8105	96	132.178	0.177	80.9	0.2531	0.0000	OK
180 minute summer	H8103	96	131.561	0.145	80.8	0.2080	0.0000	OK
180 minute summer	H8104	96	131.260	0.185	102.0	0.2652	0.0000	OK
180 minute summer	H8207	96	130.380	0.196	116.9	0.2809	0.0000	OK
180 minute summer	H8206	96	129.974	0.214	127.4	0.3060	0.0000	OK
180 minute summer	S21	96	132.104	0.104	26.7	0.1489	0.0000	OK
180 minute summer	S22	96	131.602	0.152	33.5	0.2179	0.0000	OK
180 minute summer	S23	96	131.325	0.125	40.3	0.1788	0.0000	OK
180 minute summer	S24	96	130.916	0.116	43.9	0.1664	0.0000	OK
180 minute summer	S25	268	130.804	0.579	57.1	0.8282	0.0000	SURCHARGED
180 minute summer	S26	284	130.809	0.639	63.9	0.9142	0.0000	SURCHARGED
180 minute summer	S27	280	130.809	0.659	62.8	0.9424	0.0000	SURCHARGED
180 minute summer	S28	96	131.114	0.089	22.3	0.1271	0.0000	OK
180 minute summer	S29	96	130.896	0.171	65.8	0.2440	0.0000	OK
180 minute summer	S30	268	130.804	0.354	65.8	0.5066	0.0000	OK
180 minute summer	S31	268	130.804	0.554	65.9	0.7922	0.0000	SURCHARGED
180 minute summer	S32	268	130.803	0.653	64.3	1.1545	0.0000	SURCHARGED
180 minute summer	S33	268	130.803	0.803	131.3	396.0131	0.0000	SURCHARGED
180 minute summer	S34	268	130.803	0.843	3.0	4.8281	0.0000	SURCHARGED
180 minute summer	H8205	96	129.666	0.216	136.2	0.3092	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	H6808	1.000	H7801	5.0	0.710	0.091	0.1554	
180 minute summer	H7801	1.001	H7907	14.7	1.709	0.155	0.2280	
180 minute summer	H7907	1.002	H7908	28.4	2.380	0.226	0.6581	
180 minute summer	H7908	1.003	H7905	34.6	2.573	0.256	0.1847	
180 minute summer	H7905	1.004	H7906	40.7	2.729	0.301	0.3315	
180 minute summer	H7906	1.005	H8001	48.4	2.555	0.371	0.9260	
180 minute summer	H8001	1.006	H8002	60.7	2.804	0.551	1.0410	
180 minute summer	H8002	1.007	H8105	73.7	1.999	0.419	1.6690	
180 minute summer	H8105	1.008	H8103	80.8	1.946	0.598	1.4386	
180 minute summer	H8103	1.009	H8104	80.7	1.725	0.278	0.7606	
180 minute summer	H8104	1.010	H8207	101.9	1.810	0.484	4.5353	
180 minute summer	H8207	1.011	H8206	116.8	1.895	0.487	1.8219	
180 minute summer	H8206	1.012	H8205	127.3	1.950	0.526	1.3885	
180 minute summer	S21	2.000	S22	26.7	1.151	0.443	0.9544	
180 minute summer	S22	2.001	S23	33.5	1.218	0.736	0.6263	
180 minute summer	S23	2.002	S24	40.3	1.522	0.339	0.9255	
180 minute summer	S24	2.003	S25	43.9	1.565	0.324	1.4585	
180 minute summer	S25	2.004	S26	55.5	0.882	0.471	1.7319	
180 minute summer	S26	2.005	S27	62.8	1.252	0.490	0.5352	
180 minute summer	S27	2.006	S33	60.1	1.089	0.112	6.9817	
180 minute summer	S28	3.000	S29	22.3	0.765	0.194	0.8260	
180 minute summer	S29	3.001	S30	65.8	1.701	0.525	0.6540	
180 minute summer	S30	3.002	S31	65.9	1.126	0.499	4.9750	
180 minute summer	S31	3.003	S32	64.3	1.331	0.433	1.9859	
180 minute summer	S32	3.004	S33	61.6	1.165	0.104	5.6919	
180 minute summer	S33	2.007	S34	3.0	0.429	0.075	0.2706	
180 minute summer	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
180 minute summer	H8205	1.013	H8204	136.2	2.100	0.517	1.1264	

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Results for 30 year +40% CC 180 minute summer. 3060 minute analysis at 4 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
180 minute summer	H8204	96	129.361	0.211	136.2	0.3025	0.0000	OK
180 minute summer	S7202	100	130.283	0.283	285.6	0.4055	0.0000	OK
180 minute summer	S8208	100	129.663	0.233	285.5	0.3334	0.0000	OK
180 minute summer	S8201	96	129.126	0.316	427.3	0.4527	0.0000	OK
180 minute summer	S8203	96	128.303	0.283	426.6	0.4055	0.0000	OK
180 minute summer	S7324	100	128.041	0.241	426.2	0.0000	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	H8204	1.014	S8201	136.0	1.806	0.457	1.2582	
180 minute summer	S7202	4.000	S8208	285.5	3.035	0.595	2.4440	
180 minute summer	S8208	4.001	S8201	285.2	2.875	0.406	1.3323	
180 minute summer	S8201	1.015	S8203	426.6	3.805	0.651	2.1720	
180 minute summer	S8203	1.016	S7324	426.2	2.225	0.580	3.2655	1899.0

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Results for 30 year +40% CC 180 minute winter. 3060 minute analysis at 4 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
180 minute winter	H6808	164	145.028	0.041	4.1	0.0592	0.0000	OK
180 minute winter	H7801	168	144.799	0.058	13.0	0.0824	0.0000	OK
180 minute winter	H7907	96	144.031	0.063	21.6	0.0898	0.0000	OK
180 minute winter	H7908	96	140.855	0.069	26.0	0.0991	0.0000	OK
180 minute winter	H7905	96	139.943	0.074	30.5	0.1054	0.0000	OK
180 minute winter	H7906	96	138.465	0.081	36.2	0.1153	0.0000	OK
180 minute winter	H8001	96	135.446	0.103	45.2	0.1468	0.0000	OK
180 minute winter	H8002	96	133.241	0.114	54.4	0.1624	0.0000	OK
180 minute winter	H8105	96	132.146	0.145	59.4	0.2080	0.0000	OK
180 minute winter	H8103	96	131.537	0.121	59.2	0.1726	0.0000	OK
180 minute winter	H8104	96	131.229	0.154	73.8	0.2201	0.0000	OK
180 minute winter	H8207	96	130.344	0.160	84.0	0.2289	0.0000	OK
180 minute winter	H8206	96	129.932	0.172	91.2	0.2465	0.0000	OK
180 minute winter	S21	96	132.085	0.085	18.4	0.1212	0.0000	OK
180 minute winter	S22	96	131.569	0.119	23.1	0.1701	0.0000	OK
180 minute winter	S23	96	131.302	0.102	27.8	0.1455	0.0000	OK
180 minute winter	S24	92	130.896	0.096	30.3	0.1373	0.0000	OK
180 minute winter	S25	276	130.797	0.572	39.4	0.8190	0.0000	SURCHARGED
180 minute winter	S26	272	130.803	0.633	44.1	0.9062	0.0000	SURCHARGED
180 minute winter	S27	284	130.802	0.652	43.2	0.9335	0.0000	SURCHARGED
180 minute winter	S28	96	131.098	0.073	15.3	0.1050	0.0000	OK
180 minute winter	S29	96	130.860	0.135	45.2	0.1931	0.0000	OK
180 minute winter	S30	248	130.798	0.348	45.2	0.4974	0.0000	OK
180 minute winter	S31	264	130.797	0.547	45.6	0.7831	0.0000	SURCHARGED
180 minute winter	S32	252	130.797	0.647	44.0	1.1435	0.0000	SURCHARGED
180 minute winter	S33	256	130.797	0.797	90.6	392.3945	0.0000	SURCHARGED
180 minute winter	S34	256	130.797	0.837	2.5	4.7931	0.0000	SURCHARGED
180 minute winter	H8205	96	129.624	0.174	97.7	0.2493	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	H6808	1.000	H7801	4.1	0.666	0.074	0.1424	
180 minute winter	H7801	1.001	H7907	13.0	1.647	0.137	0.1904	
180 minute winter	H7907	1.002	H7908	21.5	2.226	0.171	0.5337	
180 minute winter	H7908	1.003	H7905	26.0	2.402	0.192	0.1486	
180 minute winter	H7905	1.004	H7906	30.5	2.535	0.225	0.2672	
180 minute winter	H7906	1.005	H8001	36.1	2.383	0.277	0.7413	
180 minute winter	H8001	1.006	H8002	45.1	2.610	0.409	0.8308	
180 minute winter	H8002	1.007	H8105	54.4	1.869	0.309	1.3187	
180 minute winter	H8105	1.008	H8103	59.2	1.813	0.439	1.1327	
180 minute winter	H8103	1.009	H8104	59.2	1.627	0.204	0.5936	
180 minute winter	H8104	1.010	H8207	73.7	1.688	0.350	3.5167	
180 minute winter	H8207	1.011	H8206	83.9	1.781	0.350	1.3921	
180 minute winter	H8206	1.012	H8205	91.1	1.831	0.377	1.0577	
180 minute winter	S21	2.000	S22	18.4	1.057	0.305	0.7163	
180 minute winter	S22	2.001	S23	23.1	1.124	0.508	0.4683	
180 minute winter	S23	2.002	S24	27.8	1.381	0.234	0.7040	
180 minute winter	S24	2.003	S25	30.3	1.502	0.223	1.4286	
180 minute winter	S25	2.004	S26	38.3	0.818	0.325	1.7319	
180 minute winter	S26	2.005	S27	43.2	1.145	0.338	0.5352	
180 minute winter	S27	2.006	S33	41.5	1.092	0.078	6.9817	
180 minute winter	S28	3.000	S29	15.3	0.705	0.133	0.6191	
180 minute winter	S29	3.001	S30	45.2	1.559	0.361	0.6329	
180 minute winter	S30	3.002	S31	45.6	1.039	0.345	4.9478	
180 minute winter	S31	3.003	S32	44.0	1.223	0.296	1.9859	
180 minute winter	S32	3.004	S33	42.1	1.160	0.071	5.6919	
180 minute winter	S33	2.007	S34	2.5	0.442	0.063	0.2706	
180 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
180 minute winter	H8205	1.013	H8204	97.6	2.022	0.371	0.8389	

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Results for 30 year +40% CC 180 minute winter. 3060 minute analysis at 4 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
180 minute winter	H8204	96	129.315	0.165	97.6	0.2354	0.0000	OK
180 minute winter	S7202	100	130.235	0.235	214.1	0.3356	0.0000	OK
180 minute winter	S8208	100	129.621	0.191	214.0	0.2731	0.0000	OK
180 minute winter	S8201	100	129.066	0.256	321.5	0.3669	0.0000	OK
180 minute winter	S8203	100	128.255	0.235	321.5	0.3367	0.0000	OK
180 minute winter	S7324	100	128.004	0.204	321.5	0.0000	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	H8204	1.014	S8201	97.6	1.748	0.328	0.9756	
180 minute winter	S7202	4.000	S8208	214.0	2.904	0.446	1.9178	
180 minute winter	S8208	4.001	S8201	213.9	2.728	0.305	1.0394	
180 minute winter	S8201	1.015	S8203	321.5	3.630	0.491	1.7158	
180 minute winter	S8203	1.016	S7324	321.5	2.090	0.437	2.6231	1871.1

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Results for 30 year +40% CC 240 minute summer. 3120 minute analysis at 4 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
240 minute summer	H6808	188	145.031	0.044	4.6	0.0625	0.0000	OK
240 minute summer	H7801	192	144.802	0.061	14.6	0.0877	0.0000	OK
240 minute summer	H7907	124	144.036	0.068	25.0	0.0968	0.0000	OK
240 minute summer	H7908	124	140.861	0.075	30.2	0.1074	0.0000	OK
240 minute summer	H7905	124	139.949	0.080	35.3	0.1141	0.0000	OK
240 minute summer	H7906	124	138.471	0.087	42.0	0.1248	0.0000	OK
240 minute summer	H8001	124	135.455	0.112	52.7	0.1603	0.0000	OK
240 minute summer	H8002	124	133.250	0.123	63.5	0.1766	0.0000	OK
240 minute summer	H8105	124	132.161	0.160	69.4	0.2286	0.0000	OK
240 minute summer	H8103	124	131.548	0.132	68.9	0.1887	0.0000	OK
240 minute summer	H8104	124	131.243	0.168	86.8	0.2409	0.0000	OK
240 minute summer	H8207	124	130.360	0.176	98.9	0.2521	0.0000	OK
240 minute summer	H8206	124	129.951	0.191	107.2	0.2727	0.0000	OK
240 minute summer	S21	124	132.095	0.095	22.6	0.1353	0.0000	OK
240 minute summer	S22	124	131.585	0.135	28.3	0.1928	0.0000	OK
240 minute summer	S23	124	131.313	0.113	33.8	0.1618	0.0000	OK
240 minute summer	S24	124	130.906	0.106	36.8	0.1510	0.0000	OK
240 minute summer	S25	308	130.857	0.632	47.8	0.9042	0.0000	SURCHARGED
240 minute summer	S26	316	130.861	0.691	53.0	0.9886	0.0000	SURCHARGED
240 minute summer	S27	348	130.860	0.710	52.0	1.0161	0.0000	SURCHARGED
240 minute summer	S28	124	131.106	0.081	18.8	0.1162	0.0000	OK
240 minute summer	S29	124	130.878	0.153	55.5	0.2185	0.0000	OK
240 minute summer	S30	240	130.859	0.408	55.2	0.5845	0.0000	SURCHARGED
240 minute summer	S31	312	130.857	0.607	55.1	0.8686	0.0000	SURCHARGED
240 minute summer	S32	312	130.857	0.707	52.9	1.2490	0.0000	SURCHARGED
240 minute summer	S33	308	130.857	0.857	109.2	428.1535	0.0000	SURCHARGED
240 minute summer	S34	308	130.857	0.897	2.7	5.1347	0.0000	SURCHARGED
240 minute summer	H8205	124	129.643	0.192	114.6	0.2755	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	H6808	1.000	H7801	4.6	0.688	0.083	0.1548	
240 minute summer	H7801	1.001	H7907	14.6	1.708	0.154	0.2087	
240 minute summer	H7907	1.002	H7908	24.9	2.306	0.198	0.5950	
240 minute summer	H7908	1.003	H7905	30.1	2.491	0.223	0.1659	
240 minute summer	H7905	1.004	H7906	35.2	2.630	0.261	0.2977	
240 minute summer	H7906	1.005	H8001	41.9	2.471	0.321	0.8285	
240 minute summer	H8001	1.006	H8002	52.3	2.706	0.474	0.9292	
240 minute summer	H8002	1.007	H8105	63.3	1.938	0.360	1.4813	
240 minute summer	H8105	1.008	H8103	68.9	1.878	0.510	1.2723	
240 minute summer	H8103	1.009	H8104	68.8	1.677	0.237	0.6696	
240 minute summer	H8104	1.010	H8207	86.2	1.748	0.410	3.9757	
240 minute summer	H8207	1.011	H8206	98.2	1.840	0.409	1.5824	
240 minute summer	H8206	1.012	H8205	106.8	1.893	0.442	1.2031	
240 minute summer	S21	2.000	S22	22.5	1.107	0.373	0.8331	
240 minute summer	S22	2.001	S23	28.0	1.173	0.616	0.5441	
240 minute summer	S23	2.002	S24	33.7	1.453	0.283	0.8106	
240 minute summer	S24	2.003	S25	36.6	1.508	0.270	1.4528	
240 minute summer	S25	2.004	S26	45.9	0.784	0.390	1.7319	
240 minute summer	S26	2.005	S27	52.0	1.086	0.407	0.5352	
240 minute summer	S27	2.006	S33	50.1	1.023	0.094	6.9817	
240 minute summer	S28	3.000	S29	18.7	0.737	0.163	0.7227	
240 minute summer	S29	3.001	S30	55.2	1.634	0.441	0.7902	
240 minute summer	S30	3.002	S31	55.1	1.064	0.418	5.0310	
240 minute summer	S31	3.003	S32	52.9	1.162	0.356	1.9859	
240 minute summer	S32	3.004	S33	50.8	1.094	0.086	5.6919	
240 minute summer	S33	2.007	S34	2.7	0.393	0.067	0.2706	
240 minute summer	S34	2.008	H8205	1.6	0.489	0.039	0.0594	
240 minute summer	H8205	1.013	H8204	114.4	2.067	0.434	0.9629	

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Results for 30 year +40% CC 240 minute summer. 3120 minute analysis at 4 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
240 minute summer	H8204	128	129.335	0.185	114.4	0.2644	0.0000	OK
240 minute summer	S7202	128	130.255	0.255	243.5	0.3643	0.0000	OK
240 minute summer	S8208	132	129.638	0.208	243.5	0.2980	0.0000	OK
240 minute summer	S8201	128	129.093	0.283	370.1	0.4055	0.0000	OK
240 minute summer	S8203	128	128.278	0.258	369.9	0.3685	0.0000	OK
240 minute summer	S7324	128	128.022	0.222	369.8	0.0000	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	H8204	1.014	S8201	114.5	1.739	0.385	1.1054	
240 minute summer	S7202	4.000	S8208	243.5	2.966	0.508	2.1348	
240 minute summer	S8208	4.001	S8201	243.5	2.804	0.347	1.1677	
240 minute summer	S8201	1.015	S8203	369.9	3.719	0.565	1.9267	
240 minute summer	S8203	1.016	S7324	369.8	2.156	0.503	2.9234	2047.3

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Results for 30 year +40% CC 240 minute winter. 3120 minute analysis at 4 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
240 minute winter	H6808	180	145.028	0.041	4.0	0.0585	0.0000	OK
240 minute winter	H7801	200	144.798	0.057	12.8	0.0818	0.0000	OK
240 minute winter	H7907	132	144.028	0.060	19.5	0.0854	0.0000	OK
240 minute winter	H7908	132	140.851	0.065	23.2	0.0931	0.0000	OK
240 minute winter	H7905	132	139.938	0.069	27.0	0.0986	0.0000	OK
240 minute winter	H7906	132	138.460	0.076	32.1	0.1083	0.0000	OK
240 minute winter	H8001	132	135.439	0.096	40.0	0.1369	0.0000	OK
240 minute winter	H8002	132	133.233	0.106	47.8	0.1517	0.0000	OK
240 minute winter	H8105	132	132.135	0.134	51.8	0.1919	0.0000	OK
240 minute winter	H8103	132	131.528	0.112	51.8	0.1597	0.0000	OK
240 minute winter	H8104	128	131.217	0.142	63.5	0.2027	0.0000	OK
240 minute winter	H8207	128	130.330	0.146	71.8	0.2090	0.0000	OK
240 minute winter	H8206	128	129.916	0.156	77.7	0.2238	0.0000	OK
240 minute winter	S21	124	132.076	0.076	15.0	0.1087	0.0000	OK
240 minute winter	S22	124	131.555	0.105	18.8	0.1500	0.0000	OK
240 minute winter	S23	124	131.291	0.091	22.6	0.1300	0.0000	OK
240 minute winter	S24	124	130.886	0.086	24.5	0.1226	0.0000	OK
240 minute winter	S25	304	130.852	0.627	31.9	0.8966	0.0000	SURCHARGED
240 minute winter	S26	328	130.857	0.687	35.4	0.9835	0.0000	SURCHARGED
240 minute winter	S27	308	130.855	0.705	34.9	1.0090	0.0000	SURCHARGED
240 minute winter	S28	124	131.091	0.066	12.5	0.0948	0.0000	OK
240 minute winter	S29	304	130.852	0.127	36.9	0.1813	0.0000	OK
240 minute winter	S30	236	130.857	0.407	36.8	0.5826	0.0000	SURCHARGED
240 minute winter	S31	248	130.853	0.602	36.8	0.8622	0.0000	SURCHARGED
240 minute winter	S32	304	130.852	0.701	35.0	1.2395	0.0000	SURCHARGED
240 minute winter	S33	300	130.852	0.851	73.3	424.9017	0.0000	SURCHARGED
240 minute winter	S34	300	130.851	0.891	2.3	5.1040	0.0000	SURCHARGED
240 minute winter	H8205	128	129.608	0.158	83.2	0.2264	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	H6808	1.000	H7801	4.0	0.649	0.073	0.1406	
240 minute winter	H7801	1.001	H7907	12.8	1.644	0.135	0.1835	
240 minute winter	H7907	1.002	H7908	19.5	2.177	0.155	0.4931	
240 minute winter	H7908	1.003	H7905	23.2	2.341	0.171	0.1359	
240 minute winter	H7905	1.004	H7906	27.0	2.453	0.199	0.2445	
240 minute winter	H7906	1.005	H8001	32.1	2.313	0.246	0.6777	
240 minute winter	H8001	1.006	H8002	39.9	2.530	0.362	0.7587	
240 minute winter	H8002	1.007	H8105	47.8	1.818	0.272	1.1936	
240 minute winter	H8105	1.008	H8103	51.8	1.755	0.383	1.0228	
240 minute winter	H8103	1.009	H8104	51.8	1.586	0.178	0.5319	
240 minute winter	H8104	1.010	H8207	63.5	1.633	0.302	3.1315	
240 minute winter	H8207	1.011	H8206	71.8	1.726	0.299	1.2293	
240 minute winter	H8206	1.012	H8205	77.7	1.772	0.321	0.9318	
240 minute winter	S21	2.000	S22	15.0	1.005	0.249	0.6130	
240 minute winter	S22	2.001	S23	18.8	1.069	0.412	0.3999	
240 minute winter	S23	2.002	S24	22.5	1.305	0.190	0.6036	
240 minute winter	S24	2.003	S25	24.5	1.402	0.181	1.4249	
240 minute winter	S25	2.004	S26	30.7	0.753	0.261	1.7319	
240 minute winter	S26	2.005	S27	34.9	1.044	0.272	0.5352	
240 minute winter	S27	2.006	S33	33.6	1.009	0.063	6.9817	
240 minute winter	S28	3.000	S29	12.5	0.673	0.109	0.5305	
240 minute winter	S29	3.001	S30	36.8	1.483	0.294	0.7765	
240 minute winter	S30	3.002	S31	36.8	0.994	0.279	5.0310	
240 minute winter	S31	3.003	S32	35.0	1.119	0.235	1.9859	
240 minute winter	S32	3.004	S33	33.7	1.076	0.057	5.6919	
240 minute winter	S33	2.007	S34	2.3	0.398	0.059	0.2706	
240 minute winter	S34	2.008	H8205	1.6	0.488	0.039	0.0593	
240 minute winter	H8205	1.013	H8204	83.2	1.975	0.316	0.7318	

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Results for 30 year +40% CC 240 minute winter. 3120 minute analysis at 4 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
240 minute winter	H8204	128	129.297	0.147	83.2	0.2106	0.0000	OK
240 minute winter	S7202	128	130.208	0.208	175.9	0.2977	0.0000	OK
240 minute winter	S8208	132	129.598	0.168	175.9	0.2406	0.0000	OK
240 minute winter	S8201	128	129.037	0.227	267.8	0.3248	0.0000	OK
240 minute winter	S8203	128	128.230	0.210	267.7	0.3005	0.0000	OK
240 minute winter	S7324	128	127.985	0.185	267.6	0.0000	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	H8204	1.014	S8201	83.2	1.679	0.279	0.8467	
240 minute winter	S7202	4.000	S8208	175.9	2.804	0.367	1.6334	
240 minute winter	S8208	4.001	S8201	175.9	2.631	0.250	0.8861	
240 minute winter	S8201	1.015	S8203	267.7	3.509	0.409	1.4784	
240 minute winter	S8203	1.016	S7324	267.6	2.003	0.364	2.2792	2020.9

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Results for 30 year +40% CC 360 minute summer. 3240 minute analysis at 8 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
360 minute summer	H6808	248	145.030	0.043	4.4	0.0612	0.0000	OK
360 minute summer	H7801	256	144.801	0.060	14.1	0.0861	0.0000	OK
360 minute summer	H7907	184	144.030	0.062	21.3	0.0892	0.0000	OK
360 minute summer	H7908	184	140.854	0.068	25.5	0.0979	0.0000	OK
360 minute summer	H7905	184	139.942	0.073	29.7	0.1039	0.0000	OK
360 minute summer	H7906	184	138.463	0.079	35.2	0.1136	0.0000	OK
360 minute summer	H8001	184	135.444	0.101	44.0	0.1442	0.0000	OK
360 minute summer	H8002	184	133.238	0.111	52.6	0.1593	0.0000	OK
360 minute summer	H8105	184	132.143	0.142	57.0	0.2025	0.0000	OK
360 minute summer	H8103	184	131.533	0.117	56.5	0.1680	0.0000	OK
360 minute summer	H8104	184	131.224	0.149	70.0	0.2135	0.0000	OK
360 minute summer	H8207	184	130.338	0.154	79.1	0.2205	0.0000	OK
360 minute summer	H8206	184	129.925	0.165	85.3	0.2365	0.0000	OK
360 minute summer	S21	184	132.081	0.081	17.1	0.1163	0.0000	OK
360 minute summer	S22	184	131.563	0.113	21.4	0.1616	0.0000	OK
360 minute summer	S23	184	131.297	0.097	25.6	0.1390	0.0000	OK
360 minute summer	S24	392	130.928	0.128	27.8	0.1837	0.0000	OK
360 minute summer	S25	400	130.928	0.703	36.1	1.0064	0.0000	SURCHARGED
360 minute summer	S26	392	130.931	0.761	40.2	1.0895	0.0000	SURCHARGED
360 minute summer	S27	400	130.929	0.779	39.5	1.1146	0.0000	SURCHARGED
360 minute summer	S28	184	131.096	0.071	14.3	0.1013	0.0000	OK
360 minute summer	S29	384	130.928	0.203	42.1	0.2903	0.0000	OK
360 minute summer	S30	384	130.928	0.478	41.9	0.6838	0.0000	SURCHARGED
360 minute summer	S31	384	130.928	0.678	41.7	0.9698	0.0000	SURCHARGED
360 minute summer	S32	384	130.928	0.778	39.8	1.3741	0.0000	SURCHARGED
360 minute summer	S33	392	130.928	0.928	82.6	471.8105	0.0000	SURCHARGED
360 minute summer	S34	392	130.928	0.967	2.4	5.5398	0.0000	SURCHARGED
360 minute summer	H8205	184	129.617	0.167	91.2	0.2391	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	H6808	1.000	H7801	4.4	0.660	0.080	0.1507	
360 minute summer	H7801	1.001	H7907	14.1	1.689	0.149	0.1964	
360 minute summer	H7907	1.002	H7908	21.2	2.219	0.169	0.5267	
360 minute summer	H7908	1.003	H7905	25.4	2.392	0.188	0.1459	
360 minute summer	H7905	1.004	H7906	29.6	2.517	0.219	0.2619	
360 minute summer	H7906	1.005	H8001	35.1	2.369	0.269	0.7248	
360 minute summer	H8001	1.006	H8002	43.7	2.588	0.396	0.8113	
360 minute summer	H8002	1.007	H8105	52.4	1.860	0.298	1.2781	
360 minute summer	H8105	1.008	H8103	56.5	1.791	0.419	1.0941	
360 minute summer	H8103	1.009	H8104	56.4	1.609	0.194	0.5706	
360 minute summer	H8104	1.010	H8207	69.5	1.667	0.330	3.3606	
360 minute summer	H8207	1.011	H8206	78.5	1.757	0.327	1.3216	
360 minute summer	H8206	1.012	H8205	85.0	1.804	0.351	1.0017	
360 minute summer	S21	2.000	S22	17.0	1.039	0.282	0.6736	
360 minute summer	S22	2.001	S23	21.2	1.100	0.466	0.4390	
360 minute summer	S23	2.002	S24	25.5	1.350	0.214	0.6604	
360 minute summer	S24	2.003	S25	27.7	1.352	0.204	1.6696	
360 minute summer	S25	2.004	S26	34.8	0.665	0.295	1.7319	
360 minute summer	S26	2.005	S27	39.5	0.905	0.308	0.5352	
360 minute summer	S27	2.006	S33	38.0	0.968	0.071	6.9817	
360 minute summer	S28	3.000	S29	14.2	0.694	0.124	0.7269	
360 minute summer	S29	3.001	S30	41.9	1.530	0.334	0.9530	
360 minute summer	S30	3.002	S31	41.7	0.977	0.316	5.0310	
360 minute summer	S31	3.003	S32	39.8	0.975	0.268	1.9859	
360 minute summer	S32	3.004	S33	37.6	1.032	0.063	5.6919	
360 minute summer	S33	2.007	S34	2.4	0.369	0.060	0.2706	
360 minute summer	S34	2.008	H8205	1.6	0.494	0.041	0.0609	
360 minute summer	H8205	1.013	H8204	91.0	2.004	0.345	0.7885	

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Results for 30 year +40% CC 360 minute summer. 3240 minute analysis at 8 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
360 minute summer	H8204	184	129.306	0.156	91.0	0.2233	0.0000	OK
360 minute summer	S7202	192	130.217	0.217	189.0	0.3108	0.0000	OK
360 minute summer	S8208	192	129.606	0.176	188.9	0.2518	0.0000	OK
360 minute summer	S8201	192	129.046	0.236	284.9	0.3382	0.0000	OK
360 minute summer	S8203	192	128.238	0.218	285.0	0.3123	0.0000	OK
360 minute summer	S7324	192	127.991	0.191	285.0	0.0000	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	H8204	1.014	S8201	90.7	1.717	0.305	0.8949	
360 minute summer	S7202	4.000	S8208	188.9	2.840	0.394	1.7313	
360 minute summer	S8208	4.001	S8201	188.8	2.668	0.269	0.9369	
360 minute summer	S8201	1.015	S8203	285.0	3.551	0.435	1.5549	
360 minute summer	S8203	1.016	S7324	285.0	2.033	0.388	2.3911	2267.3

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Results for 30 year +40% CC 360 minute winter. 3240 minute analysis at 8 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
360 minute winter	H6808	240	145.029	0.042	4.2	0.0598	0.0000	OK
360 minute winter	H7801	240	144.799	0.058	13.1	0.0823	0.0000	OK
360 minute winter	H7907	216	144.027	0.059	18.8	0.0838	0.0000	OK
360 minute winter	H7908	216	140.849	0.063	21.8	0.0902	0.0000	OK
360 minute winter	H7905	216	139.935	0.066	25.0	0.0947	0.0000	OK
360 minute winter	H7906	216	138.456	0.072	29.3	0.1034	0.0000	OK
360 minute winter	H8001	216	135.433	0.090	36.1	0.1294	0.0000	OK
360 minute winter	H8002	208	133.227	0.099	42.4	0.1424	0.0000	OK
360 minute winter	H8105	200	132.125	0.124	45.1	0.1771	0.0000	OK
360 minute winter	H8103	200	131.519	0.103	45.0	0.1478	0.0000	OK
360 minute winter	H8104	200	131.204	0.129	53.1	0.1845	0.0000	OK
360 minute winter	H8207	192	130.315	0.131	59.2	0.1874	0.0000	OK
360 minute winter	H8206	192	129.899	0.139	63.5	0.1989	0.0000	OK
360 minute winter	S21	184	132.065	0.065	11.1	0.0930	0.0000	OK
360 minute winter	S22	184	131.538	0.088	13.9	0.1261	0.0000	OK
360 minute winter	S23	184	131.278	0.077	16.7	0.1109	0.0000	OK
360 minute winter	S24	376	130.929	0.129	18.2	0.1846	0.0000	OK
360 minute winter	S25	376	130.929	0.704	23.6	1.0067	0.0000	SURCHARGED
360 minute winter	S26	376	130.932	0.762	26.3	1.0900	0.0000	SURCHARGED
360 minute winter	S27	392	130.933	0.783	25.8	1.1201	0.0000	SURCHARGED
360 minute winter	S28	184	131.082	0.057	9.3	0.0819	0.0000	OK
360 minute winter	S29	384	130.927	0.202	27.4	0.2889	0.0000	OK
360 minute winter	S30	384	130.927	0.477	27.4	0.6821	0.0000	SURCHARGED
360 minute winter	S31	384	130.926	0.676	27.3	0.9676	0.0000	SURCHARGED
360 minute winter	S32	384	130.926	0.776	26.6	1.3712	0.0000	SURCHARGED
360 minute winter	S33	384	130.926	0.926	55.3	470.7465	0.0000	SURCHARGED
360 minute winter	S34	384	130.926	0.966	2.2	5.5303	0.0000	SURCHARGED
360 minute winter	H8205	192	129.591	0.140	67.7	0.2010	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	H6808	1.000	H7801	4.2	0.647	0.076	0.1432	
360 minute winter	H7801	1.001	H7907	13.1	1.630	0.138	0.1889	
360 minute winter	H7907	1.002	H7908	18.8	2.181	0.149	0.4757	
360 minute winter	H7908	1.003	H7905	21.8	2.314	0.161	0.1292	
360 minute winter	H7905	1.004	H7906	24.9	2.411	0.185	0.2302	
360 minute winter	H7906	1.005	H8001	29.3	2.271	0.225	0.6318	
360 minute winter	H8001	1.006	H8002	36.1	2.466	0.328	0.7045	
360 minute winter	H8002	1.007	H8105	42.4	1.781	0.241	1.0813	
360 minute winter	H8105	1.008	H8103	45.0	1.694	0.334	0.9217	
360 minute winter	H8103	1.009	H8104	45.0	1.562	0.155	0.4720	
360 minute winter	H8104	1.010	H8207	53.1	1.571	0.252	2.7257	
360 minute winter	H8207	1.011	H8206	59.2	1.659	0.247	1.0546	
360 minute winter	H8206	1.012	H8205	63.4	1.698	0.262	0.7948	
360 minute winter	S21	2.000	S22	11.1	0.932	0.184	0.4898	
360 minute winter	S22	2.001	S23	13.9	0.990	0.305	0.3191	
360 minute winter	S23	2.002	S24	16.7	1.200	0.140	0.5312	
360 minute winter	S24	2.003	S25	18.1	1.268	0.134	1.6728	
360 minute winter	S25	2.004	S26	22.8	0.676	0.193	1.7319	
360 minute winter	S26	2.005	S27	25.8	0.914	0.202	0.5352	
360 minute winter	S27	2.006	S33	24.8	0.917	0.046	6.9817	
360 minute winter	S28	3.000	S29	9.3	0.626	0.081	0.7124	
360 minute winter	S29	3.001	S30	27.4	1.375	0.218	0.9510	
360 minute winter	S30	3.002	S31	27.3	0.937	0.207	5.0310	
360 minute winter	S31	3.003	S32	26.6	0.958	0.179	1.9859	
360 minute winter	S32	3.004	S33	24.9	0.973	0.042	5.6919	
360 minute winter	S33	2.007	S34	2.2	0.337	0.055	0.2706	
360 minute winter	S34	2.008	H8205	1.6	0.494	0.041	0.0609	
360 minute winter	H8205	1.013	H8204	67.7	1.906	0.257	0.6175	

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Results for 30 year +40% CC 360 minute winter. 3240 minute analysis at 8 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
360 minute winter	H8204	192	129.279	0.129	67.7	0.1843	0.0000	OK
360 minute winter	S7202	192	130.176	0.176	131.6	0.2516	0.0000	OK
360 minute winter	S8208	192	129.571	0.141	131.6	0.2011	0.0000	OK
360 minute winter	S8201	192	129.002	0.192	205.8	0.2753	0.0000	OK
360 minute winter	S8203	192	128.199	0.179	205.8	0.2568	0.0000	OK
360 minute winter	S7324	192	127.960	0.160	205.8	0.0000	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	H8204	1.014	S8201	67.8	1.635	0.228	0.6966	
360 minute winter	S7202	4.000	S8208	131.6	2.648	0.274	1.2947	
360 minute winter	S8208	4.001	S8201	131.6	2.470	0.187	0.7065	
360 minute winter	S8201	1.015	S8203	205.8	3.331	0.314	1.1971	
360 minute winter	S8203	1.016	S7324	205.8	1.881	0.280	1.8661	2250.0

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Results for 30 year +40% CC 480 minute summer. 3360 minute analysis at 8 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
480 minute summer	H6808	304	145.029	0.042	4.3	0.0605	0.0000	OK
480 minute summer	H7801	320	144.800	0.059	13.5	0.0841	0.0000	OK
480 minute summer	H7907	304	144.026	0.058	18.5	0.0832	0.0000	OK
480 minute summer	H7908	248	140.849	0.063	21.6	0.0898	0.0000	OK
480 minute summer	H7905	248	139.936	0.067	25.2	0.0952	0.0000	OK
480 minute summer	H7906	248	138.457	0.073	29.9	0.1044	0.0000	OK
480 minute summer	H8001	248	135.435	0.092	37.3	0.1315	0.0000	OK
480 minute summer	H8002	248	133.229	0.102	44.5	0.1460	0.0000	OK
480 minute summer	H8105	248	132.129	0.128	48.1	0.1837	0.0000	OK
480 minute summer	H8103	248	131.523	0.107	48.0	0.1529	0.0000	OK
480 minute summer	H8104	248	131.211	0.136	58.6	0.1940	0.0000	OK
480 minute summer	H8207	248	130.323	0.139	66.0	0.1990	0.0000	OK
480 minute summer	H8206	248	129.909	0.149	71.2	0.2125	0.0000	OK
480 minute summer	S21	248	132.072	0.072	13.4	0.1026	0.0000	OK
480 minute summer	S22	248	131.548	0.098	16.8	0.1407	0.0000	OK
480 minute summer	S23	248	131.286	0.086	20.2	0.1226	0.0000	OK
480 minute summer	S24	472	130.978	0.178	22.0	0.2547	0.0000	OK
480 minute summer	S25	472	130.978	0.753	28.6	1.0772	0.0000	SURCHARGED
480 minute summer	S26	512	130.981	0.811	31.8	1.1600	0.0000	SURCHARGED
480 minute summer	S27	528	130.981	0.831	31.4	1.1888	0.0000	SURCHARGED
480 minute summer	S28	248	131.088	0.062	11.1	0.0894	0.0000	OK
480 minute summer	S29	488	130.975	0.250	32.9	0.3583	0.0000	OK
480 minute summer	S30	488	130.976	0.526	32.9	0.7520	0.0000	SURCHARGED
480 minute summer	S31	488	130.976	0.726	32.9	1.0385	0.0000	SURCHARGED
480 minute summer	S32	488	130.976	0.826	31.4	1.4593	0.0000	SURCHARGED
480 minute summer	S33	488	130.976	0.976	66.8	502.3699	0.0000	SURCHARGED
480 minute summer	S34	488	130.976	1.016	2.4	5.8160	0.0000	SURCHARGED
480 minute summer	H8205	248	129.600	0.150	76.1	0.2150	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	H6808	1.000	H7801	4.3	0.648	0.078	0.1463	
480 minute summer	H7801	1.001	H7907	13.5	1.667	0.143	0.1913	
480 minute summer	H7907	1.002	H7908	18.5	2.186	0.147	0.4688	
480 minute summer	H7908	1.003	H7905	21.6	2.300	0.160	0.1292	
480 minute summer	H7905	1.004	H7906	25.2	2.412	0.187	0.2326	
480 minute summer	H7906	1.005	H8001	29.9	2.271	0.229	0.6434	
480 minute summer	H8001	1.006	H8002	37.2	2.484	0.337	0.7199	
480 minute summer	H8002	1.007	H8105	44.5	1.787	0.253	1.1293	
480 minute summer	H8105	1.008	H8103	48.0	1.721	0.355	0.9664	
480 minute summer	H8103	1.009	H8104	48.0	1.558	0.165	0.5010	
480 minute summer	H8104	1.010	H8207	58.5	1.601	0.278	2.9407	
480 minute summer	H8207	1.011	H8206	65.9	1.695	0.275	1.1491	
480 minute summer	H8206	1.012	H8205	71.1	1.740	0.294	0.8695	
480 minute summer	S21	2.000	S22	13.4	0.979	0.222	0.5643	
480 minute summer	S22	2.001	S23	16.8	1.040	0.369	0.3682	
480 minute summer	S23	2.002	S24	20.2	1.267	0.170	0.8114	
480 minute summer	S24	2.003	S25	22.0	1.231	0.162	1.9185	
480 minute summer	S25	2.004	S26	27.6	0.602	0.234	1.7319	
480 minute summer	S26	2.005	S27	31.4	0.815	0.246	0.5352	
480 minute summer	S27	2.006	S33	30.4	0.899	0.057	6.9817	
480 minute summer	S28	3.000	S29	11.1	0.652	0.097	0.9053	
480 minute summer	S29	3.001	S30	32.9	1.442	0.262	1.0486	
480 minute summer	S30	3.002	S31	32.9	0.911	0.249	5.0310	
480 minute summer	S31	3.003	S32	31.4	0.875	0.211	1.9859	
480 minute summer	S32	3.004	S33	31.2	0.969	0.053	5.6919	
480 minute summer	S33	2.007	S34	2.4	0.349	0.061	0.2706	
480 minute summer	S34	2.008	H8205	1.7	0.497	0.042	0.0619	
480 minute summer	H8205	1.013	H8204	76.1	1.946	0.289	0.6793	

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Results for 30 year +40% CC 480 minute summer. 3360 minute analysis at 8 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
480 minute summer	H8204	248	129.289	0.139	76.1	0.1985	0.0000	OK
480 minute summer	S7202	248	130.194	0.194	156.4	0.2778	0.0000	OK
480 minute summer	S8208	248	129.586	0.156	156.2	0.2234	0.0000	OK
480 minute summer	S8201	248	129.022	0.212	240.2	0.3029	0.0000	OK
480 minute summer	S8203	248	128.217	0.197	240.0	0.2813	0.0000	OK
480 minute summer	S7324	248	127.974	0.174	239.8	0.0000	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	H8204	1.014	S8201	76.1	1.686	0.255	0.7794	
480 minute summer	S7202	4.000	S8208	156.2	2.740	0.326	1.4854	
480 minute summer	S8208	4.001	S8201	156.1	2.570	0.222	0.8067	
480 minute summer	S8201	1.015	S8203	240.0	3.435	0.366	1.3538	
480 minute summer	S8203	1.016	S7324	239.8	1.951	0.326	2.0963	2434.8

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Results for 30 year +40% CC 480 minute winter. 3360 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
480 minute winter	H6808	320	145.027	0.040	3.8	0.0571	0.0000	OK
480 minute winter	H7801	312	144.796	0.055	12.0	0.0787	0.0000	OK
480 minute winter	H7907	288	144.024	0.056	17.1	0.0799	0.0000	OK
480 minute winter	H7908	288	140.846	0.060	19.7	0.0855	0.0000	OK
480 minute winter	H7905	288	139.932	0.063	22.5	0.0896	0.0000	OK
480 minute winter	H7906	288	138.453	0.068	26.5	0.0980	0.0000	OK
480 minute winter	H8001	288	135.428	0.085	32.4	0.1218	0.0000	OK
480 minute winter	H8002	288	133.221	0.094	37.6	0.1338	0.0000	OK
480 minute winter	H8105	272	132.116	0.115	39.6	0.1645	0.0000	OK
480 minute winter	H8103	272	131.512	0.096	39.5	0.1376	0.0000	OK
480 minute winter	H8104	272	131.194	0.119	45.7	0.1705	0.0000	OK
480 minute winter	H8207	256	130.304	0.120	50.4	0.1716	0.0000	OK
480 minute winter	H8206	256	129.887	0.127	53.8	0.1810	0.0000	OK
480 minute winter	S21	248	132.058	0.058	8.9	0.0832	0.0000	OK
480 minute winter	S22	248	131.528	0.078	11.2	0.1121	0.0000	OK
480 minute winter	S23	248	131.270	0.070	13.5	0.0995	0.0000	OK
480 minute winter	S24	488	130.973	0.173	14.7	0.2480	0.0000	OK
480 minute winter	S25	496	130.973	0.748	19.1	1.0706	0.0000	SURCHARGED
480 minute winter	S26	512	130.978	0.808	21.2	1.1556	0.0000	SURCHARGED
480 minute winter	S27	504	130.977	0.826	21.0	1.1827	0.0000	SURCHARGED
480 minute winter	S28	248	131.076	0.051	7.4	0.0733	0.0000	OK
480 minute winter	S29	488	130.972	0.247	21.9	0.3535	0.0000	OK
480 minute winter	S30	488	130.972	0.522	21.9	0.7471	0.0000	SURCHARGED
480 minute winter	S31	488	130.972	0.722	21.9	1.0335	0.0000	SURCHARGED
480 minute winter	S32	488	130.972	0.822	21.7	1.4529	0.0000	SURCHARGED
480 minute winter	S33	488	130.972	0.972	45.9	500.0447	0.0000	SURCHARGED
480 minute winter	S34	488	130.972	1.012	2.2	5.7956	0.0000	SURCHARGED
480 minute winter	H8205	256	129.578	0.128	57.5	0.1832	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	H6808	1.000	H7801	3.8	0.627	0.069	0.1340	
480 minute winter	H7801	1.001	H7907	12.0	1.590	0.127	0.1772	
480 minute winter	H7907	1.002	H7908	17.1	2.128	0.136	0.4430	
480 minute winter	H7908	1.003	H7905	19.7	2.257	0.146	0.1197	
480 minute winter	H7905	1.004	H7906	22.5	2.342	0.166	0.2133	
480 minute winter	H7906	1.005	H8001	26.4	2.214	0.203	0.5843	
480 minute winter	H8001	1.006	H8002	32.4	2.397	0.294	0.6505	
480 minute winter	H8002	1.007	H8105	37.6	1.733	0.214	0.9846	
480 minute winter	H8105	1.008	H8103	39.5	1.639	0.293	0.8365	
480 minute winter	H8103	1.009	H8104	39.5	1.523	0.136	0.4249	
480 minute winter	H8104	1.010	H8207	45.7	1.517	0.217	2.4277	
480 minute winter	H8207	1.011	H8206	50.4	1.601	0.210	0.9309	
480 minute winter	H8206	1.012	H8205	53.7	1.633	0.222	0.7000	
480 minute winter	S21	2.000	S22	8.9	0.878	0.148	0.4179	
480 minute winter	S22	2.001	S23	11.2	0.936	0.246	0.2728	
480 minute winter	S23	2.002	S24	13.5	1.132	0.114	0.7575	
480 minute winter	S24	2.003	S25	14.7	1.183	0.108	1.8954	
480 minute winter	S25	2.004	S26	18.4	0.610	0.156	1.7319	
480 minute winter	S26	2.005	S27	21.0	0.820	0.164	0.5352	
480 minute winter	S27	2.006	S33	20.3	0.840	0.038	6.9817	
480 minute winter	S28	3.000	S29	7.4	0.590	0.064	0.8863	
480 minute winter	S29	3.001	S30	21.9	1.298	0.175	1.0425	
480 minute winter	S30	3.002	S31	21.9	0.853	0.166	5.0310	
480 minute winter	S31	3.003	S32	21.7	0.884	0.146	1.9859	
480 minute winter	S32	3.004	S33	21.4	0.900	0.036	5.6919	
480 minute winter	S33	2.007	S34	2.2	0.340	0.055	0.2706	
480 minute winter	S34	2.008	H8205	1.7	0.497	0.042	0.0618	
480 minute winter	H8205	1.013	H8204	57.4	1.845	0.218	0.5412	

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Results for 30 year +40% CC 480 minute winter. 3360 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
480 minute winter	H8204	256	129.267	0.116	57.4	0.1667	0.0000	OK
480 minute winter	S7202	248	130.156	0.156	106.2	0.2232	0.0000	OK
480 minute winter	S8208	248	129.554	0.124	106.2	0.1771	0.0000	OK
480 minute winter	S8201	256	128.981	0.171	168.3	0.2440	0.0000	OK
480 minute winter	S8203	256	128.180	0.160	168.3	0.2285	0.0000	OK
480 minute winter	S7324	256	127.944	0.144	168.3	0.0000	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	H8204	1.014	S8201	57.4	1.589	0.193	0.6002	
480 minute winter	S7202	4.000	S8208	106.2	2.531	0.221	1.0942	
480 minute winter	S8208	4.001	S8201	106.1	2.359	0.151	0.5977	
480 minute winter	S8201	1.015	S8203	168.3	3.194	0.257	1.0208	
480 minute winter	S8203	1.016	S7324	168.3	1.790	0.229	1.6036	2412.6

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Results for 30 year +40% CC 600 minute summer. 3480 minute analysis at 15 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
600 minute summer	H6808	375	145.028	0.041	4.1	0.0592	0.0000	OK
600 minute summer	H7801	375	144.799	0.058	13.1	0.0826	0.0000	OK
600 minute summer	H7907	375	144.025	0.057	17.9	0.0818	0.0000	OK
600 minute summer	H7908	360	140.847	0.061	20.4	0.0871	0.0000	OK
600 minute summer	H7905	360	139.933	0.064	23.2	0.0911	0.0000	OK
600 minute summer	H7906	360	138.453	0.069	27.2	0.0993	0.0000	OK
600 minute summer	H8001	315	135.430	0.087	33.5	0.1238	0.0000	OK
600 minute summer	H8002	315	133.223	0.096	39.7	0.1376	0.0000	OK
600 minute summer	H8105	315	132.121	0.120	42.6	0.1713	0.0000	OK
600 minute summer	H8103	315	131.516	0.100	42.5	0.1429	0.0000	OK
600 minute summer	H8104	315	131.201	0.126	51.1	0.1804	0.0000	OK
600 minute summer	H8207	315	130.312	0.128	57.1	0.1836	0.0000	OK
600 minute summer	H8206	315	129.896	0.136	61.3	0.1949	0.0000	OK
600 minute summer	S21	315	132.064	0.064	10.8	0.0918	0.0000	OK
600 minute summer	S22	315	131.537	0.087	13.6	0.1247	0.0000	OK
600 minute summer	S23	315	131.277	0.077	16.4	0.1100	0.0000	OK
600 minute summer	S24	600	131.010	0.210	17.9	0.3009	0.0000	OK
600 minute summer	S25	600	131.008	0.782	23.3	1.1197	0.0000	SURCHARGED
600 minute summer	S26	615	131.008	0.838	26.1	1.1991	0.0000	SURCHARGED
600 minute summer	S27	630	131.007	0.857	25.9	1.2257	0.0000	SURCHARGED
600 minute summer	S28	315	131.082	0.057	9.1	0.0811	0.0000	OK
600 minute summer	S29	615	131.005	0.280	26.8	0.4004	0.0000	OK
600 minute summer	S30	615	131.005	0.555	26.8	0.7940	0.0000	SURCHARGED
600 minute summer	S31	615	131.005	0.755	26.5	1.0803	0.0000	SURCHARGED
600 minute summer	S32	615	131.005	0.855	26.3	1.5106	0.0000	SURCHARGED
600 minute summer	S33	615	131.005	1.005	54.5	521.0717	0.0000	SURCHARGED
600 minute summer	S34	615	131.005	1.045	2.0	5.9829	0.0000	SURCHARGED
600 minute summer	H8205	315	129.588	0.138	65.6	0.1973	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	H6808	1.000	H7801	4.1	0.636	0.074	0.1426	
600 minute summer	H7801	1.001	H7907	13.1	1.641	0.138	0.1871	
600 minute summer	H7907	1.002	H7908	17.9	2.166	0.142	0.4562	
600 minute summer	H7908	1.003	H7905	20.4	2.280	0.151	0.1227	
600 minute summer	H7905	1.004	H7906	23.2	2.364	0.171	0.2177	
600 minute summer	H7906	1.005	H8001	27.1	2.231	0.208	0.5951	
600 minute summer	H8001	1.006	H8002	33.4	2.415	0.303	0.6648	
600 minute summer	H8002	1.007	H8105	39.7	1.748	0.226	1.0338	
600 minute summer	H8105	1.008	H8103	42.5	1.669	0.315	0.8824	
600 minute summer	H8103	1.009	H8104	42.5	1.538	0.146	0.4545	
600 minute summer	H8104	1.010	H8207	51.0	1.550	0.242	2.6484	
600 minute summer	H8207	1.011	H8206	57.0	1.643	0.238	1.0258	
600 minute summer	H8206	1.012	H8205	61.2	1.682	0.253	0.7742	
600 minute summer	S21	2.000	S22	10.8	0.924	0.179	0.4818	
600 minute summer	S22	2.001	S23	13.6	0.985	0.299	0.3146	
600 minute summer	S23	2.002	S24	16.4	1.194	0.138	0.9650	
600 minute summer	S24	2.003	S25	17.9	1.160	0.132	2.0737	
600 minute summer	S25	2.004	S26	22.7	0.557	0.192	1.7319	
600 minute summer	S26	2.005	S27	25.9	0.741	0.202	0.5352	
600 minute summer	S27	2.006	S33	25.1	0.825	0.047	6.9817	
600 minute summer	S28	3.000	S29	9.1	0.623	0.079	0.9794	
600 minute summer	S29	3.001	S30	26.8	1.368	0.214	1.0924	
600 minute summer	S30	3.002	S31	26.5	0.860	0.201	5.0310	
600 minute summer	S31	3.003	S32	26.3	0.801	0.177	1.9859	
600 minute summer	S32	3.004	S33	24.0	0.867	0.041	5.6919	
600 minute summer	S33	2.007	S34	2.0	0.309	0.051	0.2706	
600 minute summer	S34	2.008	H8205	1.7	0.499	0.042	0.0625	
600 minute summer	H8205	1.013	H8204	65.5	1.894	0.249	0.6011	

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Results for 30 year +40% CC 600 minute summer. 3480 minute analysis at 15 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
600 minute summer	H8204	315	129.276	0.126	65.5	0.1805	0.0000	OK
600 minute summer	S7202	315	130.175	0.175	130.5	0.2504	0.0000	OK
600 minute summer	S8208	315	129.570	0.140	130.4	0.2002	0.0000	OK
600 minute summer	S8201	315	129.000	0.190	202.4	0.2725	0.0000	OK
600 minute summer	S8203	315	128.198	0.178	202.3	0.2542	0.0000	OK
600 minute summer	S7324	315	127.959	0.159	202.3	0.0000	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	H8204	1.014	S8201	65.5	1.660	0.220	0.6837	
600 minute summer	S7202	4.000	S8208	130.4	2.642	0.272	1.2863	
600 minute summer	S8208	4.001	S8201	130.4	2.474	0.186	0.6990	
600 minute summer	S8201	1.015	S8203	202.3	3.319	0.309	1.1811	
600 minute summer	S8203	1.016	S7324	202.3	1.873	0.275	1.8420	2560.2

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Results for 30 year +40% CC 600 minute winter. 3480 minute analysis at 15 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
600 minute winter	H6808	375	145.025	0.038	3.5	0.0548	0.0000	OK
600 minute winter	H7801	375	144.794	0.053	11.0	0.0751	0.0000	OK
600 minute winter	H7907	375	144.022	0.054	15.7	0.0766	0.0000	OK
600 minute winter	H7908	360	140.843	0.057	18.0	0.0816	0.0000	OK
600 minute winter	H7905	360	139.929	0.060	20.5	0.0853	0.0000	OK
600 minute winter	H7906	360	138.449	0.065	24.1	0.0933	0.0000	OK
600 minute winter	H8001	360	135.424	0.081	29.6	0.1158	0.0000	OK
600 minute winter	H8002	360	133.216	0.089	34.4	0.1277	0.0000	OK
600 minute winter	H8105	360	132.110	0.109	36.0	0.1560	0.0000	OK
600 minute winter	H8103	360	131.507	0.091	36.0	0.1308	0.0000	OK
600 minute winter	H8104	330	131.188	0.113	41.2	0.1614	0.0000	OK
600 minute winter	H8207	330	130.297	0.113	45.2	0.1618	0.0000	OK
600 minute winter	H8206	330	129.879	0.119	48.0	0.1699	0.0000	OK
600 minute winter	S21	315	132.053	0.053	7.4	0.0758	0.0000	OK
600 minute winter	S22	315	131.521	0.071	9.3	0.1014	0.0000	OK
600 minute winter	S23	315	131.263	0.063	11.2	0.0904	0.0000	OK
600 minute winter	S24	615	131.003	0.203	12.2	0.2898	0.0000	OK
600 minute winter	S25	615	131.001	0.776	15.9	1.1106	0.0000	SURCHARGED
600 minute winter	S26	630	131.003	0.833	17.7	1.1923	0.0000	SURCHARGED
600 minute winter	S27	645	131.003	0.852	17.6	1.2199	0.0000	SURCHARGED
600 minute winter	S28	315	131.072	0.047	6.2	0.0673	0.0000	OK
600 minute winter	S29	615	131.000	0.275	18.3	0.3940	0.0000	OK
600 minute winter	S30	615	131.000	0.550	18.3	0.7875	0.0000	SURCHARGED
600 minute winter	S31	615	131.000	0.750	18.2	1.0737	0.0000	SURCHARGED
600 minute winter	S32	615	131.000	0.850	18.4	1.5026	0.0000	SURCHARGED
600 minute winter	S33	615	131.000	1.000	39.0	518.1108	0.0000	SURCHARGED
600 minute winter	S34	615	131.000	1.040	2.0	5.9563	0.0000	SURCHARGED
600 minute winter	H8205	330	129.570	0.120	51.3	0.1721	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	H6808	1.000	H7801	3.5	0.619	0.064	0.1259	
600 minute winter	H7801	1.001	H7907	11.0	1.548	0.116	0.1671	
600 minute winter	H7907	1.002	H7908	15.7	2.083	0.125	0.4158	
600 minute winter	H7908	1.003	H7905	18.0	2.207	0.133	0.1119	
600 minute winter	H7905	1.004	H7906	20.5	2.285	0.152	0.1993	
600 minute winter	H7906	1.005	H8001	24.1	2.158	0.184	0.5457	
600 minute winter	H8001	1.006	H8002	29.6	2.338	0.268	0.6079	
600 minute winter	H8002	1.007	H8105	34.4	1.694	0.196	0.9203	
600 minute winter	H8105	1.008	H8103	36.0	1.599	0.267	0.7801	
600 minute winter	H8103	1.009	H8104	36.0	1.492	0.124	0.3939	
600 minute winter	H8104	1.010	H8207	41.2	1.479	0.196	2.2472	
600 minute winter	H8207	1.011	H8206	45.2	1.562	0.188	0.8552	
600 minute winter	H8206	1.012	H8205	48.0	1.589	0.198	0.6418	
600 minute winter	S21	2.000	S22	7.4	0.836	0.123	0.3650	
600 minute winter	S22	2.001	S23	9.3	0.890	0.204	0.2381	
600 minute winter	S23	2.002	S24	11.2	1.074	0.094	0.9046	
600 minute winter	S24	2.003	S25	12.2	1.106	0.090	2.0375	
600 minute winter	S25	2.004	S26	15.4	0.575	0.131	1.7319	
600 minute winter	S26	2.005	S27	17.6	0.770	0.138	0.5352	
600 minute winter	S27	2.006	S33	17.1	0.790	0.032	6.9817	
600 minute winter	S28	3.000	S29	6.2	0.570	0.054	0.9658	
600 minute winter	S29	3.001	S30	18.3	1.238	0.146	1.0868	
600 minute winter	S30	3.002	S31	18.2	0.818	0.138	5.0310	
600 minute winter	S31	3.003	S32	18.4	0.833	0.124	1.9859	
600 minute winter	S32	3.004	S33	18.3	0.845	0.031	5.6919	
600 minute winter	S33	2.007	S34	2.0	0.293	0.051	0.2706	
600 minute winter	S34	2.008	H8205	1.7	0.499	0.042	0.0624	
600 minute winter	H8205	1.013	H8204	51.3	1.800	0.195	0.4955	

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Results for 30 year +40% CC 600 minute winter. 3480 minute analysis at 15 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
600 minute winter	H8204	330	129.259	0.109	51.3	0.1562	0.0000	OK
600 minute winter	S7202	315	130.142	0.142	89.1	0.2029	0.0000	OK
600 minute winter	S8208	315	129.542	0.112	89.1	0.1600	0.0000	OK
600 minute winter	S8201	315	128.966	0.156	144.3	0.2232	0.0000	OK
600 minute winter	S8203	315	128.166	0.146	144.3	0.2095	0.0000	OK
600 minute winter	S7324	315	127.933	0.133	144.2	0.0000	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	H8204	1.014	S8201	51.3	1.559	0.172	0.5368	
600 minute winter	S7202	4.000	S8208	89.1	2.435	0.186	0.9546	
600 minute winter	S8208	4.001	S8201	89.1	2.258	0.127	0.5249	
600 minute winter	S8201	1.015	S8203	144.3	3.088	0.220	0.9052	
600 minute winter	S8203	1.016	S7324	144.2	1.722	0.196	1.4289	2539.7

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Results for 30 year +40% CC 720 minute summer. 3600 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
720 minute summer	H6808	435	145.028	0.041	4.0	0.0584	0.0000	OK
720 minute summer	H7801	435	144.798	0.056	12.6	0.0808	0.0000	OK
720 minute summer	H7907	435	144.025	0.057	17.5	0.0809	0.0000	OK
720 minute summer	H7908	435	140.846	0.060	19.8	0.0859	0.0000	OK
720 minute summer	H7905	435	139.932	0.062	22.4	0.0894	0.0000	OK
720 minute summer	H7906	435	138.452	0.068	26.3	0.0976	0.0000	OK
720 minute summer	H8001	435	135.428	0.085	32.2	0.1213	0.0000	OK
720 minute summer	H8002	420	133.220	0.092	36.8	0.1323	0.0000	OK
720 minute summer	H8105	375	132.115	0.114	39.1	0.1632	0.0000	OK
720 minute summer	H8103	375	131.511	0.095	39.0	0.1363	0.0000	OK
720 minute summer	H8104	375	131.195	0.120	46.6	0.1718	0.0000	OK
720 minute summer	H8207	375	130.306	0.122	51.9	0.1742	0.0000	OK
720 minute summer	H8206	375	129.889	0.129	55.6	0.1845	0.0000	OK
720 minute summer	S21	375	132.060	0.060	9.6	0.0864	0.0000	OK
720 minute summer	S22	375	131.532	0.082	12.1	0.1169	0.0000	OK
720 minute summer	S23	375	131.272	0.072	14.6	0.1036	0.0000	OK
720 minute summer	S24	735	131.028	0.228	15.9	0.3261	0.0000	OK
720 minute summer	S25	750	131.028	0.803	20.7	1.1489	0.0000	SURCHARGED
720 minute summer	S26	720	131.033	0.863	23.2	1.2345	0.0000	SURCHARGED
720 minute summer	S27	750	131.028	0.878	23.1	1.2561	0.0000	SURCHARGED
720 minute summer	S28	375	131.078	0.053	8.0	0.0762	0.0000	OK
720 minute summer	S29	735	131.027	0.302	23.6	0.4318	0.0000	SURCHARGED
720 minute summer	S30	735	131.027	0.577	23.6	0.8255	0.0000	SURCHARGED
720 minute summer	S31	735	131.027	0.777	23.4	1.1119	0.0000	SURCHARGED
720 minute summer	S32	735	131.027	0.877	21.8	1.5499	0.0000	SURCHARGED
720 minute summer	S33	735	131.027	1.027	48.6	535.5294	0.0000	SURCHARGED
720 minute summer	S34	735	131.027	1.067	1.9	6.1097	0.0000	SURCHARGED
720 minute summer	H8205	375	129.581	0.131	59.6	0.1870	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	H6808	1.000	H7801	4.0	0.634	0.073	0.1390	
720 minute summer	H7801	1.001	H7907	12.6	1.617	0.133	0.1827	
720 minute summer	H7907	1.002	H7908	17.5	2.150	0.139	0.4479	
720 minute summer	H7908	1.003	H7905	19.8	2.267	0.146	0.1199	
720 minute summer	H7905	1.004	H7906	22.4	2.342	0.166	0.2125	
720 minute summer	H7906	1.005	H8001	26.3	2.212	0.201	0.5810	
720 minute summer	H8001	1.006	H8002	32.2	2.391	0.292	0.6466	
720 minute summer	H8002	1.007	H8105	36.8	1.734	0.210	0.9707	
720 minute summer	H8105	1.008	H8103	39.0	1.633	0.289	0.8282	
720 minute summer	H8103	1.009	H8104	39.0	1.528	0.134	0.4252	
720 minute summer	H8104	1.010	H8207	46.5	1.516	0.221	2.4709	
720 minute summer	H8207	1.011	H8206	51.8	1.608	0.216	0.9531	
720 minute summer	H8206	1.012	H8205	55.6	1.644	0.230	0.7190	
720 minute summer	S21	2.000	S22	9.6	0.896	0.159	0.4420	
720 minute summer	S22	2.001	S23	12.1	0.955	0.266	0.2887	
720 minute summer	S23	2.002	S24	14.6	1.157	0.123	1.0405	
720 minute summer	S24	2.003	S25	15.9	1.080	0.117	2.1522	
720 minute summer	S25	2.004	S26	20.2	0.527	0.171	1.7319	
720 minute summer	S26	2.005	S27	23.1	0.674	0.180	0.5352	
720 minute summer	S27	2.006	S33	22.4	0.796	0.042	6.9817	
720 minute summer	S28	3.000	S29	8.0	0.602	0.070	1.0110	
720 minute summer	S29	3.001	S30	23.6	1.324	0.188	1.1080	
720 minute summer	S30	3.002	S31	23.4	0.803	0.177	5.0310	
720 minute summer	S31	3.003	S32	21.8	0.725	0.146	1.9859	
720 minute summer	S32	3.004	S33	22.3	0.848	0.038	5.6919	
720 minute summer	S33	2.007	S34	1.9	0.282	0.047	0.2706	
720 minute summer	S34	2.008	H8205	1.7	0.500	0.043	0.0629	
720 minute summer	H8205	1.013	H8204	59.6	1.859	0.226	0.5569	

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Results for 30 year +40% CC 720 minute summer. 3600 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
720 minute summer	H8204	375	129.269	0.119	59.6	0.1703	0.0000	OK
720 minute summer	S7202	375	130.163	0.163	115.3	0.2336	0.0000	OK
720 minute summer	S8208	375	129.560	0.130	115.3	0.1860	0.0000	OK
720 minute summer	S8201	375	128.988	0.178	180.6	0.2544	0.0000	OK
720 minute summer	S8203	375	128.186	0.166	180.5	0.2379	0.0000	OK
720 minute summer	S7324	375	127.949	0.149	180.5	0.0000	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	H8204	1.014	S8201	59.5	1.631	0.200	0.6278	
720 minute summer	S7202	4.000	S8208	115.3	2.575	0.240	1.1668	
720 minute summer	S8208	4.001	S8201	115.2	2.408	0.164	0.6350	
720 minute summer	S8201	1.015	S8203	180.5	3.242	0.276	1.0790	
720 minute summer	S8203	1.016	S7324	180.5	1.821	0.246	1.6905	2670.4

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Results for 30 year +40% CC 720 minute winter. 3600 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
720 minute winter	H6808	450	145.024	0.037	3.3	0.0532	0.0000	OK
720 minute winter	H7801	450	144.792	0.051	10.2	0.0724	0.0000	OK
720 minute winter	H7907	435	144.020	0.052	14.6	0.0739	0.0000	OK
720 minute winter	H7908	435	140.841	0.055	16.7	0.0785	0.0000	OK
720 minute winter	H7905	435	139.926	0.057	19.0	0.0821	0.0000	OK
720 minute winter	H7906	435	138.447	0.063	22.3	0.0897	0.0000	OK
720 minute winter	H8001	435	135.421	0.077	27.3	0.1109	0.0000	OK
720 minute winter	H8002	420	133.213	0.086	31.7	0.1224	0.0000	OK
720 minute winter	H8105	420	132.105	0.104	33.2	0.1492	0.0000	OK
720 minute winter	H8103	420	131.503	0.087	33.2	0.1251	0.0000	OK
720 minute winter	H8104	405	131.183	0.108	37.6	0.1540	0.0000	OK
720 minute winter	H8207	405	130.291	0.107	40.9	0.1533	0.0000	OK
720 minute winter	H8206	405	129.872	0.112	43.2	0.1603	0.0000	OK
720 minute winter	S21	375	132.049	0.049	6.4	0.0705	0.0000	OK
720 minute winter	S22	375	131.515	0.065	8.0	0.0936	0.0000	OK
720 minute winter	S23	375	131.259	0.058	9.6	0.0837	0.0000	OK
720 minute winter	S24	735	131.027	0.227	10.5	0.3249	0.0000	OK
720 minute winter	S25	735	131.028	0.803	13.7	1.1486	0.0000	SURCHARGED
720 minute winter	S26	750	131.030	0.860	15.3	1.2302	0.0000	SURCHARGED
720 minute winter	S27	735	131.029	0.879	15.2	1.2572	0.0000	SURCHARGED
720 minute winter	S28	375	131.069	0.044	5.4	0.0629	0.0000	OK
720 minute winter	S29	720	131.027	0.302	15.9	0.4319	0.0000	SURCHARGED
720 minute winter	S30	720	131.027	0.577	15.9	0.8254	0.0000	SURCHARGED
720 minute winter	S31	720	131.027	0.777	15.9	1.1116	0.0000	SURCHARGED
720 minute winter	S32	720	131.027	0.877	14.8	1.5494	0.0000	SURCHARGED
720 minute winter	S33	720	131.027	1.027	33.5	535.3339	0.0000	SURCHARGED
720 minute winter	S34	720	131.027	1.067	1.8	6.1081	0.0000	SURCHARGED
720 minute winter	H8205	390	129.564	0.113	46.2	0.1624	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	H6808	1.000	H7801	3.3	0.607	0.060	0.1198	
720 minute winter	H7801	1.001	H7907	10.2	1.518	0.108	0.1583	
720 minute winter	H7907	1.002	H7908	14.6	2.039	0.116	0.3942	
720 minute winter	H7908	1.003	H7905	16.7	2.165	0.124	0.1059	
720 minute winter	H7905	1.004	H7906	19.0	2.239	0.141	0.1887	
720 minute winter	H7906	1.005	H8001	22.3	2.117	0.171	0.5154	
720 minute winter	H8001	1.006	H8002	27.3	2.287	0.248	0.5735	
720 minute winter	H8002	1.007	H8105	31.7	1.659	0.180	0.8668	
720 minute winter	H8105	1.008	H8103	33.2	1.565	0.246	0.7350	
720 minute winter	H8103	1.009	H8104	33.2	1.461	0.114	0.3695	
720 minute winter	H8104	1.010	H8207	37.6	1.447	0.179	2.0944	
720 minute winter	H8207	1.011	H8206	40.9	1.528	0.170	0.7912	
720 minute winter	H8206	1.012	H8205	43.2	1.551	0.178	0.5921	
720 minute winter	S21	2.000	S22	6.4	0.805	0.106	0.3275	
720 minute winter	S22	2.001	S23	8.0	0.855	0.176	0.2133	
720 minute winter	S23	2.002	S24	9.6	1.026	0.081	1.0328	
720 minute winter	S24	2.003	S25	10.5	1.050	0.077	2.1487	
720 minute winter	S25	2.004	S26	13.3	0.535	0.113	1.7319	
720 minute winter	S26	2.005	S27	15.2	0.715	0.119	0.5352	
720 minute winter	S27	2.006	S33	14.8	0.747	0.028	6.9817	
720 minute winter	S28	3.000	S29	5.4	0.555	0.047	1.0111	
720 minute winter	S29	3.001	S30	15.9	1.192	0.127	1.1081	
720 minute winter	S30	3.002	S31	15.9	0.752	0.120	5.0310	
720 minute winter	S31	3.003	S32	14.8	0.774	0.099	1.9859	
720 minute winter	S32	3.004	S33	16.0	0.788	0.027	5.6919	
720 minute winter	S33	2.007	S34	1.8	0.299	0.046	0.2706	
720 minute winter	S34	2.008	H8205	1.7	0.500	0.043	0.0629	
720 minute winter	H8205	1.013	H8204	46.2	1.759	0.175	0.4568	

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Results for 30 year +40% CC 720 minute winter. 3600 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
720 minute winter	H8204	405	129.253	0.103	46.2	0.1472	0.0000	OK
720 minute winter	S7202	375	130.132	0.132	77.5	0.1883	0.0000	OK
720 minute winter	S8208	375	129.533	0.103	77.5	0.1478	0.0000	OK
720 minute winter	S8201	375	128.955	0.145	126.9	0.2075	0.0000	OK
720 minute winter	S8203	375	128.156	0.136	126.8	0.1949	0.0000	OK
720 minute winter	S7324	375	127.925	0.125	126.8	0.0000	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	H8204	1.014	S8201	46.2	1.533	0.155	0.4889	
720 minute winter	S7202	4.000	S8208	77.5	2.359	0.162	0.8572	
720 minute winter	S8208	4.001	S8201	77.5	2.186	0.110	0.4726	
720 minute winter	S8201	1.015	S8203	126.8	3.002	0.194	0.8190	
720 minute winter	S8203	1.016	S7324	126.8	1.667	0.173	1.2979	2645.6

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Results for 30 year +40% CC 960 minute summer. 3840 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 summer	H6808	555	145.026	0.039	3.7	0.0563	0.0000	OK
960 minute summer	H7801	555	144.795	0.054	11.6	0.0774	0.0000	OK
960 minute summer	H7907	555	144.022	0.054	16.2	0.0778	0.0000	OK
960 minute summer	H7908	555	140.844	0.058	18.4	0.0826	0.0000	OK
960 minute summer	H7905	555	139.929	0.060	20.8	0.0860	0.0000	OK
960 minute summer	H7906	555	138.450	0.066	24.4	0.0939	0.0000	OK
960 minute summer	H8001	555	135.424	0.081	29.9	0.1164	0.0000	OK
960 minute summer	H8002	555	133.216	0.089	34.3	0.1275	0.0000	OK
960 minute summer	H8105	540	132.109	0.108	35.6	0.1551	0.0000	OK
960 minute summer	H8103	540	131.507	0.091	35.6	0.1301	0.0000	OK
960 minute summer	H8104	495	131.186	0.111	40.1	0.1589	0.0000	OK
960 minute summer	H8207	495	130.296	0.112	44.4	0.1601	0.0000	OK
960 minute summer	H8206	495	129.878	0.118	47.5	0.1689	0.0000	OK
960 minute summer	S21	495	132.054	0.054	7.8	0.0779	0.0000	OK
960 minute summer	S22	495	131.523	0.073	9.8	0.1043	0.0000	OK
960 minute summer	S23	495	131.265	0.065	11.8	0.0929	0.0000	OK
960 minute summer	S24	975	131.060	0.260	12.9	0.3717	0.0000	OK
960 minute summer	S25	975	131.058	0.833	16.8	1.1922	0.0000	SURCHARGED
960 minute summer	S26	990	131.062	0.892	18.9	1.2760	0.0000	SURCHARGED
960 minute summer	S27	1005	131.059	0.909	18.8	1.3007	0.0000	SURCHARGED
960 minute summer	S28	495	131.073	0.048	6.5	0.0688	0.0000	OK
960 minute summer	S29	975	131.057	0.332	19.2	0.4748	0.0000	SURCHARGED
960 minute summer	S30	975	131.057	0.607	19.2	0.8683	0.0000	SURCHARGED
960 minute summer	S31	975	131.057	0.807	19.1	1.1546	0.0000	SURCHARGED
960 minute summer	S32	975	131.057	0.907	17.9	1.6024	0.0000	SURCHARGED
960 minute summer	S33	975	131.057	1.057	40.1	555.0948	0.0000	SURCHARGED
960 minute summer	S34	975	131.057	1.097	1.9	6.2800	0.0000	SURCHARGED
960 minute summer	H8205	495	129.570	0.120	51.0	0.1715	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	H6808	1.000	H7801	3.7	0.622	0.067	0.1311	
960 minute summer	H7801	1.001	H7907	11.6	1.581	0.122	0.1724	
960 minute summer	H7907	1.002	H7908	16.2	2.102	0.129	0.4241	
960 minute summer	H7908	1.003	H7905	18.4	2.225	0.136	0.1135	
960 minute summer	H7905	1.004	H7906	20.8	2.296	0.154	0.2013	
960 minute summer	H7906	1.005	H8001	24.4	2.167	0.187	0.5502	
960 minute summer	H8001	1.006	H8002	29.9	2.344	0.271	0.6124	
960 minute summer	H8002	1.007	H8105	34.3	1.701	0.195	0.9146	
960 minute summer	H8105	1.008	H8103	35.6	1.594	0.264	0.7737	
960 minute summer	H8103	1.009	H8104	35.6	1.499	0.122	0.3876	
960 minute summer	H8104	1.010	H8207	40.0	1.471	0.190	2.2076	
960 minute summer	H8207	1.011	H8206	44.4	1.552	0.185	0.8457	
960 minute summer	H8206	1.012	H8205	47.4	1.583	0.196	0.6373	
960 minute summer	S21	2.000	S22	7.8	0.848	0.129	0.3793	
960 minute summer	S22	2.001	S23	9.8	0.903	0.215	0.2474	
960 minute summer	S23	2.002	S24	11.8	1.089	0.099	1.1671	
960 minute summer	S24	2.003	S25	12.9	1.019	0.095	2.2765	
960 minute summer	S25	2.004	S26	16.4	0.487	0.139	1.7319	
960 minute summer	S26	2.005	S27	18.8	0.619	0.147	0.5352	
960 minute summer	S27	2.006	S33	18.3	0.771	0.034	6.9817	
960 minute summer	S28	3.000	S29	6.5	0.572	0.057	1.0455	
960 minute summer	S29	3.001	S30	19.2	1.253	0.153	1.1083	
960 minute summer	S30	3.002	S31	19.1	0.725	0.144	5.0310	
960 minute summer	S31	3.003	S32	17.9	0.665	0.120	1.9859	
960 minute summer	S32	3.004	S33	18.3	0.818	0.031	5.6919	
960 minute summer	S33	2.007	S34	1.9	0.252	0.047	0.2706	
960 minute summer	S34	2.008	H8205	1.7	0.502	0.043	0.0635	
960 minute summer	H8205	1.013	H8204	50.9	1.799	0.193	0.4920	

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Results for 30 year +40% CC 960 minute summer. 3840 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 summer	H8204	495	129.258	0.108	50.9	0.1552	0.0000	OK
960 minute summer	S7202	495	130.145	0.145	93.3	0.2080	0.0000	OK
960 minute summer	S8208	495	129.545	0.115	93.3	0.1644	0.0000	OK
960 minute summer	S8201	495	128.969	0.159	148.9	0.2272	0.0000	OK
960 minute summer	S8203	495	128.169	0.149	148.8	0.2132	0.0000	OK
960 minute summer	S7324	495	127.935	0.135	148.8	0.0000	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	H8204	1.014	S8201	50.9	1.591	0.171	0.5453	
960 minute summer	S7202	4.000	S8208	93.3	2.459	0.194	0.9897	
960 minute summer	S8208	4.001	S8201	93.3	2.292	0.133	0.5408	
960 minute summer	S8201	1.015	S8203	148.8	3.110	0.227	0.9274	
960 minute summer	S8203	1.016	S7324	148.8	1.735	0.202	1.4625	2847.4

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Results for 30 year +40% CC 960 minute winter. 3840 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	H6808	585	145.021	0.034	2.8	0.0492	0.0000	OK
960 minute winter	H7801	570	144.788	0.047	8.8	0.0670	0.0000	OK
960 minute winter	H7907	570	144.016	0.048	12.6	0.0686	0.0000	OK
960 minute winter	H7908	570	140.837	0.051	14.4	0.0727	0.0000	OK
960 minute winter	H7905	540	139.922	0.053	16.4	0.0760	0.0000	OK
960 minute winter	H7906	540	138.442	0.058	19.3	0.0833	0.0000	OK
960 minute winter	H8001	540	135.415	0.072	23.7	0.1028	0.0000	OK
960 minute winter	H8002	540	133.207	0.080	27.5	0.1139	0.0000	OK
960 minute winter	H8105	540	132.097	0.096	28.7	0.1378	0.0000	OK
960 minute winter	H8103	540	131.497	0.081	28.6	0.1156	0.0000	OK
960 minute winter	H8104	540	131.175	0.100	32.3	0.1426	0.0000	OK
960 minute winter	H8207	540	130.283	0.099	34.9	0.1411	0.0000	OK
960 minute winter	H8206	540	129.863	0.103	36.7	0.1468	0.0000	OK
960 minute winter	S21	495	132.044	0.044	5.1	0.0630	0.0000	OK
960 minute winter	S22	495	131.508	0.058	6.4	0.0833	0.0000	OK
960 minute winter	S23	495	131.252	0.052	7.7	0.0750	0.0000	OK
960 minute winter	S24	960	131.057	0.257	8.4	0.3675	0.0000	OK
960 minute winter	S25	960	131.059	0.834	11.0	1.1930	0.0000	SURCHARGED
960 minute winter	S26	960	131.061	0.891	12.3	1.2751	0.0000	SURCHARGED
960 minute winter	S27	1005	131.055	0.905	12.3	1.2950	0.0000	SURCHARGED
960 minute winter	S28	495	131.065	0.039	4.3	0.0565	0.0000	OK
960 minute winter	S29	960	131.056	0.331	12.7	0.4731	0.0000	SURCHARGED
960 minute winter	S30	960	131.056	0.606	12.7	0.8665	0.0000	SURCHARGED
960 minute winter	S31	960	131.056	0.806	12.4	1.1527	0.0000	SURCHARGED
960 minute winter	S32	960	131.056	0.906	12.1	1.6000	0.0000	SURCHARGED
960 minute winter	S33	960	131.056	1.056	27.8	554.1790	0.0000	SURCHARGED
960 minute winter	S34	960	131.055	1.095	2.4	6.2722	0.0000	SURCHARGED
960 minute winter	H8205	540	129.554	0.104	39.5	0.1491	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	H6808	1.000	H7801	2.8	0.579	0.051	0.1071	
960 minute winter	H7801	1.001	H7907	8.8	1.450	0.093	0.1424	
960 minute winter	H7907	1.002	H7908	12.6	1.959	0.100	0.3542	
960 minute winter	H7908	1.003	H7905	14.4	2.086	0.107	0.0948	
960 minute winter	H7905	1.004	H7906	16.4	2.148	0.121	0.1697	
960 minute winter	H7906	1.005	H8001	19.3	2.031	0.148	0.4644	
960 minute winter	H8001	1.006	H8002	23.7	2.200	0.215	0.5169	
960 minute winter	H8002	1.007	H8105	27.5	1.598	0.156	0.7798	
960 minute winter	H8105	1.008	H8103	28.6	1.505	0.212	0.6602	
960 minute winter	H8103	1.009	H8104	28.6	1.409	0.099	0.3314	
960 minute winter	H8104	1.010	H8207	32.3	1.391	0.154	1.8730	
960 minute winter	H8207	1.011	H8206	34.9	1.471	0.146	0.7021	
960 minute winter	H8206	1.012	H8205	36.7	1.489	0.152	0.5247	
960 minute winter	S21	2.000	S22	5.1	0.755	0.085	0.2785	
960 minute winter	S22	2.001	S23	6.4	0.803	0.141	0.1816	
960 minute winter	S23	2.002	S24	7.7	0.963	0.065	1.1400	
960 minute winter	S24	2.003	S25	8.4	0.976	0.062	2.2664	
960 minute winter	S25	2.004	S26	10.7	0.503	0.091	1.7319	
960 minute winter	S26	2.005	S27	12.3	0.666	0.096	0.5352	
960 minute winter	S27	2.006	S33	11.9	0.704	0.022	6.9817	
960 minute winter	S28	3.000	S29	4.3	0.529	0.037	1.0427	
960 minute winter	S29	3.001	S30	12.7	1.122	0.101	1.1083	
960 minute winter	S30	3.002	S31	12.4	0.699	0.094	5.0310	
960 minute winter	S31	3.003	S32	12.1	0.714	0.081	1.9859	
960 minute winter	S32	3.004	S33	13.2	0.729	0.022	5.6919	
960 minute winter	S33	2.007	S34	2.4	0.254	0.060	0.2706	
960 minute winter	S34	2.008	H8205	1.7	0.502	0.043	0.0635	
960 minute winter	H8205	1.013	H8204	39.5	1.694	0.150	0.4053	

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Results for 30 year +40% CC 960 minute winter. 3840 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	H8204	540	129.244	0.094	39.5	0.1351	0.0000	OK
960 minute winter	S7202	495	130.117	0.117	61.8	0.1671	0.0000	OK
960 minute winter	S8208	495	129.521	0.091	61.8	0.1302	0.0000	OK
960 minute winter	S8201	495	128.939	0.129	103.4	0.1851	0.0000	OK
960 minute winter	S8203	495	128.142	0.122	103.3	0.1742	0.0000	OK
960 minute winter	S7324	495	127.912	0.112	103.3	0.0000	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	H8204	1.014	S8201	39.5	1.485	0.133	0.4239	
960 minute winter	S7202	4.000	S8208	61.8	2.237	0.129	0.7212	
960 minute winter	S8208	4.001	S8201	61.8	2.065	0.088	0.3998	
960 minute winter	S8201	1.015	S8203	103.3	2.864	0.158	0.6992	
960 minute winter	S8203	1.016	S7324	103.3	1.581	0.141	1.1150	2819.8

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Results for 30 year +40% CC 1440 minute summer. 4320 minute analysis at 30 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
1440 minute summer	H6808	810	145.023	0.036	3.1	0.0516	0.0000	OK
1440 minute summer	H7801	810	144.791	0.050	9.8	0.0710	0.0000	OK
1440 minute summer	H7907	810	144.018	0.050	13.6	0.0713	0.0000	OK
1440 minute summer	H7908	810	140.839	0.053	15.4	0.0752	0.0000	OK
1440 minute summer	H7905	810	139.924	0.055	17.5	0.0786	0.0000	OK
1440 minute summer	H7906	810	138.444	0.060	20.5	0.0859	0.0000	OK
1440 minute summer	H8001	810	135.417	0.074	25.1	0.1060	0.0000	OK
1440 minute summer	H8002	810	133.209	0.081	28.8	0.1166	0.0000	OK
1440 minute summer	H8105	780	132.100	0.099	29.9	0.1410	0.0000	OK
1440 minute summer	H8103	780	131.499	0.083	29.9	0.1182	0.0000	OK
1440 minute summer	H8104	780	131.176	0.101	33.5	0.1451	0.0000	OK
1440 minute summer	H8207	780	130.284	0.100	36.1	0.1435	0.0000	OK
1440 minute summer	H8206	780	129.864	0.104	37.8	0.1492	0.0000	OK
1440 minute summer	S21	750	132.046	0.046	5.5	0.0654	0.0000	OK
1440 minute summer	S22	750	131.511	0.061	6.9	0.0866	0.0000	OK
1440 minute summer	S23	750	131.254	0.054	8.3	0.0779	0.0000	OK
1440 minute summer	S24	1440	131.084	0.284	9.0	0.4063	0.0000	OK
1440 minute summer	S25	1440	131.079	0.854	11.7	1.2214	0.0000	SURCHARGED
1440 minute summer	S26	1470	131.081	0.911	13.2	1.3042	0.0000	SURCHARGED
1440 minute summer	S27	1440	131.078	0.928	13.1	1.3284	0.0000	SURCHARGED
1440 minute summer	S28	1440	131.077	0.052	4.6	0.0748	0.0000	OK
1440 minute summer	S29	1440	131.077	0.352	13.5	0.5041	0.0000	SURCHARGED
1440 minute summer	S30	1440	131.077	0.627	13.5	0.8976	0.0000	SURCHARGED
1440 minute summer	S31	1440	131.077	0.827	13.0	1.1839	0.0000	SURCHARGED
1440 minute summer	S32	1470	131.077	0.927	12.7	1.6386	0.0000	SURCHARGED
1440 minute summer	S33	1470	131.077	1.077	28.8	568.7197	0.0000	SURCHARGED
1440 minute summer	S34	1470	131.077	1.117	1.8	6.3975	0.0000	SURCHARGED
1440 minute summer	H8205	780	129.556	0.106	40.6	0.1513	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	H6808	1.000	H7801	3.1	0.590	0.056	0.1158	
1440 minute summer	H7801	1.001	H7907	9.8	1.508	0.103	0.1524	
1440 minute summer	H7907	1.002	H7908	13.6	2.007	0.108	0.3728	
1440 minute summer	H7908	1.003	H7905	15.4	2.120	0.114	0.0997	
1440 minute summer	H7905	1.004	H7906	17.5	2.189	0.129	0.1776	
1440 minute summer	H7906	1.005	H8001	20.5	2.067	0.157	0.4848	
1440 minute summer	H8001	1.006	H8002	25.1	2.235	0.227	0.5393	
1440 minute summer	H8002	1.007	H8105	28.8	1.624	0.164	0.8047	
1440 minute summer	H8105	1.008	H8103	29.9	1.521	0.221	0.6808	
1440 minute summer	H8103	1.009	H8104	29.9	1.434	0.103	0.3408	
1440 minute summer	H8104	1.010	H8207	33.5	1.404	0.159	1.9187	
1440 minute summer	H8207	1.011	H8206	36.0	1.484	0.150	0.7184	
1440 minute summer	H8206	1.012	H8205	37.8	1.501	0.156	0.5361	
1440 minute summer	S21	2.000	S22	5.5	0.772	0.091	0.2940	
1440 minute summer	S22	2.001	S23	6.9	0.820	0.152	0.1917	
1440 minute summer	S23	2.002	S24	8.3	0.986	0.070	1.2321	
1440 minute summer	S24	2.003	S25	9.0	0.921	0.066	2.3471	
1440 minute summer	S25	2.004	S26	11.5	0.436	0.098	1.7319	
1440 minute summer	S26	2.005	S27	13.1	0.566	0.103	0.5352	
1440 minute summer	S27	2.006	S33	12.8	0.590	0.024	6.9817	
1440 minute summer	S28	3.000	S29	4.6	0.538	0.040	1.1051	
1440 minute summer	S29	3.001	S30	13.5	1.139	0.108	1.1083	
1440 minute summer	S30	3.002	S31	13.0	0.642	0.098	5.0310	
1440 minute summer	S31	3.003	S32	12.7	0.616	0.085	1.9859	
1440 minute summer	S32	3.004	S33	12.4	0.623	0.021	5.6919	
1440 minute summer	S33	2.007	S34	1.8	0.261	0.044	0.2706	
1440 minute summer	S34	2.008	H8205	1.7	0.503	0.043	0.0639	
1440 minute summer	H8205	1.013	H8204	40.6	1.707	0.154	0.4143	

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Results for 30 year +40% CC 1440 minute summer. 4320 minute analysis at 30 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
1440 minute summer	H8204	780	129.246	0.096	40.6	0.1374	0.0000	OK
1440 minute summer	S7202	750	130.121	0.121	65.9	0.1728	0.0000	OK
1440 minute summer	S8208	720	129.525	0.095	65.9	0.1353	0.0000	OK
1440 minute summer	S8201	750	128.944	0.134	109.6	0.1912	0.0000	OK
1440 minute summer	S8203	750	128.146	0.126	109.6	0.1798	0.0000	OK
1440 minute summer	S7324	750	127.916	0.116	109.6	0.0000	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	H8204	1.014	S8201	40.6	1.533	0.136	0.4408	
1440 minute summer	S7202	4.000	S8208	65.9	2.273	0.137	0.7582	
1440 minute summer	S8208	4.001	S8201	65.9	2.122	0.094	0.4193	
1440 minute summer	S8201	1.015	S8203	109.6	2.904	0.167	0.7316	
1440 minute summer	S8203	1.016	S7324	109.6	1.605	0.149	1.1646	3093.8

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Results for 30 year +40% CC 1440 minute winter. 4320 minute analysis at 30 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
1440 minute winter	H6808	840	145.018	0.031	2.2	0.0438	0.0000	OK
1440 minute winter	H7801	840	144.783	0.041	6.9	0.0594	0.0000	OK
1440 minute winter	H7907	810	144.011	0.043	9.9	0.0610	0.0000	OK
1440 minute winter	H7908	810	140.831	0.045	11.3	0.0641	0.0000	OK
1440 minute winter	H7905	810	139.916	0.047	12.9	0.0672	0.0000	OK
1440 minute winter	H7906	810	138.436	0.052	15.2	0.0739	0.0000	OK
1440 minute winter	H8001	810	135.406	0.063	18.6	0.0905	0.0000	OK
1440 minute winter	H8002	810	133.197	0.070	21.5	0.1006	0.0000	OK
1440 minute winter	H8105	810	132.085	0.084	22.4	0.1208	0.0000	OK
1440 minute winter	H8103	810	131.487	0.071	22.4	0.1014	0.0000	OK
1440 minute winter	H8104	810	131.162	0.087	25.0	0.1251	0.0000	OK
1440 minute winter	H8207	810	130.270	0.086	26.9	0.1231	0.0000	OK
1440 minute winter	H8206	780	129.849	0.089	28.2	0.1276	0.0000	OK
1440 minute winter	S21	750	132.038	0.038	3.7	0.0539	0.0000	OK
1440 minute winter	S22	750	131.499	0.049	4.6	0.0703	0.0000	OK
1440 minute winter	S23	750	131.244	0.044	5.5	0.0635	0.0000	OK
1440 minute winter	S24	1410	131.080	0.280	6.0	0.4012	0.0000	OK
1440 minute winter	S25	1440	131.079	0.854	7.8	1.2226	0.0000	SURCHARGED
1440 minute winter	S26	1440	131.085	0.915	8.9	1.3095	0.0000	SURCHARGED
1440 minute winter	S27	1410	131.078	0.928	8.8	1.3278	0.0000	SURCHARGED
1440 minute winter	S28	1410	131.079	0.054	3.1	0.0767	0.0000	OK
1440 minute winter	S29	1410	131.079	0.354	9.1	0.5061	0.0000	SURCHARGED
1440 minute winter	S30	1410	131.079	0.629	9.1	0.8996	0.0000	SURCHARGED
1440 minute winter	S31	1410	131.079	0.829	8.8	1.1859	0.0000	SURCHARGED
1440 minute winter	S32	1410	131.079	0.929	9.7	1.6411	0.0000	SURCHARGED
1440 minute winter	S33	1410	131.079	1.079	23.6	569.6279	0.0000	SURCHARGED
1440 minute winter	S34	1410	131.079	1.119	1.8	6.4051	0.0000	SURCHARGED
1440 minute winter	H8205	780	129.541	0.091	30.6	0.1304	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	H6808	1.000	H7801	2.2	0.538	0.040	0.0903	
1440 minute winter	H7801	1.001	H7907	6.9	1.355	0.073	0.1198	
1440 minute winter	H7907	1.002	H7908	9.9	1.832	0.079	0.2974	
1440 minute winter	H7908	1.003	H7905	11.3	1.950	0.084	0.0796	
1440 minute winter	H7905	1.004	H7906	12.9	2.009	0.095	0.1428	
1440 minute winter	H7906	1.005	H8001	15.2	1.904	0.116	0.3904	
1440 minute winter	H8001	1.006	H8002	18.6	2.058	0.169	0.4339	
1440 minute winter	H8002	1.007	H8105	21.5	1.496	0.122	0.6516	
1440 minute winter	H8105	1.008	H8103	22.4	1.407	0.166	0.5512	
1440 minute winter	H8103	1.009	H8104	22.4	1.324	0.077	0.2752	
1440 minute winter	H8104	1.010	H8207	25.0	1.298	0.119	1.5501	
1440 minute winter	H8207	1.011	H8206	26.9	1.378	0.112	0.5768	
1440 minute winter	H8206	1.012	H8205	28.2	1.389	0.117	0.4323	
1440 minute winter	S21	2.000	S22	3.7	0.692	0.061	0.2202	
1440 minute winter	S22	2.001	S23	4.6	0.732	0.101	0.1431	
1440 minute winter	S23	2.002	S24	5.5	0.874	0.046	1.2207	
1440 minute winter	S24	2.003	S25	6.0	0.858	0.044	2.3384	
1440 minute winter	S25	2.004	S26	7.7	0.448	0.065	1.7319	
1440 minute winter	S26	2.005	S27	8.8	0.582	0.069	0.5352	
1440 minute winter	S27	2.006	S33	8.6	0.617	0.016	6.9817	
1440 minute winter	S28	3.000	S29	3.1	0.484	0.027	1.1095	
1440 minute winter	S29	3.001	S30	9.1	1.021	0.073	1.1083	
1440 minute winter	S30	3.002	S31	8.8	0.639	0.067	5.0310	
1440 minute winter	S31	3.003	S32	9.7	0.618	0.065	1.9859	
1440 minute winter	S32	3.004	S33	14.4	0.664	0.024	5.6919	
1440 minute winter	S33	2.007	S34	1.8	0.176	0.044	0.2706	
1440 minute winter	S34	2.008	H8205	1.7	0.503	0.043	0.0639	
1440 minute winter	H8205	1.013	H8204	30.6	1.594	0.116	0.3340	

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Results for 30 year +40% CC 1440 minute winter. 4320 minute analysis at 30 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
1440 minute winter	H8204	810	129.232	0.082	30.6	0.1176	0.0000	OK
1440 minute winter	S7202	750	130.098	0.098	44.3	0.1407	0.0000	OK
1440 minute winter	S8208	720	129.506	0.076	44.3	0.1088	0.0000	OK
1440 minute winter	S8201	750	128.920	0.110	76.7	0.1575	0.0000	OK
1440 minute winter	S8203	750	128.124	0.104	76.7	0.1483	0.0000	OK
1440 minute winter	S7324	750	127.897	0.097	76.7	0.0000	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	H8204	1.014	S8201	30.6	1.413	0.103	0.3430	
1440 minute winter	S7202	4.000	S8208	44.3	2.063	0.092	0.5614	
1440 minute winter	S8208	4.001	S8201	44.3	1.892	0.063	0.3145	
1440 minute winter	S8201	1.015	S8203	76.7	2.668	0.117	0.5572	
1440 minute winter	S8203	1.016	S7324	76.7	1.462	0.104	0.8949	3072.5

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Results for 100 year +45% CC 60 minute summer. 2940 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
60 minute summer	H6808	33	145.057	0.070	11.5	0.0996	0.0000	OK
60 minute summer	H7801	33	144.832	0.091	32.9	0.1302	0.0000	OK
60 minute summer	H7907	33	144.086	0.118	69.1	0.1694	0.0000	OK
60 minute summer	H7908	33	140.929	0.143	85.4	0.2042	0.0000	OK
60 minute summer	H7905	34	140.058	0.189	101.7	0.2705	0.0000	OK
60 minute summer	H7906	35	139.303	0.919	118.4	1.3154	0.0000	SURCHARGED
60 minute summer	H8001	33	136.768	1.425	144.8	2.0392	6.3296	FLOOD
60 minute summer	H8002	34	134.369	1.242	154.7	1.7767	0.0000	FLOOD RISK
60 minute summer	H8105	34	133.501	1.500	159.7	2.1465	1.7035	FLOOD
60 minute summer	H8103	34	132.779	1.363	151.0	1.9508	0.0000	FLOOD RISK
60 minute summer	H8104	34	132.650	1.575	205.8	2.2538	0.2227	FLOOD
60 minute summer	H8207	34	131.759	1.575	237.1	2.2538	6.9465	FLOOD
60 minute summer	H8206	36	131.387	1.627	246.5	2.3285	0.0000	SURCHARGED
60 minute summer	S21	34	133.192	1.192	73.7	1.7054	0.0000	FLOOD RISK
60 minute summer	S22	34	132.300	0.850	90.2	1.2165	0.0000	SURCHARGED
60 minute summer	S23	34	131.446	0.246	107.9	0.3515	0.0000	OK
60 minute summer	S24	35	131.116	0.315	117.5	0.4515	0.0000	SURCHARGED
60 minute summer	S25	209	130.802	0.577	150.0	0.8250	0.0000	SURCHARGED
60 minute summer	S26	213	130.807	0.637	171.6	0.9117	0.0000	SURCHARGED
60 minute summer	S27	203	130.808	0.658	170.9	0.9416	0.0000	SURCHARGED
60 minute summer	S28	34	131.764	0.739	61.5	1.0569	0.0000	SURCHARGED
60 minute summer	S29	33	131.662	0.937	179.1	1.3403	0.0000	SURCHARGED
60 minute summer	S30	34	131.093	0.643	177.0	0.9197	0.0000	SURCHARGED
60 minute summer	S31	199	130.802	0.552	176.4	0.7896	0.0000	SURCHARGED
60 minute summer	S32	199	130.802	0.651	176.5	1.1511	0.0000	SURCHARGED
60 minute summer	S33	197	130.801	0.801	362.7	394.8920	0.0000	SURCHARGED
60 minute summer	S34	197	130.801	0.841	5.1	4.8173	0.0000	SURCHARGED
60 minute summer	H8205	37	131.034	1.584	259.0	2.2673	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	H6808	1.000	H7801	11.5	0.904	0.208	0.2791	
60 minute summer	H7801	1.001	H7907	32.8	1.817	0.347	0.4247	
60 minute summer	H7907	1.002	H7908	69.1	2.942	0.550	1.3136	
60 minute summer	H7908	1.003	H7905	86.0	3.091	0.637	0.4154	
60 minute summer	H7905	1.004	H7906	98.7	3.260	0.730	0.8381	
60 minute summer	H7906	1.005	H8001	113.4	2.894	0.869	1.9415	
60 minute summer	H8001	1.006	H8002	120.6	3.048	1.094	1.9114	
60 minute summer	H8002	1.007	H8105	140.8	2.182	0.801	3.1889	
60 minute summer	H8105	1.008	H8103	151.0	2.145	1.119	2.4415	
60 minute summer	H8103	1.009	H8104	150.7	1.805	0.519	1.7911	
60 minute summer	H8104	1.010	H8207	197.6	1.950	0.939	8.8835	
60 minute summer	H8207	1.011	H8206	217.1	1.969	0.905	3.2609	
60 minute summer	H8206	1.012	H8205	238.5	2.163	0.986	2.3452	
60 minute summer	S21	2.000	S22	71.5	1.797	1.186	1.6311	
60 minute summer	S22	2.001	S23	89.9	2.261	1.977	0.8970	
60 minute summer	S23	2.002	S24	108.0	1.807	0.908	2.2494	
60 minute summer	S24	2.003	S25	113.7	1.641	0.839	2.3710	
60 minute summer	S25	2.004	S26	148.7	1.348	1.261	1.7319	
60 minute summer	S26	2.005	S27	170.9	1.696	1.336	0.5352	
60 minute summer	S27	2.006	S33	168.2	1.503	0.314	6.9817	
60 minute summer	S28	3.000	S29	60.1	0.853	0.523	1.9798	
60 minute summer	S29	3.001	S30	177.0	2.514	1.412	1.1083	
60 minute summer	S30	3.002	S31	176.4	1.600	1.336	5.0310	
60 minute summer	S31	3.003	S32	176.5	1.736	1.187	1.9859	
60 minute summer	S32	3.004	S33	172.7	1.589	0.291	5.6919	
60 minute summer	S33	2.007	S34	5.1	0.603	0.129	0.2706	
60 minute summer	S34	2.008	H8205	-7.9	0.488	-0.197	0.7362	
60 minute summer	H8205	1.013	H8204	246.1	2.232	0.934	1.9159	

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Results for 100 year +45% CC 60 minute summer. 2940 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
60 minute summer	H8204	38	130.705	1.554	246.1	2.2245	0.0000	SURCHARGED
60 minute summer	S7202	39	132.111	2.111	542.2	3.0215	0.0000	SURCHARGED
60 minute summer	S8208	39	131.076	1.645	543.0	2.3547	0.0000	SURCHARGED
60 minute summer	S8201	39	130.403	1.593	781.9	2.2799	0.0000	SURCHARGED
60 minute summer	S8203	39	128.631	0.611	782.0	0.8742	0.0000	SURCHARGED
60 minute summer	S7324	39	128.217	0.417	782.1	0.0000	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	H8204	1.014	S8201	242.1	2.196	0.813	1.7007	
60 minute summer	S7202	4.000	S8208	543.0	3.428	1.132	4.1206	
60 minute summer	S8208	4.001	S8201	544.6	3.438	0.775	2.0946	
60 minute summer	S8201	1.015	S8203	782.0	4.936	1.194	3.0698	
60 minute summer	S8203	1.016	S7324	782.1	2.468	1.064	5.3153	1847.1

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Results for 100 year +45% CC 60 minute winter. 2940 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
60 minute winter	H6808	33	145.046	0.059	8.4	0.0844	0.0000	OK
60 minute winter	H7801	33	144.818	0.077	24.1	0.1101	0.0000	OK
60 minute winter	H7907	33	144.067	0.098	50.3	0.1409	0.0000	OK
60 minute winter	H7908	33	140.901	0.115	62.1	0.1641	0.0000	OK
60 minute winter	H7905	33	139.992	0.123	73.4	0.1762	0.0000	OK
60 minute winter	H7906	33	138.518	0.134	87.7	0.1918	0.0000	OK
60 minute winter	H8001	32	135.535	0.191	110.5	0.2740	0.0000	OK
60 minute winter	H8002	35	133.351	0.224	135.9	0.3203	0.0000	OK
60 minute winter	H8105	37	132.746	0.745	149.0	1.0666	0.0000	SURCHARGED
60 minute winter	H8103	37	132.128	0.712	147.5	1.0195	0.0000	SURCHARGED
60 minute winter	H8104	37	132.017	0.942	188.8	1.3480	0.0000	SURCHARGED
60 minute winter	H8207	38	131.378	1.194	206.2	1.7089	0.0000	SURCHARGED
60 minute winter	H8206	38	131.031	1.271	216.8	1.8192	0.0000	SURCHARGED
60 minute winter	S21	34	132.396	0.396	53.2	0.5664	0.0000	SURCHARGED
60 minute winter	S22	34	131.914	0.464	65.9	0.6633	0.0000	SURCHARGED
60 minute winter	S23	34	131.389	0.189	79.2	0.2711	0.0000	OK
60 minute winter	S24	34	130.982	0.182	86.4	0.2598	0.0000	OK
60 minute winter	S25	181	130.788	0.563	112.3	0.8058	0.0000	SURCHARGED
60 minute winter	S26	192	130.794	0.624	126.6	0.8934	0.0000	SURCHARGED
60 minute winter	S27	213	130.794	0.644	125.2	0.9220	0.0000	SURCHARGED
60 minute winter	S28	33	131.153	0.128	44.4	0.1833	0.0000	OK
60 minute winter	S29	33	131.110	0.385	131.3	0.5507	0.0000	SURCHARGED
60 minute winter	S30	180	130.789	0.339	131.3	0.4851	0.0000	OK
60 minute winter	S31	180	130.788	0.538	131.0	0.7703	0.0000	SURCHARGED
60 minute winter	S32	180	130.788	0.638	128.8	1.1274	0.0000	SURCHARGED
60 minute winter	S33	182	130.788	0.788	260.3	386.9487	0.0000	SURCHARGED
60 minute winter	S34	182	130.788	0.828	4.5	4.7403	0.0000	SURCHARGED
60 minute winter	H8205	39	130.716	1.266	228.2	1.8116	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	H6808	1.000	H7801	8.4	0.830	0.152	0.2219	
60 minute winter	H7801	1.001	H7907	24.0	1.680	0.254	0.3364	
60 minute winter	H7907	1.002	H7908	50.3	2.718	0.400	1.0193	
60 minute winter	H7908	1.003	H7905	62.0	2.916	0.459	0.2922	
60 minute winter	H7905	1.004	H7906	73.4	3.131	0.543	0.5211	
60 minute winter	H7906	1.005	H8001	87.6	2.876	0.672	1.4753	
60 minute winter	H8001	1.006	H8002	111.2	3.079	1.008	1.8212	
60 minute winter	H8002	1.007	H8105	134.6	2.152	0.766	2.8710	
60 minute winter	H8105	1.008	H8103	147.5	2.095	1.093	2.4415	
60 minute winter	H8103	1.009	H8104	146.4	1.900	0.504	1.7911	
60 minute winter	H8104	1.010	H8207	176.2	1.949	0.837	8.8835	
60 minute winter	H8207	1.011	H8206	196.8	1.983	0.820	3.2609	
60 minute winter	H8206	1.012	H8205	214.2	2.043	0.886	2.3452	
60 minute winter	S21	2.000	S22	52.5	1.320	0.871	1.6311	
60 minute winter	S22	2.001	S23	65.9	1.658	1.449	0.8873	
60 minute winter	S23	2.002	S24	79.3	1.768	0.667	1.5980	
60 minute winter	S24	2.003	S25	86.5	1.592	0.638	1.9047	
60 minute winter	S25	2.004	S26	110.1	1.138	0.934	1.7319	
60 minute winter	S26	2.005	S27	125.2	1.571	0.979	0.5352	
60 minute winter	S27	2.006	S33	121.7	1.543	0.228	6.9817	
60 minute winter	S28	3.000	S29	44.4	0.828	0.387	1.3931	
60 minute winter	S29	3.001	S30	131.3	1.874	1.047	1.0822	
60 minute winter	S30	3.002	S31	131.0	1.364	0.992	4.9069	
60 minute winter	S31	3.003	S32	128.8	1.633	0.866	1.9859	
60 minute winter	S32	3.004	S33	125.1	1.632	0.211	5.6919	
60 minute winter	S33	2.007	S34	4.5	0.625	0.113	0.2706	
60 minute winter	S34	2.008	H8205	5.5	0.488	0.138	0.7362	
60 minute winter	H8205	1.013	H8204	224.2	2.203	0.851	1.9159	

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Results for 100 year +45% CC 60 minute winter. 2940 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
60 minute winter	H8204	39	130.428	1.278	224.2	1.8283	0.0000	SURCHARGED
60 minute winter	S7202	40	131.669	1.669	509.0	2.3880	0.0000	SURCHARGED
60 minute winter	S8208	40	130.749	1.319	509.2	1.8879	0.0000	SURCHARGED
60 minute winter	S8201	39	130.161	1.351	738.5	1.9331	0.0000	SURCHARGED
60 minute winter	S8203	39	128.581	0.561	738.2	0.8022	0.0000	SURCHARGED
60 minute winter	S7324	38	128.212	0.412	746.7	0.0000	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	H8204	1.014	S8201	221.8	2.011	0.745	1.7007	
60 minute winter	S7202	4.000	S8208	509.2	3.214	1.062	4.1206	
60 minute winter	S8208	4.001	S8201	509.9	3.219	0.726	2.0946	
60 minute winter	S8201	1.015	S8203	738.2	4.660	1.127	3.0698	
60 minute winter	S8203	1.016	S7324	746.7	2.412	1.016	5.2952	1804.0

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Results for 100 year +45% CC 120 minute summer. 3000 minute analysis at 2 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
120 minute summer	H6808	64	145.045	0.058	8.0	0.0823	0.0000	OK
120 minute summer	H7801	64	144.816	0.075	23.0	0.1074	0.0000	OK
120 minute summer	H7907	64	144.062	0.094	46.6	0.1351	0.0000	OK
120 minute summer	H7908	64	140.895	0.109	57.1	0.1557	0.0000	OK
120 minute summer	H7905	64	139.986	0.117	67.3	0.1667	0.0000	OK
120 minute summer	H7906	64	138.511	0.127	80.4	0.1816	0.0000	OK
120 minute summer	H8001	64	135.522	0.179	101.2	0.2562	0.0000	OK
120 minute summer	H8002	64	133.310	0.183	123.3	0.2619	0.0000	OK
120 minute summer	H8105	66	132.287	0.286	135.9	0.4092	0.0000	OK
120 minute summer	H8103	66	131.621	0.205	133.8	0.2930	0.0000	OK
120 minute summer	H8104	68	131.346	0.271	171.3	0.3882	0.0000	OK
120 minute summer	H8207	68	130.885	0.701	200.1	1.0035	0.0000	SURCHARGED
120 minute summer	H8206	68	130.573	0.813	202.3	1.1630	0.0000	SURCHARGED
120 minute summer	S21	64	132.156	0.156	47.0	0.2232	0.0000	OK
120 minute summer	S22	64	131.806	0.356	58.9	0.5092	0.0000	SURCHARGED
120 minute summer	S23	64	131.376	0.176	70.7	0.2512	0.0000	OK
120 minute summer	S24	64	130.962	0.162	77.0	0.2317	0.0000	OK
120 minute summer	S25	252	130.935	0.710	101.7	1.0159	0.0000	SURCHARGED
120 minute summer	S26	250	130.940	0.770	113.9	1.1017	0.0000	SURCHARGED
120 minute summer	S27	246	130.941	0.791	113.0	1.1321	0.0000	SURCHARGED
120 minute summer	S28	64	131.145	0.120	39.2	0.1711	0.0000	OK
120 minute summer	S29	64	130.991	0.266	115.9	0.3809	0.0000	OK
120 minute summer	S30	232	130.934	0.484	115.9	0.6930	0.0000	SURCHARGED
120 minute summer	S31	238	130.934	0.684	115.7	0.9789	0.0000	SURCHARGED
120 minute summer	S32	238	130.934	0.784	113.1	1.3853	0.0000	SURCHARGED
120 minute summer	S33	242	130.934	0.934	233.6	475.8083	0.0000	SURCHARGED
120 minute summer	S34	242	130.934	0.974	4.0	5.5763	0.0000	SURCHARGED
120 minute summer	H8205	68	130.287	0.837	212.1	1.1972	0.0000	SURCHARGED

Link Event	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute summer	H6808	1.000	H7801	8.0	0.818	0.145	0.2145	
120 minute summer	H7801	1.001	H7907	22.9	1.872	0.242	0.3211	
120 minute summer	H7907	1.002	H7908	46.6	2.679	0.371	0.9579	
120 minute summer	H7908	1.003	H7905	57.0	2.871	0.422	0.2730	
120 minute summer	H7905	1.004	H7906	67.3	3.074	0.498	0.4869	
120 minute summer	H7906	1.005	H8001	80.4	2.807	0.616	1.3902	
120 minute summer	H8001	1.006	H8002	101.0	3.075	0.916	1.5769	
120 minute summer	H8002	1.007	H8105	123.2	2.151	0.701	2.5831	
120 minute summer	H8105	1.008	H8103	133.8	2.096	0.991	2.3687	
120 minute summer	H8103	1.009	H8104	133.8	1.902	0.460	1.1921	
120 minute summer	H8104	1.010	H8207	173.6	1.947	0.825	7.8800	
120 minute summer	H8207	1.011	H8206	183.6	1.976	0.766	3.2609	
120 minute summer	H8206	1.012	H8205	197.5	2.031	0.816	2.3452	
120 minute summer	S21	2.000	S22	46.9	1.248	0.778	1.4177	
120 minute summer	S22	2.001	S23	58.7	1.478	1.290	0.8761	
120 minute summer	S23	2.002	S24	70.6	1.730	0.593	1.4257	
120 minute summer	S24	2.003	S25	78.4	1.599	0.578	1.8262	
120 minute summer	S25	2.004	S26	99.1	1.004	0.841	1.7319	
120 minute summer	S26	2.005	S27	113.0	1.399	0.883	0.5352	
120 minute summer	S27	2.006	S33	109.1	1.288	0.204	6.9817	
120 minute summer	S28	3.000	S29	39.2	0.825	0.341	1.2970	
120 minute summer	S29	3.001	S30	115.9	1.882	0.924	0.9674	
120 minute summer	S30	3.002	S31	115.7	1.264	0.877	5.0310	
120 minute summer	S31	3.003	S32	113.1	1.479	0.761	1.9859	
120 minute summer	S32	3.004	S33	108.8	1.364	0.184	5.6919	
120 minute summer	S33	2.007	S34	4.0	0.514	0.101	0.2706	
120 minute summer	S34	2.008	H8205	2.7	0.494	0.068	0.7362	
120 minute summer	H8205	1.013	H8204	208.1	2.182	0.790	1.9159	

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Results for 100 year +45% CC 120 minute summer. 3000 minute analysis at 2 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
120 minute summer	H8204	68	130.007	0.857	208.1	1.2266	0.0000	SURCHARGED
120 minute summer	S7202	70	130.923	0.923	450.2	1.3213	0.0000	SURCHARGED
120 minute summer	S8208	70	130.204	0.774	450.4	1.1072	0.0000	SURCHARGED
120 minute summer	S8201	68	129.750	0.940	672.1	1.3445	0.0000	SURCHARGED
120 minute summer	S8203	68	128.431	0.411	671.7	0.5880	0.0000	OK
120 minute summer	S7324	68	128.129	0.329	671.3	0.0000	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	H8204	1.014	S8201	207.1	2.066	0.695	1.7007	
120 minute summer	S7202	4.000	S8208	450.4	3.134	0.939	4.1206	
120 minute summer	S8208	4.001	S8201	450.8	3.084	0.642	2.0946	
120 minute summer	S8201	1.015	S8203	671.7	4.241	1.026	3.0053	
120 minute summer	S8203	1.016	S7324	671.3	2.410	0.913	4.7038	2218.8

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Results for 100 year +45% CC 120 minute winter. 3000 minute analysis at 2 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
120 minute winter	H6808	68	145.036	0.049	5.8	0.0702	0.0000	OK
120 minute winter	H7801	118	144.806	0.065	16.9	0.0934	0.0000	OK
120 minute winter	H7907	64	144.047	0.079	33.5	0.1129	0.0000	OK
120 minute winter	H7908	64	140.875	0.089	40.9	0.1276	0.0000	OK
120 minute winter	H7905	64	139.964	0.095	48.2	0.1362	0.0000	OK
120 minute winter	H7906	64	138.488	0.104	57.4	0.1486	0.0000	OK
120 minute winter	H8001	64	135.480	0.137	72.1	0.1962	0.0000	OK
120 minute winter	H8002	64	133.275	0.148	87.5	0.2119	0.0000	OK
120 minute winter	H8105	64	132.201	0.200	96.3	0.2856	0.0000	OK
120 minute winter	H8103	64	131.578	0.162	96.0	0.2321	0.0000	OK
120 minute winter	H8104	64	131.282	0.206	121.8	0.2955	0.0000	OK
120 minute winter	H8207	64	130.405	0.221	139.8	0.3167	0.0000	OK
120 minute winter	H8206	64	130.003	0.243	152.4	0.3476	0.0000	OK
120 minute winter	S21	64	132.117	0.117	32.4	0.1667	0.0000	OK
120 minute winter	S22	64	131.629	0.178	40.7	0.2554	0.0000	OK
120 minute winter	S23	64	131.340	0.140	49.0	0.2003	0.0000	OK
120 minute winter	S24	64	130.929	0.129	53.4	0.1852	0.0000	OK
120 minute winter	S25	240	130.924	0.699	69.5	1.0000	0.0000	SURCHARGED
120 minute winter	S26	238	130.930	0.759	77.5	1.0868	0.0000	SURCHARGED
120 minute winter	S27	234	130.930	0.780	76.4	1.1161	0.0000	SURCHARGED
120 minute winter	S28	64	131.123	0.098	27.0	0.1403	0.0000	OK
120 minute winter	S29	230	130.923	0.198	79.8	0.2836	0.0000	OK
120 minute winter	S30	230	130.923	0.473	79.8	0.6770	0.0000	SURCHARGED
120 minute winter	S31	230	130.923	0.673	80.1	0.9632	0.0000	SURCHARGED
120 minute winter	S32	230	130.923	0.773	77.1	1.3660	0.0000	SURCHARGED
120 minute winter	S33	228	130.923	0.923	158.3	468.9580	0.0000	SURCHARGED
120 minute winter	S34	228	130.923	0.963	3.2	5.5137	0.0000	SURCHARGED
120 minute winter	H8205	64	129.695	0.245	162.7	0.3510	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	H6808	1.000	H7801	5.8	0.745	0.105	0.1717	
120 minute winter	H7801	1.001	H7907	16.9	1.764	0.178	0.2543	
120 minute winter	H7907	1.002	H7908	33.4	2.475	0.266	0.7439	
120 minute winter	H7908	1.003	H7905	40.9	2.673	0.302	0.2101	
120 minute winter	H7905	1.004	H7906	48.1	2.844	0.356	0.3763	
120 minute winter	H7906	1.005	H8001	57.4	2.653	0.440	1.0549	
120 minute winter	H8001	1.006	H8002	71.9	2.910	0.652	1.1876	
120 minute winter	H8002	1.007	H8105	87.5	2.067	0.498	1.9113	
120 minute winter	H8105	1.008	H8103	96.0	2.017	0.711	1.6512	
120 minute winter	H8103	1.009	H8104	96.0	1.785	0.331	0.8752	
120 minute winter	H8104	1.010	H8207	121.5	1.874	0.577	5.2288	
120 minute winter	H8207	1.011	H8206	139.6	1.951	0.582	2.1166	
120 minute winter	H8206	1.012	H8205	152.4	2.008	0.630	1.6146	
120 minute winter	S21	2.000	S22	32.4	1.180	0.538	1.1181	
120 minute winter	S22	2.001	S23	40.7	1.256	0.894	0.7373	
120 minute winter	S23	2.002	S24	49.0	1.599	0.412	1.0710	
120 minute winter	S24	2.003	S25	53.4	1.605	0.394	1.6597	
120 minute winter	S25	2.004	S26	67.3	0.957	0.571	1.7319	
120 minute winter	S26	2.005	S27	76.4	1.371	0.597	0.5352	
120 minute winter	S27	2.006	S33	73.7	1.295	0.138	6.9817	
120 minute winter	S28	3.000	S29	27.0	0.792	0.235	0.9598	
120 minute winter	S29	3.001	S30	79.8	1.773	0.636	0.9427	
120 minute winter	S30	3.002	S31	80.1	1.178	0.607	5.0310	
120 minute winter	S31	3.003	S32	77.1	1.445	0.519	1.9859	
120 minute winter	S32	3.004	S33	73.9	1.374	0.125	5.6919	
120 minute winter	S33	2.007	S34	3.2	0.528	0.081	0.2706	
120 minute winter	S34	2.008	H8205	1.6	0.493	0.041	0.0608	
120 minute winter	H8205	1.013	H8204	162.7	2.169	0.618	1.3082	

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Results for 100 year +45% CC 120 minute winter. 3000 minute analysis at 2 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
120 minute winter	H8204	64	129.389	0.239	162.7	0.3426	0.0000	OK
120 minute winter	S7202	70	130.339	0.339	362.1	0.4845	0.0000	OK
120 minute winter	S8208	70	129.712	0.282	362.0	0.4032	0.0000	OK
120 minute winter	S8201	68	129.204	0.394	537.0	0.5644	0.0000	OK
120 minute winter	S8203	68	128.355	0.335	536.8	0.4790	0.0000	OK
120 minute winter	S7324	68	128.079	0.279	536.7	0.0000	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	H8204	1.014	S8201	162.8	1.959	0.547	1.4229	
120 minute winter	S7202	4.000	S8208	362.0	3.109	0.755	3.0217	
120 minute winter	S8208	4.001	S8201	361.9	2.937	0.515	1.6597	
120 minute winter	S8201	1.015	S8203	536.8	3.903	0.820	2.6517	
120 minute winter	S8203	1.016	S7324	536.7	2.330	0.730	3.9176	2159.8

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Results for 100 year +45% CC 180 minute summer. 3060 minute analysis at 4 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
180 minute summer	H6808	160	145.040	0.053	6.7	0.0754	0.0000	OK
180 minute summer	H7801	164	144.816	0.075	21.4	0.1076	0.0000	OK
180 minute summer	H7907	96	144.052	0.084	37.6	0.1202	0.0000	OK
180 minute summer	H7908	96	140.881	0.095	45.8	0.1363	0.0000	OK
180 minute summer	H7905	96	139.971	0.102	53.7	0.1453	0.0000	OK
180 minute summer	H7906	96	138.495	0.111	64.1	0.1584	0.0000	OK
180 minute summer	H8001	96	135.491	0.148	80.4	0.2119	0.0000	OK
180 minute summer	H8002	96	133.285	0.158	97.4	0.2258	0.0000	OK
180 minute summer	H8105	96	132.217	0.216	106.7	0.3093	0.0000	OK
180 minute summer	H8103	96	131.590	0.174	106.5	0.2484	0.0000	OK
180 minute summer	H8104	96	131.295	0.220	134.3	0.3148	0.0000	OK
180 minute summer	H8207	96	130.421	0.237	153.8	0.3395	0.0000	OK
180 minute summer	H8206	96	130.021	0.261	167.5	0.3740	0.0000	OK
180 minute summer	S21	96	132.122	0.122	34.9	0.1744	0.0000	OK
180 minute summer	S22	96	131.644	0.194	43.8	0.2774	0.0000	OK
180 minute summer	S23	96	131.346	0.146	52.7	0.2092	0.0000	OK
180 minute summer	S24	296	131.021	0.221	57.4	0.3161	0.0000	OK
180 minute summer	S25	300	131.021	0.796	74.7	1.1396	0.0000	SURCHARGED
180 minute summer	S26	308	131.027	0.857	84.6	1.2258	0.0000	SURCHARGED
180 minute summer	S27	292	131.026	0.876	84.2	1.2541	0.0000	SURCHARGED
180 minute summer	S28	96	131.127	0.102	29.1	0.1459	0.0000	OK
180 minute summer	S29	280	131.021	0.296	86.0	0.4238	0.0000	OK
180 minute summer	S30	280	131.021	0.571	86.0	0.8171	0.0000	SURCHARGED
180 minute summer	S31	280	131.021	0.771	85.6	1.1029	0.0000	SURCHARGED
180 minute summer	S32	280	131.021	0.871	81.8	1.5384	0.0000	SURCHARGED
180 minute summer	S33	280	131.021	1.021	174.3	531.2267	0.0000	SURCHARGED
180 minute summer	S34	280	131.020	1.060	3.2	6.0721	0.0000	SURCHARGED
180 minute summer	H8205	96	129.714	0.264	178.4	0.3771	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	H6808	1.000	H7801	6.7	0.767	0.122	0.2046	
180 minute summer	H7801	1.001	H7907	21.4	1.894	0.226	0.2790	
180 minute summer	H7907	1.002	H7908	37.6	2.553	0.299	0.8115	
180 minute summer	H7908	1.003	H7905	45.7	2.743	0.339	0.2290	
180 minute summer	H7905	1.004	H7906	53.7	2.920	0.397	0.4090	
180 minute summer	H7906	1.005	H8001	64.1	2.713	0.491	1.1502	
180 minute summer	H8001	1.006	H8002	80.3	2.975	0.728	1.2969	
180 minute summer	H8002	1.007	H8105	97.3	2.109	0.554	2.0805	
180 minute summer	H8105	1.008	H8103	106.5	2.052	0.789	1.7982	
180 minute summer	H8103	1.009	H8104	106.5	1.819	0.366	0.9503	
180 minute summer	H8104	1.010	H8207	134.1	1.907	0.637	5.6637	
180 minute summer	H8207	1.011	H8206	153.6	1.975	0.640	2.2982	
180 minute summer	H8206	1.012	H8205	167.4	2.032	0.692	1.7516	
180 minute summer	S21	2.000	S22	34.9	1.196	0.579	1.1964	
180 minute summer	S22	2.001	S23	43.8	1.259	0.963	0.7910	
180 minute summer	S23	2.002	S24	52.7	1.628	0.443	1.1315	
180 minute summer	S24	2.003	S25	57.4	1.526	0.423	2.1218	
180 minute summer	S25	2.004	S26	73.6	0.844	0.625	1.7319	
180 minute summer	S26	2.005	S27	84.2	1.187	0.658	0.5352	
180 minute summer	S27	2.006	S33	82.1	1.179	0.154	6.9817	
180 minute summer	S28	3.000	S29	29.1	0.803	0.253	1.0180	
180 minute summer	S29	3.001	S30	86.0	1.800	0.686	1.1069	
180 minute summer	S30	3.002	S31	85.6	1.134	0.649	5.0310	
180 minute summer	S31	3.003	S32	81.8	1.266	0.550	1.9859	
180 minute summer	S32	3.004	S33	79.5	1.256	0.134	5.6919	
180 minute summer	S33	2.007	S34	3.2	0.467	0.081	0.2706	
180 minute summer	S34	2.008	H8205	1.7	0.500	0.042	0.0628	
180 minute summer	H8205	1.013	H8204	178.3	2.180	0.677	1.4203	

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Results for 100 year +45% CC 180 minute summer. 3060 minute analysis at 4 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
180 minute summer	H8204	96	129.408	0.258	178.3	0.3689	0.0000	OK
180 minute summer	S7202	100	130.348	0.348	373.3	0.4973	0.0000	OK
180 minute summer	S8208	100	129.722	0.292	373.0	0.4172	0.0000	OK
180 minute summer	S8201	100	129.231	0.421	558.2	0.6018	0.0000	OK
180 minute summer	S8203	100	128.365	0.345	558.3	0.4941	0.0000	OK
180 minute summer	S7324	100	128.087	0.287	558.7	0.0000	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	H8204	1.014	S8201	177.7	1.994	0.597	1.4731	
180 minute summer	S7202	4.000	S8208	373.0	3.113	0.778	3.1209	
180 minute summer	S8208	4.001	S8201	372.9	2.944	0.531	1.7366	
180 minute summer	S8201	1.015	S8203	558.3	3.901	0.852	2.7573	
180 minute summer	S8203	1.016	S7324	558.7	2.348	0.760	4.0440	2470.8

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Results for 100 year +45% CC 180 minute winter. 3060 minute analysis at 4 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
180 minute winter	H6808	168	145.035	0.048	5.6	0.0690	0.0000	OK
180 minute winter	H7801	164	144.809	0.068	17.9	0.0975	0.0000	OK
180 minute winter	H7907	100	144.040	0.072	28.3	0.1034	0.0000	OK
180 minute winter	H7908	96	140.866	0.080	34.1	0.1150	0.0000	OK
180 minute winter	H7905	96	139.955	0.085	39.9	0.1223	0.0000	OK
180 minute winter	H7906	96	138.477	0.093	47.5	0.1336	0.0000	OK
180 minute winter	H8001	96	135.464	0.121	59.4	0.1730	0.0000	OK
180 minute winter	H8002	96	133.259	0.132	71.6	0.1888	0.0000	OK
180 minute winter	H8105	96	132.174	0.173	78.0	0.2470	0.0000	OK
180 minute winter	H8103	96	131.558	0.142	77.8	0.2032	0.0000	OK
180 minute winter	H8104	96	131.255	0.180	96.8	0.2572	0.0000	OK
180 minute winter	H8207	96	130.373	0.189	110.2	0.2703	0.0000	OK
180 minute winter	H8206	96	129.965	0.205	119.6	0.2932	0.0000	OK
180 minute winter	S21	96	132.098	0.098	24.0	0.1402	0.0000	OK
180 minute winter	S22	96	131.591	0.141	30.1	0.2021	0.0000	OK
180 minute winter	S23	96	131.318	0.118	36.2	0.1683	0.0000	OK
180 minute winter	S24	272	131.010	0.210	39.4	0.3008	0.0000	OK
180 minute winter	S25	280	131.011	0.786	51.3	1.1243	0.0000	SURCHARGED
180 minute winter	S26	276	131.017	0.847	57.4	1.2124	0.0000	SURCHARGED
180 minute winter	S27	316	131.015	0.865	57.0	1.2372	0.0000	SURCHARGED
180 minute winter	S28	96	131.109	0.084	20.0	0.1202	0.0000	OK
180 minute winter	S29	268	131.010	0.285	59.1	0.4082	0.0000	OK
180 minute winter	S30	268	131.010	0.560	59.1	0.8017	0.0000	SURCHARGED
180 minute winter	S31	268	131.010	0.760	59.1	1.0878	0.0000	SURCHARGED
180 minute winter	S32	268	131.010	0.860	56.6	1.5198	0.0000	SURCHARGED
180 minute winter	S33	268	131.010	1.010	119.5	524.4096	0.0000	SURCHARGED
180 minute winter	S34	268	131.010	1.050	2.7	6.0121	0.0000	SURCHARGED
180 minute winter	H8205	96	129.657	0.207	127.5	0.2955	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	H6808	1.000	H7801	5.6	0.720	0.102	0.1791	
180 minute winter	H7801	1.001	H7907	17.9	1.797	0.189	0.2336	
180 minute winter	H7907	1.002	H7908	28.3	2.388	0.225	0.6526	
180 minute winter	H7908	1.003	H7905	34.0	2.568	0.252	0.1822	
180 minute winter	H7905	1.004	H7906	39.9	2.717	0.295	0.3266	
180 minute winter	H7906	1.005	H8001	47.4	2.546	0.363	0.9101	
180 minute winter	H8001	1.006	H8002	59.3	2.788	0.538	1.0217	
180 minute winter	H8002	1.007	H8105	71.5	1.992	0.407	1.6250	
180 minute winter	H8105	1.008	H8103	77.8	1.930	0.576	1.3972	
180 minute winter	H8103	1.009	H8104	77.7	1.725	0.268	0.7339	
180 minute winter	H8104	1.010	H8207	96.7	1.794	0.459	4.3397	
180 minute winter	H8207	1.011	H8206	110.0	1.878	0.458	1.7318	
180 minute winter	H8206	1.012	H8205	119.5	1.931	0.494	1.3155	
180 minute winter	S21	2.000	S22	24.0	1.122	0.398	0.8779	
180 minute winter	S22	2.001	S23	30.1	1.192	0.662	0.5751	
180 minute winter	S23	2.002	S24	36.2	1.481	0.304	0.9220	
180 minute winter	S24	2.003	S25	39.4	1.510	0.291	2.0734	
180 minute winter	S25	2.004	S26	49.8	0.845	0.422	1.7319	
180 minute winter	S26	2.005	S27	57.0	1.173	0.445	0.5352	
180 minute winter	S27	2.006	S33	55.3	1.175	0.103	6.9817	
180 minute winter	S28	3.000	S29	20.0	0.748	0.174	0.9724	
180 minute winter	S29	3.001	S30	59.1	1.661	0.471	1.0984	
180 minute winter	S30	3.002	S31	59.1	1.064	0.448	5.0310	
180 minute winter	S31	3.003	S32	56.6	1.243	0.380	1.9859	
180 minute winter	S32	3.004	S33	54.8	1.237	0.093	5.6919	
180 minute winter	S33	2.007	S34	2.7	0.447	0.068	0.2706	
180 minute winter	S34	2.008	H8205	1.7	0.499	0.042	0.0626	
180 minute winter	H8205	1.013	H8204	127.4	2.080	0.484	1.0642	

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Results for 100 year +45% CC 180 minute winter. 3060 minute analysis at 4 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
180 minute winter	H8204	96	129.352	0.202	127.4	0.2885	0.0000	OK
180 minute winter	S7202	100	130.279	0.279	279.9	0.3998	0.0000	OK
180 minute winter	S8208	100	129.660	0.230	279.8	0.3286	0.0000	OK
180 minute winter	S8201	100	129.122	0.312	420.0	0.4466	0.0000	OK
180 minute winter	S8203	100	128.300	0.280	420.0	0.4012	0.0000	OK
180 minute winter	S7324	100	128.039	0.239	420.0	0.0000	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	H8204	1.014	S8201	127.3	1.904	0.427	1.2194	
180 minute winter	S7202	4.000	S8208	279.8	3.027	0.583	2.4017	
180 minute winter	S8208	4.001	S8201	279.7	2.817	0.398	1.3129	
180 minute winter	S8201	1.015	S8203	420.0	3.796	0.641	2.1422	
180 minute winter	S8203	1.016	S7324	420.0	2.217	0.571	3.2278	2408.2

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Results for 100 year +45% CC 240 minute summer. 3120 minute analysis at 4 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
240 minute summer	H6808	192	145.040	0.053	6.7	0.0754	0.0000	OK
240 minute summer	H7801	192	144.816	0.075	21.4	0.1076	0.0000	OK
240 minute summer	H7907	124	144.046	0.078	32.9	0.1117	0.0000	OK
240 minute summer	H7908	124	140.874	0.088	39.7	0.1253	0.0000	OK
240 minute summer	H7905	124	139.962	0.093	46.6	0.1336	0.0000	OK
240 minute summer	H7906	124	138.486	0.102	55.4	0.1454	0.0000	OK
240 minute summer	H8001	124	135.476	0.133	69.4	0.1907	0.0000	OK
240 minute summer	H8002	124	133.271	0.144	83.6	0.2061	0.0000	OK
240 minute summer	H8105	124	132.193	0.192	91.3	0.2741	0.0000	OK
240 minute summer	H8103	124	131.572	0.156	90.5	0.2235	0.0000	OK
240 minute summer	H8104	124	131.273	0.198	113.9	0.2831	0.0000	OK
240 minute summer	H8207	124	130.394	0.210	129.7	0.3000	0.0000	OK
240 minute summer	H8206	124	129.989	0.229	140.4	0.3270	0.0000	OK
240 minute summer	S21	124	132.110	0.110	29.4	0.1571	0.0000	OK
240 minute summer	S22	124	131.613	0.162	36.8	0.2325	0.0000	OK
240 minute summer	S23	124	131.331	0.131	43.9	0.1877	0.0000	OK
240 minute summer	S24	324	131.086	0.286	47.8	0.4098	0.0000	OK
240 minute summer	S25	336	131.087	0.862	62.1	1.2333	0.0000	SURCHARGED
240 minute summer	S26	356	131.091	0.921	69.6	1.3178	0.0000	SURCHARGED
240 minute summer	S27	336	131.092	0.942	69.2	1.3481	0.0000	SURCHARGED
240 minute summer	S28	124	131.118	0.093	24.6	0.1335	0.0000	OK
240 minute summer	S29	320	131.087	0.362	72.5	0.5184	0.0000	SURCHARGED
240 minute summer	S30	320	131.087	0.637	72.1	0.9116	0.0000	SURCHARGED
240 minute summer	S31	320	131.087	0.837	71.5	1.1971	0.0000	SURCHARGED
240 minute summer	S32	320	131.086	0.936	68.3	1.6545	0.0000	SURCHARGED
240 minute summer	S33	324	131.086	1.086	144.3	574.6804	0.0000	SURCHARGED
240 minute summer	S34	324	131.086	1.126	2.8	6.4484	0.0000	SURCHARGED
240 minute summer	H8205	124	129.680	0.230	149.3	0.3298	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	H6808	1.000	H7801	6.7	0.742	0.121	0.2045	
240 minute summer	H7801	1.001	H7907	21.4	1.895	0.226	0.2649	
240 minute summer	H7907	1.002	H7908	32.7	2.472	0.261	0.7296	
240 minute summer	H7908	1.003	H7905	39.6	2.654	0.293	0.2049	
240 minute summer	H7905	1.004	H7906	46.5	2.822	0.344	0.3662	
240 minute summer	H7906	1.005	H8001	55.2	2.635	0.423	1.0220	
240 minute summer	H8001	1.006	H8002	68.9	2.883	0.625	1.1482	
240 minute summer	H8002	1.007	H8105	83.3	2.057	0.474	1.8321	
240 minute summer	H8105	1.008	H8103	90.5	1.992	0.671	1.5762	
240 minute summer	H8103	1.009	H8104	90.4	1.775	0.311	0.8311	
240 minute summer	H8104	1.010	H8207	113.1	1.852	0.537	4.9246	
240 minute summer	H8207	1.011	H8206	128.7	1.931	0.537	1.9756	
240 minute summer	H8206	1.012	H8205	140.1	1.985	0.579	1.5024	
240 minute summer	S21	2.000	S22	29.3	1.166	0.486	1.0238	
240 minute summer	S22	2.001	S23	36.4	1.236	0.801	0.6710	
240 minute summer	S23	2.002	S24	43.8	1.554	0.368	1.2440	
240 minute summer	S24	2.003	S25	47.6	1.491	0.351	2.3522	
240 minute summer	S25	2.004	S26	60.4	0.744	0.512	1.7319	
240 minute summer	S26	2.005	S27	69.2	1.005	0.541	0.5352	
240 minute summer	S27	2.006	S33	67.0	1.113	0.125	6.9817	
240 minute summer	S28	3.000	S29	24.5	0.780	0.213	1.1396	
240 minute summer	S29	3.001	S30	72.1	1.735	0.575	1.1083	
240 minute summer	S30	3.002	S31	71.5	1.055	0.542	5.0310	
240 minute summer	S31	3.003	S32	68.3	1.076	0.459	1.9859	
240 minute summer	S32	3.004	S33	66.3	1.182	0.112	5.6919	
240 minute summer	S33	2.007	S34	2.8	0.435	0.071	0.2706	
240 minute summer	S34	2.008	H8205	1.7	0.504	0.044	0.0640	
240 minute summer	H8205	1.013	H8204	149.4	2.121	0.567	1.2275	

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Results for 100 year +45% CC 240 minute summer. 3120 minute analysis at 4 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
240 minute summer	H8204	124	129.379	0.229	149.4	0.3271	0.0000	OK
240 minute summer	S7202	132	130.306	0.306	317.9	0.4376	0.0000	OK
240 minute summer	S8208	132	129.683	0.253	317.9	0.3617	0.0000	OK
240 minute summer	S8201	128	129.162	0.352	483.2	0.5039	0.0000	OK
240 minute summer	S8203	128	128.329	0.309	483.0	0.4425	0.0000	OK
240 minute summer	S7324	128	128.061	0.261	482.8	0.0000	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	H8204	1.014	S8201	149.7	1.912	0.503	1.3675	
240 minute summer	S7202	4.000	S8208	317.9	3.076	0.663	2.6835	
240 minute summer	S8208	4.001	S8201	317.9	2.882	0.453	1.4855	
240 minute summer	S8201	1.015	S8203	483.0	3.869	0.737	2.4143	
240 minute summer	S8203	1.016	S7324	482.8	2.282	0.657	3.6019	2674.3

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Results for 100 year +45% CC 240 minute winter. 3120 minute analysis at 4 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
240 minute winter	H6808	188	145.035	0.048	5.6	0.0689	0.0000	OK
240 minute winter	H7801	196	144.809	0.068	17.8	0.0973	0.0000	OK
240 minute winter	H7907	136	144.037	0.069	25.8	0.0985	0.0000	OK
240 minute winter	H7908	132	140.862	0.076	30.7	0.1086	0.0000	OK
240 minute winter	H7905	132	139.949	0.080	35.6	0.1149	0.0000	OK
240 minute winter	H7906	132	138.472	0.088	42.2	0.1254	0.0000	OK
240 minute winter	H8001	132	135.456	0.113	52.7	0.1610	0.0000	OK
240 minute winter	H8002	132	133.250	0.123	63.0	0.1761	0.0000	OK
240 minute winter	H8105	132	132.159	0.158	68.1	0.2266	0.0000	OK
240 minute winter	H8103	132	131.547	0.131	68.1	0.1875	0.0000	OK
240 minute winter	H8104	128	131.240	0.165	83.4	0.2360	0.0000	OK
240 minute winter	H8207	128	130.355	0.171	94.2	0.2453	0.0000	OK
240 minute winter	H8206	128	129.945	0.185	101.8	0.2642	0.0000	OK
240 minute winter	S21	124	132.088	0.088	19.6	0.1254	0.0000	OK
240 minute winter	S22	124	131.574	0.123	24.6	0.1767	0.0000	OK
240 minute winter	S23	124	131.305	0.105	29.5	0.1502	0.0000	OK
240 minute winter	S24	312	131.076	0.276	32.1	0.3946	0.0000	OK
240 minute winter	S25	324	131.076	0.851	41.8	1.2181	0.0000	SURCHARGED
240 minute winter	S26	332	131.081	0.911	46.9	1.3033	0.0000	SURCHARGED
240 minute winter	S27	324	131.082	0.932	46.7	1.3331	0.0000	SURCHARGED
240 minute winter	S28	124	131.101	0.076	16.3	0.1083	0.0000	OK
240 minute winter	S29	316	131.076	0.351	48.2	0.5023	0.0000	SURCHARGED
240 minute winter	S30	316	131.076	0.626	48.1	0.8957	0.0000	SURCHARGED
240 minute winter	S31	316	131.076	0.826	48.1	1.1816	0.0000	SURCHARGED
240 minute winter	S32	316	131.076	0.926	46.1	1.6356	0.0000	SURCHARGED
240 minute winter	S33	316	131.076	1.076	98.0	567.5221	0.0000	SURCHARGED
240 minute winter	S34	316	131.076	1.115	2.4	6.3871	0.0000	SURCHARGED
240 minute winter	H8205	128	129.636	0.186	108.5	0.2662	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	H6808	1.000	H7801	5.6	0.700	0.102	0.1787	
240 minute winter	H7801	1.001	H7907	17.8	1.800	0.188	0.2320	
240 minute winter	H7907	1.002	H7908	25.8	2.346	0.205	0.6060	
240 minute winter	H7908	1.003	H7905	30.6	2.508	0.227	0.1679	
240 minute winter	H7905	1.004	H7906	35.6	2.642	0.264	0.3000	
240 minute winter	H7906	1.005	H8001	42.2	2.479	0.324	0.8331	
240 minute winter	H8001	1.006	H8002	52.7	2.713	0.478	0.9344	
240 minute winter	H8002	1.007	H8105	63.0	1.944	0.359	1.4694	
240 minute winter	H8105	1.008	H8103	68.1	1.874	0.504	1.2596	
240 minute winter	H8103	1.009	H8104	68.1	1.689	0.234	0.6565	
240 minute winter	H8104	1.010	H8207	83.3	1.742	0.396	3.8538	
240 minute winter	H8207	1.011	H8206	94.1	1.827	0.392	1.5234	
240 minute winter	H8206	1.012	H8205	101.8	1.876	0.421	1.1536	
240 minute winter	S21	2.000	S22	19.6	1.072	0.325	0.7503	
240 minute winter	S22	2.001	S23	24.5	1.139	0.539	0.4903	
240 minute winter	S23	2.002	S24	29.5	1.403	0.248	1.2099	
240 minute winter	S24	2.003	S25	32.1	1.447	0.236	2.3263	
240 minute winter	S25	2.004	S26	40.8	0.762	0.346	1.7319	
240 minute winter	S26	2.005	S27	46.7	1.061	0.365	0.5352	
240 minute winter	S27	2.006	S33	45.5	1.069	0.085	6.9817	
240 minute winter	S28	3.000	S29	16.3	0.729	0.142	1.1019	
240 minute winter	S29	3.001	S30	48.1	1.583	0.384	1.1083	
240 minute winter	S30	3.002	S31	48.1	1.014	0.364	5.0310	
240 minute winter	S31	3.003	S32	46.1	1.134	0.310	1.9859	
240 minute winter	S32	3.004	S33	44.8	1.128	0.076	5.6919	
240 minute winter	S33	2.007	S34	2.4	0.431	0.061	0.2706	
240 minute winter	S34	2.008	H8205	1.7	0.503	0.043	0.0638	
240 minute winter	H8205	1.013	H8204	108.5	2.051	0.412	0.9190	

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Results for 100 year +45% CC 240 minute winter. 3120 minute analysis at 4 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
240 minute winter	H8204	128	129.327	0.177	108.5	0.2539	0.0000	OK
240 minute winter	S7202	132	130.245	0.245	229.7	0.3509	0.0000	OK
240 minute winter	S8208	132	129.630	0.200	229.7	0.2862	0.0000	OK
240 minute winter	S8201	128	129.082	0.272	349.5	0.3890	0.0000	OK
240 minute winter	S8203	128	128.268	0.248	349.4	0.3551	0.0000	OK
240 minute winter	S7324	128	128.014	0.214	349.3	0.0000	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	H8204	1.014	S8201	108.5	1.831	0.364	1.0552	
240 minute winter	S7202	4.000	S8208	229.7	2.939	0.479	2.0327	
240 minute winter	S8208	4.001	S8201	229.7	2.733	0.327	1.1111	
240 minute winter	S8201	1.015	S8203	349.4	3.683	0.533	1.8377	
240 minute winter	S8203	1.016	S7324	349.3	2.129	0.475	2.7969	2612.3

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Results for 100 year +45% CC 360 minute summer. 3240 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	H6808	256	145.039	0.052	6.5	0.0743	0.0000	OK
360 minute summer	H7801	256	144.815	0.074	20.9	0.1062	0.0000	OK
360 minute summer	H7907	184	144.040	0.072	28.3	0.1033	0.0000	OK
360 minute summer	H7908	184	140.866	0.080	33.9	0.1145	0.0000	OK
360 minute summer	H7905	184	139.954	0.085	39.4	0.1215	0.0000	OK
360 minute summer	H7906	184	138.477	0.093	46.9	0.1325	0.0000	OK
360 minute summer	H8001	184	135.462	0.119	58.4	0.1708	0.0000	OK
360 minute summer	H8002	184	133.257	0.130	69.8	0.1861	0.0000	OK
360 minute summer	H8105	184	132.170	0.169	75.6	0.2414	0.0000	OK
360 minute summer	H8103	184	131.555	0.139	75.0	0.1988	0.0000	OK
360 minute summer	H8104	184	131.250	0.175	92.6	0.2504	0.0000	OK
360 minute summer	H8207	184	130.366	0.182	104.6	0.2611	0.0000	OK
360 minute summer	H8206	184	129.957	0.197	112.8	0.2818	0.0000	OK
360 minute summer	S21	184	132.094	0.094	22.3	0.1343	0.0000	OK
360 minute summer	S22	184	131.584	0.133	27.9	0.1910	0.0000	OK
360 minute summer	S23	184	131.312	0.112	33.3	0.1605	0.0000	OK
360 minute summer	S24	368	131.179	0.379	36.2	0.5422	0.0000	SURCHARGED
360 minute summer	S25	416	131.177	0.952	47.1	1.3628	0.0000	SURCHARGED
360 minute summer	S26	424	131.182	1.011	53.4	1.4474	0.0000	SURCHARGED
360 minute summer	S27	432	131.182	1.032	53.1	1.4766	0.0000	SURCHARGED
360 minute summer	S28	416	131.177	0.152	18.6	0.2181	0.0000	OK
360 minute summer	S29	416	131.177	0.452	55.0	0.6472	0.0000	SURCHARGED
360 minute summer	S30	416	131.177	0.727	54.7	1.0406	0.0000	SURCHARGED
360 minute summer	S31	408	131.177	0.927	52.6	1.3266	0.0000	SURCHARGED
360 minute summer	S32	408	131.177	1.027	51.4	1.8148	0.0000	SURCHARGED
360 minute summer	S33	408	131.177	1.177	111.4	636.6857	0.0000	SURCHARGED
360 minute summer	S34	408	131.177	1.217	2.5	6.9681	0.0000	SURCHARGED
360 minute summer	H8205	184	129.648	0.198	119.9	0.2836	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	H6808	1.000	H7801	6.5	0.717	0.118	0.2006	
360 minute summer	H7801	1.001	H7907	20.9	1.880	0.221	0.2608	
360 minute summer	H7907	1.002	H7908	28.2	2.435	0.224	0.6501	
360 minute summer	H7908	1.003	H7905	33.7	2.563	0.250	0.1809	
360 minute summer	H7905	1.004	H7906	39.4	2.708	0.291	0.3233	
360 minute summer	H7906	1.005	H8001	46.7	2.543	0.358	0.8973	
360 minute summer	H8001	1.006	H8002	58.0	2.773	0.526	1.0051	
360 minute summer	H8002	1.007	H8105	69.6	1.988	0.396	1.5857	
360 minute summer	H8105	1.008	H8103	75.0	1.913	0.556	1.3586	
360 minute summer	H8103	1.009	H8104	74.9	1.716	0.258	0.7102	
360 minute summer	H8104	1.010	H8207	92.0	1.778	0.437	4.1702	
360 minute summer	H8207	1.011	H8206	103.9	1.859	0.433	1.6521	
360 minute summer	H8206	1.012	H8205	112.3	1.910	0.464	1.2510	
360 minute summer	S21	2.000	S22	22.2	1.105	0.368	0.8241	
360 minute summer	S22	2.001	S23	27.6	1.170	0.607	0.5380	
360 minute summer	S23	2.002	S24	33.2	1.448	0.279	1.3137	
360 minute summer	S24	2.003	S25	36.0	1.298	0.266	2.3710	
360 minute summer	S25	2.004	S26	46.3	0.631	0.393	1.7319	
360 minute summer	S26	2.005	S27	53.1	0.857	0.415	0.5352	
360 minute summer	S27	2.006	S33	51.7	1.042	0.097	6.9817	
360 minute summer	S28	3.000	S29	18.5	0.735	0.161	1.4950	
360 minute summer	S29	3.001	S30	54.7	1.631	0.436	1.1083	
360 minute summer	S30	3.002	S31	52.6	0.953	0.398	5.0310	
360 minute summer	S31	3.003	S32	51.4	0.905	0.346	1.9859	
360 minute summer	S32	3.004	S33	50.3	1.108	0.085	5.6919	
360 minute summer	S33	2.007	S34	2.5	0.372	0.063	0.2706	
360 minute summer	S34	2.008	H8205	1.8	0.509	0.045	0.0657	
360 minute summer	H8205	1.013	H8204	119.5	2.078	0.454	0.9991	

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Results for 100 year +45% CC 360 minute summer. 3240 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute summer	H8204	184	129.340	0.190	119.5	0.2717	0.0000	OK
360 minute summer	S7202	192	130.257	0.257	246.9	0.3676	0.0000	OK
360 minute summer	S8208	192	129.640	0.210	246.8	0.3006	0.0000	OK
360 minute summer	S8201	192	129.095	0.285	373.3	0.4081	0.0000	OK
360 minute summer	S8203	192	128.279	0.259	373.4	0.3707	0.0000	OK
360 minute summer	S7324	192	128.023	0.223	373.4	0.0000	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	H8204	1.014	S8201	119.2	1.890	0.400	1.1202	
360 minute summer	S7202	4.000	S8208	246.8	2.973	0.515	2.1587	
360 minute summer	S8208	4.001	S8201	246.7	2.761	0.351	1.1795	
360 minute summer	S8201	1.015	S8203	373.4	3.726	0.570	1.9411	
360 minute summer	S8203	1.016	S7324	373.4	2.161	0.508	2.9449	2973.8

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Results for 100 year +45% CC 360 minute winter. 3240 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	H6808	240	145.036	0.049	5.7	0.0695	0.0000	OK
360 minute winter	H7801	240	144.809	0.068	18.1	0.0977	0.0000	OK
360 minute winter	H7907	240	144.036	0.068	25.4	0.0978	0.0000	OK
360 minute winter	H7908	224	140.860	0.074	29.2	0.1058	0.0000	OK
360 minute winter	H7905	224	139.947	0.078	33.4	0.1109	0.0000	OK
360 minute winter	H7906	224	138.468	0.084	39.3	0.1206	0.0000	OK
360 minute winter	H8001	216	135.450	0.107	48.4	0.1530	0.0000	OK
360 minute winter	H8002	216	133.243	0.116	56.5	0.1659	0.0000	OK
360 minute winter	H8105	208	132.147	0.146	59.8	0.2092	0.0000	OK
360 minute winter	H8103	208	131.538	0.122	59.8	0.1740	0.0000	OK
360 minute winter	H8104	200	131.225	0.150	70.3	0.2148	0.0000	OK
360 minute winter	H8207	192	130.337	0.153	78.0	0.2194	0.0000	OK
360 minute winter	H8206	192	129.923	0.163	83.6	0.2339	0.0000	OK
360 minute winter	S21	184	132.075	0.075	14.5	0.1068	0.0000	OK
360 minute winter	S22	184	131.553	0.103	18.2	0.1472	0.0000	OK
360 minute winter	S23	184	131.289	0.089	21.8	0.1278	0.0000	OK
360 minute winter	S24	360	131.172	0.372	23.8	0.5321	0.0000	SURCHARGED
360 minute winter	S25	384	131.169	0.944	31.0	1.3503	0.0000	SURCHARGED
360 minute winter	S26	408	131.177	1.007	35.1	1.4410	0.0000	SURCHARGED
360 minute winter	S27	424	131.175	1.025	34.9	1.4669	0.0000	SURCHARGED
360 minute winter	S28	392	131.169	0.144	12.1	0.2054	0.0000	OK
360 minute winter	S29	408	131.169	0.444	35.8	0.6347	0.0000	SURCHARGED
360 minute winter	S30	408	131.169	0.718	35.7	1.0282	0.0000	SURCHARGED
360 minute winter	S31	408	131.169	0.918	34.6	1.3143	0.0000	SURCHARGED
360 minute winter	S32	400	131.168	1.018	33.6	1.7996	0.0000	SURCHARGED
360 minute winter	S33	400	131.169	1.168	74.0	630.7012	0.0000	SURCHARGED
360 minute winter	S34	400	131.168	1.208	2.2	6.9188	0.0000	SURCHARGED
360 minute winter	H8205	192	129.615	0.165	88.9	0.2355	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	H6808	1.000	H7801	5.7	0.698	0.103	0.1802	
360 minute winter	H7801	1.001	H7907	18.1	1.791	0.191	0.2385	
360 minute winter	H7907	1.002	H7908	25.4	2.372	0.202	0.5922	
360 minute winter	H7908	1.003	H7905	29.2	2.490	0.216	0.1610	
360 minute winter	H7905	1.004	H7906	33.4	2.603	0.247	0.2851	
360 minute winter	H7906	1.005	H8001	39.3	2.448	0.301	0.7842	
360 minute winter	H8001	1.006	H8002	48.4	2.657	0.439	0.8761	
360 minute winter	H8002	1.007	H8105	56.5	1.917	0.322	1.3400	
360 minute winter	H8105	1.008	H8103	59.8	1.818	0.443	1.1410	
360 minute winter	H8103	1.009	H8104	59.8	1.677	0.206	0.5846	
360 minute winter	H8104	1.010	H8207	70.3	1.684	0.334	3.3598	
360 minute winter	H8207	1.011	H8206	78.0	1.765	0.325	1.3074	
360 minute winter	H8206	1.012	H8205	83.6	1.805	0.345	0.9845	
360 minute winter	S21	2.000	S22	14.5	0.997	0.240	0.5979	
360 minute winter	S22	2.001	S23	18.1	1.060	0.399	0.3901	
360 minute winter	S23	2.002	S24	21.8	1.293	0.184	1.3189	
360 minute winter	S24	2.003	S25	23.8	1.281	0.176	2.3710	
360 minute winter	S25	2.004	S26	30.5	0.666	0.259	1.7319	
360 minute winter	S26	2.005	S27	34.9	0.910	0.273	0.5352	
360 minute winter	S27	2.006	S33	34.0	0.965	0.064	6.9817	
360 minute winter	S28	3.000	S29	12.1	0.699	0.105	1.4577	
360 minute winter	S29	3.001	S30	35.7	1.472	0.285	1.1083	
360 minute winter	S30	3.002	S31	34.6	0.949	0.262	5.0310	
360 minute winter	S31	3.003	S32	33.6	0.980	0.226	1.9859	
360 minute winter	S32	3.004	S33	32.7	1.019	0.055	5.6919	
360 minute winter	S33	2.007	S34	2.2	0.383	0.055	0.2706	
360 minute winter	S34	2.008	H8205	1.8	0.509	0.045	0.0655	
360 minute winter	H8205	1.013	H8204	88.9	1.999	0.337	0.7721	

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Results for 100 year +45% CC 360 minute winter. 3240 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	H8204	192	129.304	0.153	88.9	0.2196	0.0000	OK
360 minute winter	S7202	192	130.205	0.205	171.9	0.2937	0.0000	OK
360 minute winter	S8208	192	129.595	0.165	171.9	0.2367	0.0000	OK
360 minute winter	S8201	192	129.038	0.228	269.2	0.3258	0.0000	OK
360 minute winter	S8203	192	128.231	0.211	269.2	0.3015	0.0000	OK
360 minute winter	S7324	192	127.985	0.185	269.1	0.0000	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	H8204	1.014	S8201	88.8	1.779	0.298	0.8666	
360 minute winter	S7202	4.000	S8208	171.9	2.794	0.358	1.6020	
360 minute winter	S8208	4.001	S8201	171.8	2.584	0.245	0.8809	
360 minute winter	S8201	1.015	S8203	269.2	3.513	0.411	1.4847	
360 minute winter	S8203	1.016	S7324	269.1	2.006	0.366	2.2887	2922.8

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Results for 100 year +45% CC 480 minute summer. 3360 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	H6808	312	145.038	0.051	6.3	0.0731	0.0000	OK
480 minute summer	H7801	312	144.814	0.073	20.1	0.1038	0.0000	OK
480 minute summer	H7907	312	144.039	0.071	26.9	0.1009	0.0000	OK
480 minute summer	H7908	304	140.861	0.075	30.2	0.1079	0.0000	OK
480 minute summer	H7905	304	139.948	0.079	34.2	0.1124	0.0000	OK
480 minute summer	H7906	248	138.470	0.085	40.4	0.1223	0.0000	OK
480 minute summer	H8001	248	135.452	0.109	50.3	0.1564	0.0000	OK
480 minute summer	H8002	248	133.247	0.120	59.9	0.1712	0.0000	OK
480 minute summer	H8105	248	132.154	0.153	64.6	0.2190	0.0000	OK
480 minute summer	H8103	248	131.543	0.127	64.4	0.1815	0.0000	OK
480 minute summer	H8104	248	131.234	0.159	78.4	0.2280	0.0000	OK
480 minute summer	H8207	248	130.349	0.165	88.2	0.2357	0.0000	OK
480 minute summer	H8206	248	129.937	0.177	95.1	0.2531	0.0000	OK
480 minute summer	S21	248	132.083	0.082	17.5	0.1180	0.0000	OK
480 minute summer	S22	248	131.565	0.115	22.0	0.1651	0.0000	OK
480 minute summer	S23	248	131.299	0.099	26.5	0.1417	0.0000	OK
480 minute summer	S24	496	131.240	0.440	28.9	0.6300	0.0000	SURCHARGED
480 minute summer	S25	528	131.241	1.016	37.6	1.4535	0.0000	SURCHARGED
480 minute summer	S26	520	131.247	1.077	42.5	1.5415	0.0000	SURCHARGED
480 minute summer	S27	528	131.244	1.094	42.3	1.5653	0.0000	SURCHARGED
480 minute summer	S28	504	131.240	0.215	14.6	0.3071	0.0000	OK
480 minute summer	S29	504	131.240	0.515	43.2	0.7363	0.0000	SURCHARGED
480 minute summer	S30	504	131.240	0.789	43.1	1.1297	0.0000	SURCHARGED
480 minute summer	S31	504	131.239	0.989	41.4	1.4158	0.0000	SURCHARGED
480 minute summer	S32	504	131.239	1.089	40.7	1.9248	0.0000	SURCHARGED
480 minute summer	S33	504	131.239	1.239	89.6	680.5375	0.0000	SURCHARGED
480 minute summer	S34	496	131.239	1.279	2.3	7.3244	0.0000	SURCHARGED
480 minute summer	H8205	248	129.628	0.178	101.3	0.2551	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	H6808	1.000	H7801	6.3	0.712	0.114	0.1951	
480 minute summer	H7801	1.001	H7907	20.1	1.856	0.212	0.2543	
480 minute summer	H7907	1.002	H7908	26.9	2.417	0.214	0.6129	
480 minute summer	H7908	1.003	H7905	30.2	2.517	0.223	0.1646	
480 minute summer	H7905	1.004	H7906	34.1	2.623	0.253	0.2900	
480 minute summer	H7906	1.005	H8001	40.3	2.469	0.309	0.8037	
480 minute summer	H8001	1.006	H8002	50.2	2.680	0.455	0.9005	
480 minute summer	H8002	1.007	H8105	59.9	1.930	0.341	1.4111	
480 minute summer	H8105	1.008	H8103	64.4	1.850	0.477	1.2079	
480 minute summer	H8103	1.009	H8104	64.4	1.697	0.222	0.6279	
480 minute summer	H8104	1.010	H8207	78.3	1.718	0.372	3.6699	
480 minute summer	H8207	1.011	H8206	88.1	1.804	0.367	1.4435	
480 minute summer	H8206	1.012	H8205	95.0	1.851	0.393	1.0917	
480 minute summer	S21	2.000	S22	17.5	1.044	0.290	0.6901	
480 minute summer	S22	2.001	S23	22.0	1.111	0.484	0.4512	
480 minute summer	S23	2.002	S24	26.5	1.363	0.223	1.3263	
480 minute summer	S24	2.003	S25	28.9	1.212	0.213	2.3710	
480 minute summer	S25	2.004	S26	37.0	0.573	0.314	1.7319	
480 minute summer	S26	2.005	S27	42.3	0.753	0.330	0.5352	
480 minute summer	S27	2.006	S33	41.6	0.980	0.078	6.9817	
480 minute summer	S28	3.000	S29	14.6	0.727	0.127	1.7480	
480 minute summer	S29	3.001	S30	43.1	1.539	0.343	1.1083	
480 minute summer	S30	3.002	S31	41.4	0.900	0.313	5.0310	
480 minute summer	S31	3.003	S32	40.7	0.805	0.274	1.9859	
480 minute summer	S32	3.004	S33	40.1	1.048	0.068	5.6919	
480 minute summer	S33	2.007	S34	2.3	0.369	0.058	0.2706	
480 minute summer	S34	2.008	H8205	1.8	0.513	0.046	0.0668	
480 minute summer	H8205	1.013	H8204	101.3	2.036	0.384	0.8640	

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Results for 100 year +45% CC 480 minute summer. 3360 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	H8204	248	129.318	0.168	101.3	0.2408	0.0000	OK
480 minute summer	S7202	248	130.229	0.228	205.2	0.3270	0.0000	OK
480 minute summer	S8208	248	129.615	0.185	205.1	0.2652	0.0000	OK
480 minute summer	S8201	248	129.064	0.254	316.6	0.3630	0.0000	OK
480 minute summer	S8203	248	128.253	0.233	316.3	0.3333	0.0000	OK
480 minute summer	S7324	248	128.002	0.202	316.1	0.0000	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	H8204	1.014	S8201	101.2	1.864	0.340	0.9807	
480 minute summer	S7202	4.000	S8208	205.1	2.883	0.428	1.8509	
480 minute summer	S8208	4.001	S8201	204.8	2.677	0.292	1.0152	
480 minute summer	S8201	1.015	S8203	316.3	3.618	0.483	1.6937	
480 minute summer	S8203	1.016	S7324	316.1	2.081	0.430	2.5900	3214.6

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Results for 100 year +45% CC 480 minute winter. 3360 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	H6808	320	145.034	0.047	5.3	0.0671	0.0000	OK
480 minute winter	H7801	320	144.807	0.066	16.7	0.0938	0.0000	OK
480 minute winter	H7907	312	144.034	0.066	23.4	0.0938	0.0000	OK
480 minute winter	H7908	296	140.857	0.071	26.8	0.1010	0.0000	OK
480 minute winter	H7905	296	139.943	0.074	30.5	0.1056	0.0000	OK
480 minute winter	H7906	296	138.464	0.080	35.8	0.1147	0.0000	OK
480 minute winter	H8001	296	135.444	0.101	44.0	0.1446	0.0000	OK
480 minute winter	H8002	288	133.237	0.110	51.0	0.1569	0.0000	OK
480 minute winter	H8105	280	132.138	0.137	53.4	0.1954	0.0000	OK
480 minute winter	H8103	288	131.530	0.114	53.4	0.1630	0.0000	OK
480 minute winter	H8104	264	131.215	0.140	61.4	0.1996	0.0000	OK
480 minute winter	H8207	264	130.325	0.141	67.5	0.2020	0.0000	OK
480 minute winter	H8206	256	129.909	0.149	71.9	0.2138	0.0000	OK
480 minute winter	S21	248	132.067	0.067	11.6	0.0952	0.0000	OK
480 minute winter	S22	248	131.541	0.091	14.6	0.1298	0.0000	OK
480 minute winter	S23	248	131.280	0.080	17.6	0.1141	0.0000	OK
480 minute winter	S24	488	131.237	0.437	19.2	0.6252	0.0000	SURCHARGED
480 minute winter	S25	488	131.235	1.010	25.0	1.4455	0.0000	SURCHARGED
480 minute winter	S26	488	131.244	1.074	28.3	1.5367	0.0000	SURCHARGED
480 minute winter	S27	528	131.237	1.087	28.1	1.5557	0.0000	SURCHARGED
480 minute winter	S28	496	131.232	0.207	9.7	0.2965	0.0000	OK
480 minute winter	S29	496	131.232	0.507	28.7	0.7256	0.0000	SURCHARGED
480 minute winter	S30	496	131.232	0.782	29.0	1.1190	0.0000	SURCHARGED
480 minute winter	S31	496	131.232	0.982	27.9	1.4049	0.0000	SURCHARGED
480 minute winter	S32	488	131.232	1.082	27.4	1.9113	0.0000	SURCHARGED
480 minute winter	S33	488	131.232	1.232	61.1	675.1245	0.0000	SURCHARGED
480 minute winter	S34	488	131.232	1.272	2.1	7.2808	0.0000	SURCHARGED
480 minute winter	H8205	256	129.601	0.151	76.5	0.2156	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	H6808	1.000	H7801	5.3	0.686	0.096	0.1706	
480 minute winter	H7801	1.001	H7907	16.7	1.752	0.176	0.2248	
480 minute winter	H7907	1.002	H7908	23.4	2.323	0.186	0.5566	
480 minute winter	H7908	1.003	H7905	26.8	2.441	0.198	0.1506	
480 minute winter	H7905	1.004	H7906	30.5	2.543	0.225	0.2664	
480 minute winter	H7906	1.005	H8001	35.8	2.394	0.274	0.7306	
480 minute winter	H8001	1.006	H8002	44.0	2.593	0.399	0.8149	
480 minute winter	H8002	1.007	H8105	50.9	1.875	0.290	1.2335	
480 minute winter	H8105	1.008	H8103	53.4	1.768	0.396	1.0469	
480 minute winter	H8103	1.009	H8104	53.4	1.644	0.184	0.5312	
480 minute winter	H8104	1.010	H8207	61.4	1.636	0.292	3.0287	
480 minute winter	H8207	1.011	H8206	67.5	1.714	0.282	1.1650	
480 minute winter	H8206	1.012	H8205	71.9	1.748	0.297	0.8749	
480 minute winter	S21	2.000	S22	11.6	0.941	0.192	0.5079	
480 minute winter	S22	2.001	S23	14.6	1.003	0.321	0.3316	
480 minute winter	S23	2.002	S24	17.6	1.219	0.148	1.3383	
480 minute winter	S24	2.003	S25	19.2	1.181	0.142	2.3710	
480 minute winter	S25	2.004	S26	24.6	0.614	0.209	1.7319	
480 minute winter	S26	2.005	S27	28.1	0.813	0.220	0.5352	
480 minute winter	S27	2.006	S33	27.7	0.895	0.052	6.9817	
480 minute winter	S28	3.000	S29	9.7	0.670	0.084	1.7195	
480 minute winter	S29	3.001	S30	29.0	1.382	0.231	1.1083	
480 minute winter	S30	3.002	S31	27.9	0.874	0.211	5.0310	
480 minute winter	S31	3.003	S32	27.4	0.855	0.184	1.9859	
480 minute winter	S32	3.004	S33	27.0	0.958	0.045	5.6919	
480 minute winter	S33	2.007	S34	2.1	0.346	0.052	0.2706	
480 minute winter	S34	2.008	H8205	1.8	0.512	0.046	0.0666	
480 minute winter	H8205	1.013	H8204	76.5	1.950	0.290	0.6817	

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Results for 100 year +45% CC 480 minute winter. 3360 minute analysis at 8 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	H8204	256	129.289	0.139	76.5	0.1989	0.0000	OK
480 minute winter	S7202	248	130.182	0.182	139.3	0.2599	0.0000	OK
480 minute winter	S8208	248	129.575	0.145	139.3	0.2079	0.0000	OK
480 minute winter	S8201	256	129.012	0.201	221.9	0.2883	0.0000	OK
480 minute winter	S8203	256	128.208	0.188	221.9	0.2685	0.0000	OK
480 minute winter	S7324	256	127.967	0.167	221.9	0.0000	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	H8204	1.014	S8201	76.5	1.730	0.257	0.7510	
480 minute winter	S7202	4.000	S8208	139.3	2.680	0.290	1.3535	
480 minute winter	S8208	4.001	S8201	139.2	2.476	0.198	0.7458	
480 minute winter	S8201	1.015	S8203	221.9	3.383	0.339	1.2713	
480 minute winter	S8203	1.016	S7324	221.9	1.916	0.302	1.9758	3151.5

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Results for 100 year +45% CC 600 minute summer. 3480 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	H6808	375	145.037	0.050	6.1	0.0719	0.0000	OK
600 minute summer	H7801	375	144.812	0.071	19.4	0.1017	0.0000	OK
600 minute summer	H7907	375	144.038	0.070	26.4	0.0999	0.0000	OK
600 minute summer	H7908	375	140.861	0.075	29.7	0.1069	0.0000	OK
600 minute summer	H7905	375	139.947	0.078	33.6	0.1113	0.0000	OK
600 minute summer	H7906	375	138.468	0.084	39.3	0.1205	0.0000	OK
600 minute summer	H8001	360	135.449	0.106	48.0	0.1522	0.0000	OK
600 minute summer	H8002	360	133.241	0.114	55.2	0.1637	0.0000	OK
600 minute summer	H8105	315	132.144	0.143	58.0	0.2051	0.0000	OK
600 minute summer	H8103	315	131.535	0.119	57.8	0.1704	0.0000	OK
600 minute summer	H8104	315	131.224	0.149	69.2	0.2127	0.0000	OK
600 minute summer	H8207	315	130.336	0.152	77.2	0.2179	0.0000	OK
600 minute summer	H8206	315	129.922	0.162	82.7	0.2324	0.0000	OK
600 minute summer	S21	315	132.074	0.074	14.3	0.1061	0.0000	OK
600 minute summer	S22	315	131.552	0.102	18.0	0.1464	0.0000	OK
600 minute summer	S23	315	131.289	0.089	21.7	0.1274	0.0000	OK
600 minute summer	S24	630	131.285	0.485	23.6	0.6945	0.0000	SURCHARGED
600 minute summer	S25	615	131.286	1.061	30.7	1.5189	0.0000	SURCHARGED
600 minute summer	S26	630	131.289	1.119	34.7	1.6012	0.0000	SURCHARGED
600 minute summer	S27	660	131.287	1.137	34.5	1.6273	0.0000	SURCHARGED
600 minute summer	S28	630	131.285	0.260	11.9	0.3724	0.0000	OK
600 minute summer	S29	630	131.285	0.560	35.2	0.8016	0.0000	SURCHARGED
600 minute summer	S30	615	131.285	0.835	35.2	1.1952	0.0000	SURCHARGED
600 minute summer	S31	615	131.285	1.035	34.0	1.4817	0.0000	SURCHARGED
600 minute summer	S32	615	131.286	1.135	33.6	2.0064	0.0000	SURCHARGED
600 minute summer	S33	615	131.286	1.286	74.7	713.8669	0.0000	SURCHARGED
600 minute summer	S34	615	131.285	1.325	2.2	7.5891	0.0000	SURCHARGED
600 minute summer	H8205	315	129.614	0.164	88.1	0.2343	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	H6808	1.000	H7801	6.1	0.708	0.111	0.1900	
600 minute summer	H7801	1.001	H7907	19.4	1.835	0.205	0.2488	
600 minute summer	H7907	1.002	H7908	26.4	2.401	0.210	0.6051	
600 minute summer	H7908	1.003	H7905	29.7	2.507	0.220	0.1626	
600 minute summer	H7905	1.004	H7906	33.6	2.612	0.248	0.2858	
600 minute summer	H7906	1.005	H8001	39.3	2.459	0.301	0.7806	
600 minute summer	H8001	1.006	H8002	48.0	2.650	0.435	0.8698	
600 minute summer	H8002	1.007	H8105	55.1	1.920	0.314	1.3030	
600 minute summer	H8105	1.008	H8103	57.8	1.802	0.428	1.1123	
600 minute summer	H8103	1.009	H8104	57.8	1.688	0.199	0.5738	
600 minute summer	H8104	1.010	H8207	69.1	1.673	0.328	3.3257	
600 minute summer	H8207	1.011	H8206	77.0	1.758	0.321	1.2961	
600 minute summer	H8206	1.012	H8205	82.7	1.799	0.342	0.9772	
600 minute summer	S21	2.000	S22	14.3	0.993	0.237	0.5934	
600 minute summer	S22	2.001	S23	18.0	1.058	0.396	0.3877	
600 minute summer	S23	2.002	S24	21.7	1.292	0.182	1.5344	
600 minute summer	S24	2.003	S25	23.6	1.122	0.174	2.3710	
600 minute summer	S25	2.004	S26	30.2	0.535	0.256	1.7319	
600 minute summer	S26	2.005	S27	34.5	0.705	0.270	0.5352	
600 minute summer	S27	2.006	S33	34.2	0.854	0.064	6.9817	
600 minute summer	S28	3.000	S29	11.9	0.713	0.104	1.9024	
600 minute summer	S29	3.001	S30	35.2	1.464	0.281	1.1083	
600 minute summer	S30	3.002	S31	34.0	0.804	0.257	5.0310	
600 minute summer	S31	3.003	S32	33.6	0.741	0.226	1.9859	
600 minute summer	S32	3.004	S33	33.2	0.913	0.056	5.6919	
600 minute summer	S33	2.007	S34	2.2	0.355	0.055	0.2706	
600 minute summer	S34	2.008	H8205	1.9	0.515	0.047	0.0675	
600 minute summer	H8205	1.013	H8204	88.1	1.996	0.334	0.7667	

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Results for 100 year +45% CC 600 minute summer. 3480 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute summer	H8204	315	129.303	0.153	88.1	0.2183	0.0000	OK
600 minute summer	S7202	315	130.205	0.205	171.9	0.2937	0.0000	OK
600 minute summer	S8208	315	129.595	0.165	171.8	0.2367	0.0000	OK
600 minute summer	S8201	315	129.037	0.227	268.4	0.3252	0.0000	OK
600 minute summer	S8203	315	128.230	0.210	268.3	0.3009	0.0000	OK
600 minute summer	S7324	315	127.985	0.185	268.2	0.0000	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	H8204	1.014	S8201	88.0	1.837	0.296	0.8629	
600 minute summer	S7202	4.000	S8208	171.8	2.793	0.358	1.6020	
600 minute summer	S8208	4.001	S8201	171.8	2.587	0.245	0.8796	
600 minute summer	S8201	1.015	S8203	268.3	3.511	0.410	1.4811	
600 minute summer	S8203	1.016	S7324	268.2	2.004	0.365	2.2831	3399.3

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Results for 100 year +45% CC 600 minute winter. 3480 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	H6808	390	145.032	0.045	4.9	0.0646	0.0000	OK
600 minute winter	H7801	390	144.804	0.063	15.5	0.0901	0.0000	OK
600 minute winter	H7907	375	144.031	0.063	21.7	0.0902	0.0000	OK
600 minute winter	H7908	360	140.854	0.068	24.9	0.0970	0.0000	OK
600 minute winter	H7905	360	139.940	0.071	28.4	0.1015	0.0000	OK
600 minute winter	H7906	360	138.461	0.077	33.4	0.1106	0.0000	OK
600 minute winter	H8001	360	135.440	0.097	41.0	0.1388	0.0000	OK
600 minute winter	H8002	360	133.233	0.105	47.4	0.1509	0.0000	OK
600 minute winter	H8105	360	132.132	0.131	49.5	0.1869	0.0000	OK
600 minute winter	H8103	360	131.525	0.109	49.4	0.1562	0.0000	OK
600 minute winter	H8104	345	131.208	0.133	56.0	0.1901	0.0000	OK
600 minute winter	H8207	345	130.317	0.133	60.8	0.1905	0.0000	OK
600 minute winter	H8206	330	129.900	0.140	64.4	0.2006	0.0000	OK
600 minute winter	S21	315	132.061	0.061	9.8	0.0873	0.0000	OK
600 minute winter	S22	315	131.532	0.082	12.3	0.1180	0.0000	OK
600 minute winter	S23	615	131.278	0.078	14.8	0.1113	0.0000	OK
600 minute winter	S24	615	131.276	0.476	16.1	0.6812	0.0000	SURCHARGED
600 minute winter	S25	615	131.277	1.052	20.9	1.5053	0.0000	SURCHARGED
600 minute winter	S26	645	131.278	1.108	23.7	1.5850	0.0000	SURCHARGED
600 minute winter	S27	615	131.281	1.130	23.5	1.6177	0.0000	SURCHARGED
600 minute winter	S28	615	131.275	0.250	8.1	0.3581	0.0000	OK
600 minute winter	S29	615	131.275	0.550	24.0	0.7874	0.0000	SURCHARGED
600 minute winter	S30	615	131.275	0.825	24.0	1.1810	0.0000	SURCHARGED
600 minute winter	S31	615	131.275	1.025	23.1	1.4673	0.0000	SURCHARGED
600 minute winter	S32	615	131.275	1.125	22.8	1.9885	0.0000	SURCHARGED
600 minute winter	S33	615	131.275	1.275	51.8	706.4882	0.0000	SURCHARGED
600 minute winter	S34	615	131.275	1.315	2.0	7.5309	0.0000	SURCHARGED
600 minute winter	H8205	330	129.591	0.141	68.5	0.2023	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	H6808	1.000	H7801	4.9	0.673	0.089	0.1613	
600 minute winter	H7801	1.001	H7907	15.5	1.713	0.164	0.2124	
600 minute winter	H7907	1.002	H7908	21.7	2.274	0.173	0.5269	
600 minute winter	H7908	1.003	H7905	24.9	2.397	0.184	0.1426	
600 minute winter	H7905	1.004	H7906	28.4	2.495	0.210	0.2530	
600 minute winter	H7906	1.005	H8001	33.4	2.353	0.256	0.6936	
600 minute winter	H8001	1.006	H8002	41.0	2.547	0.371	0.7729	
600 minute winter	H8002	1.007	H8105	47.4	1.841	0.269	1.1662	
600 minute winter	H8105	1.008	H8103	49.4	1.735	0.366	0.9884	
600 minute winter	H8103	1.009	H8104	49.4	1.615	0.170	0.4986	
600 minute winter	H8104	1.010	H8207	56.0	1.603	0.266	2.8157	
600 minute winter	H8207	1.011	H8206	60.8	1.679	0.254	1.0715	
600 minute winter	H8206	1.012	H8205	64.4	1.706	0.266	0.8028	
600 minute winter	S21	2.000	S22	9.8	0.902	0.163	0.4479	
600 minute winter	S22	2.001	S23	12.3	0.959	0.270	0.2921	
600 minute winter	S23	2.002	S24	14.8	1.162	0.124	1.4833	
600 minute winter	S24	2.003	S25	16.1	1.101	0.119	2.3710	
600 minute winter	S25	2.004	S26	20.6	0.554	0.175	1.7319	
600 minute winter	S26	2.005	S27	23.5	0.743	0.184	0.5352	
600 minute winter	S27	2.006	S33	23.3	0.841	0.044	6.9817	
600 minute winter	S28	3.000	S29	8.1	0.639	0.071	1.8727	
600 minute winter	S29	3.001	S30	24.0	1.311	0.191	1.1083	
600 minute winter	S30	3.002	S31	23.1	0.815	0.175	5.0310	
600 minute winter	S31	3.003	S32	22.8	0.806	0.153	1.9859	
600 minute winter	S32	3.004	S33	22.6	0.906	0.038	5.6919	
600 minute winter	S33	2.007	S34	2.0	0.275	0.050	0.2706	
600 minute winter	S34	2.008	H8205	1.9	0.515	0.047	0.0674	
600 minute winter	H8205	1.013	H8204	68.5	1.909	0.260	0.6232	

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Results for 100 year +45% CC 600 minute winter. 3480 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	H8204	330	129.280	0.130	68.5	0.1856	0.0000	OK
600 minute winter	S7202	315	130.165	0.165	117.5	0.2361	0.0000	OK
600 minute winter	S8208	315	129.561	0.131	117.5	0.1876	0.0000	OK
600 minute winter	S8201	315	128.994	0.184	190.6	0.2629	0.0000	OK
600 minute winter	S8203	315	128.192	0.172	190.6	0.2455	0.0000	OK
600 minute winter	S7324	315	127.954	0.154	190.6	0.0000	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	H8204	1.014	S8201	68.5	1.695	0.230	0.6701	
600 minute winter	S7202	4.000	S8208	117.5	2.590	0.245	1.1829	
600 minute winter	S8208	4.001	S8201	117.5	2.386	0.167	0.6552	
600 minute winter	S8201	1.015	S8203	190.6	3.279	0.291	1.1266	
600 minute winter	S8203	1.016	S7324	190.6	1.846	0.259	1.7613	3331.3

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Results for 100 year +45% CC 720 minute summer. 3600 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	H6808	435	145.037	0.049	5.9	0.0708	0.0000	OK
720 minute summer	H7801	435	144.811	0.070	18.8	0.0999	0.0000	OK
720 minute summer	H7907	435	144.037	0.069	25.8	0.0986	0.0000	OK
720 minute summer	H7908	435	140.860	0.074	29.1	0.1057	0.0000	OK
720 minute summer	H7905	435	139.946	0.077	32.9	0.1100	0.0000	OK
720 minute summer	H7906	435	138.467	0.083	38.5	0.1192	0.0000	OK
720 minute summer	H8001	435	135.448	0.105	47.0	0.1502	0.0000	OK
720 minute summer	H8002	435	133.240	0.113	53.6	0.1613	0.0000	OK
720 minute summer	H8105	420	132.141	0.140	55.4	0.1997	0.0000	OK
720 minute summer	H8103	420	131.533	0.116	55.3	0.1667	0.0000	OK
720 minute summer	H8104	375	131.217	0.142	63.8	0.2035	0.0000	OK
720 minute summer	H8207	375	130.329	0.145	70.8	0.2073	0.0000	OK
720 minute summer	H8206	375	129.914	0.154	75.8	0.2206	0.0000	OK
720 minute summer	S21	375	132.070	0.070	12.7	0.0998	0.0000	OK
720 minute summer	S22	375	131.545	0.095	15.9	0.1363	0.0000	OK
720 minute summer	S23	750	131.322	0.122	19.1	0.1745	0.0000	OK
720 minute summer	S24	750	131.322	0.522	20.8	0.7466	0.0000	SURCHARGED
720 minute summer	S25	735	131.323	1.098	27.1	1.5715	0.0000	SURCHARGED
720 minute summer	S26	780	131.324	1.154	30.7	1.6513	0.0000	SURCHARGED
720 minute summer	S27	750	131.328	1.178	30.5	1.6850	0.0000	SURCHARGED
720 minute summer	S28	735	131.322	0.297	10.6	0.4255	0.0000	OK
720 minute summer	S29	735	131.322	0.597	31.3	0.8548	0.0000	SURCHARGED
720 minute summer	S30	735	131.322	0.872	31.3	1.2484	0.0000	SURCHARGED
720 minute summer	S31	735	131.322	1.072	30.3	1.5346	0.0000	SURCHARGED
720 minute summer	S32	735	131.322	1.172	30.0	2.0716	0.0000	SURCHARGED
720 minute summer	S33	735	131.322	1.322	66.9	740.8748	0.0000	SURCHARGED
720 minute summer	S34	735	131.322	1.362	2.1	7.8001	0.0000	SURCHARGED
720 minute summer	H8205	375	129.606	0.155	80.7	0.2224	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	H6808	1.000	H7801	5.9	0.702	0.107	0.1854	
720 minute summer	H7801	1.001	H7907	18.8	1.813	0.198	0.2436	
720 minute summer	H7907	1.002	H7908	25.8	2.385	0.205	0.5953	
720 minute summer	H7908	1.003	H7905	29.1	2.495	0.215	0.1600	
720 minute summer	H7905	1.004	H7906	32.9	2.597	0.243	0.2814	
720 minute summer	H7906	1.005	H8001	38.5	2.445	0.295	0.7688	
720 minute summer	H8001	1.006	H8002	46.9	2.636	0.426	0.8560	
720 minute summer	H8002	1.007	H8105	53.6	1.911	0.305	1.2729	
720 minute summer	H8105	1.008	H8103	55.3	1.784	0.410	1.0755	
720 minute summer	H8103	1.009	H8104	55.3	1.678	0.190	0.5410	
720 minute summer	H8104	1.010	H8207	63.7	1.646	0.303	3.1232	
720 minute summer	H8207	1.011	H8206	70.7	1.727	0.295	1.2109	
720 minute summer	H8206	1.012	H8205	75.7	1.766	0.313	0.9120	
720 minute summer	S21	2.000	S22	12.7	0.966	0.211	0.5418	
720 minute summer	S22	2.001	S23	15.9	1.025	0.350	0.3533	
720 minute summer	S23	2.002	S24	19.1	1.247	0.161	1.7002	
720 minute summer	S24	2.003	S25	20.8	1.055	0.153	2.3710	
720 minute summer	S25	2.004	S26	26.7	0.506	0.226	1.7319	
720 minute summer	S26	2.005	S27	30.5	0.657	0.238	0.5352	
720 minute summer	S27	2.006	S33	30.3	0.848	0.057	6.9817	
720 minute summer	S28	3.000	S29	10.6	0.690	0.092	1.9786	
720 minute summer	S29	3.001	S30	31.3	1.355	0.250	1.1083	
720 minute summer	S30	3.002	S31	30.3	0.768	0.230	5.0310	
720 minute summer	S31	3.003	S32	30.0	0.700	0.202	1.9859	
720 minute summer	S32	3.004	S33	29.8	0.897	0.050	5.6919	
720 minute summer	S33	2.007	S34	2.1	0.334	0.053	0.2706	
720 minute summer	S34	2.008	H8205	1.9	0.517	0.048	0.0681	
720 minute summer	H8205	1.013	H8204	80.7	1.968	0.306	0.7123	

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Results for 100 year +45% CC 720 minute summer. 3600 minute analysis at 15 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	H8204	375	129.294	0.144	80.7	0.2059	0.0000	OK
720 minute summer	S7202	375	130.191	0.191	152.5	0.2738	0.0000	OK
720 minute summer	S8208	375	129.584	0.154	152.4	0.2197	0.0000	OK
720 minute summer	S8201	375	129.022	0.212	240.6	0.3033	0.0000	OK
720 minute summer	S8203	375	128.217	0.197	240.5	0.2817	0.0000	OK
720 minute summer	S7324	375	127.974	0.174	240.5	0.0000	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	H8204	1.014	S8201	80.6	1.809	0.271	0.7947	
720 minute summer	S7202	4.000	S8208	152.4	2.729	0.318	1.4550	
720 minute summer	S8208	4.001	S8201	152.4	2.524	0.217	0.8003	
720 minute summer	S8201	1.015	S8203	240.5	3.437	0.367	1.3562	
720 minute summer	S8203	1.016	S7324	240.5	1.953	0.327	2.1005	3560.1

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Results for 100 year +45% CC 720 minute winter. 3600 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 winter	H6808	450	145.031	0.044	4.6	0.0626	0.0000	OK
720 minute winter	H7801	450	144.802	0.061	14.5	0.0869	0.0000	OK
720 minute winter	H7907	435	144.029	0.061	20.4	0.0874	0.0000	OK
720 minute winter	H7908	435	140.851	0.065	23.2	0.0934	0.0000	OK
720 minute winter	H7905	435	139.937	0.068	26.4	0.0976	0.0000	OK
720 minute winter	H7906	435	138.458	0.074	31.0	0.1064	0.0000	OK
720 minute winter	H8001	420	135.436	0.093	38.1	0.1331	0.0000	OK
720 minute winter	H8002	420	133.229	0.101	44.0	0.1452	0.0000	OK
720 minute winter	H8105	420	132.126	0.125	45.9	0.1790	0.0000	OK
720 minute winter	H8103	420	131.521	0.105	45.9	0.1497	0.0000	OK
720 minute winter	H8104	420	131.202	0.127	51.5	0.1819	0.0000	OK
720 minute winter	H8207	405	130.311	0.127	55.6	0.1812	0.0000	OK
720 minute winter	H8206	405	129.893	0.133	58.7	0.1902	0.0000	OK
720 minute winter	S21	375	132.057	0.057	8.5	0.0813	0.0000	OK
720 minute winter	S22	375	131.526	0.076	10.7	0.1093	0.0000	OK
720 minute winter	S23	720	131.317	0.117	12.9	0.1678	0.0000	OK
720 minute winter	S24	720	131.314	0.514	14.1	0.7358	0.0000	SURCHARGED
720 minute winter	S25	720	131.314	1.089	18.3	1.5579	0.0000	SURCHARGED
720 minute winter	S26	735	131.316	1.146	20.7	1.6394	0.0000	SURCHARGED
720 minute winter	S27	765	131.315	1.165	20.6	1.6668	0.0000	SURCHARGED
720 minute winter	S28	720	131.314	0.288	7.1	0.4128	0.0000	OK
720 minute winter	S29	720	131.314	0.589	21.0	0.8422	0.0000	SURCHARGED
720 minute winter	S30	720	131.314	0.864	21.0	1.2357	0.0000	SURCHARGED
720 minute winter	S31	720	131.314	1.064	20.3	1.5220	0.0000	SURCHARGED
720 minute winter	S32	720	131.314	1.164	20.1	2.0561	0.0000	SURCHARGED
720 minute winter	S33	720	131.314	1.314	45.9	734.3856	0.0000	SURCHARGED
720 minute winter	S34	720	131.313	1.353	2.1	7.7497	0.0000	SURCHARGED
720 minute winter	H8205	390	129.584	0.134	62.4	0.1919	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	H6808	1.000	H7801	4.6	0.663	0.084	0.1538	
720 minute winter	H7801	1.001	H7907	14.5	1.678	0.153	0.2029	
720 minute winter	H7907	1.002	H7908	20.4	2.238	0.162	0.5020	
720 minute winter	H7908	1.003	H7905	23.2	2.356	0.172	0.1352	
720 minute winter	H7905	1.004	H7906	26.4	2.448	0.195	0.2398	
720 minute winter	H7906	1.005	H8001	31.0	2.309	0.238	0.6565	
720 minute winter	H8001	1.006	H8002	38.0	2.498	0.345	0.7316	
720 minute winter	H8002	1.007	H8105	44.0	1.809	0.250	1.1039	
720 minute winter	H8105	1.008	H8103	45.9	1.702	0.340	0.9348	
720 minute winter	H8103	1.009	H8104	45.9	1.589	0.158	0.4705	
720 minute winter	H8104	1.010	H8207	51.5	1.572	0.245	2.6386	
720 minute winter	H8207	1.011	H8206	55.6	1.646	0.232	0.9995	
720 minute winter	H8206	1.012	H8205	58.7	1.670	0.243	0.7470	
720 minute winter	S21	2.000	S22	8.5	0.867	0.141	0.4042	
720 minute winter	S22	2.001	S23	10.7	0.924	0.235	0.2638	
720 minute winter	S23	2.002	S24	12.9	1.117	0.108	1.6762	
720 minute winter	S24	2.003	S25	14.1	1.061	0.104	2.3710	
720 minute winter	S25	2.004	S26	18.0	0.530	0.153	1.7319	
720 minute winter	S26	2.005	S27	20.6	0.709	0.161	0.5352	
720 minute winter	S27	2.006	S33	20.4	0.791	0.038	6.9817	
720 minute winter	S28	3.000	S29	7.1	0.616	0.062	1.9676	
720 minute winter	S29	3.001	S30	21.0	1.247	0.167	1.1083	
720 minute winter	S30	3.002	S31	20.3	0.752	0.154	5.0310	
720 minute winter	S31	3.003	S32	20.1	0.765	0.135	1.9859	
720 minute winter	S32	3.004	S33	19.9	0.854	0.034	5.6919	
720 minute winter	S33	2.007	S34	2.1	0.297	0.054	0.2706	
720 minute winter	S34	2.008	H8205	1.9	0.517	0.048	0.0680	
720 minute winter	H8205	1.013	H8204	62.4	1.874	0.237	0.5790	

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Results for 100 year +45% CC 720 minute winter. 3600 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 winter	H8204	390	129.273	0.123	62.4	0.1756	0.0000	OK
720 minute winter	S7202	375	130.153	0.153	102.5	0.2190	0.0000	OK
720 minute winter	S8208	375	129.551	0.121	102.5	0.1730	0.0000	OK
720 minute winter	S8201	375	128.981	0.171	168.9	0.2446	0.0000	OK
720 minute winter	S8203	375	128.180	0.160	168.9	0.2290	0.0000	OK
720 minute winter	S7324	375	127.944	0.144	168.8	0.0000	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	H8204	1.014	S8201	62.4	1.665	0.210	0.6147	
720 minute winter	S7202	4.000	S8208	102.5	2.515	0.214	1.0631	
720 minute winter	S8208	4.001	S8201	102.5	2.311	0.146	0.5912	
720 minute winter	S8201	1.015	S8203	168.9	3.196	0.258	1.0237	
720 minute winter	S8203	1.016	S7324	168.8	1.791	0.230	1.6078	3483.8

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Results for 100 year +45% CC 960 minute summer. 3840 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
960 minute summer	H6808	570	145.035	0.048	5.5	0.0683	0.0000	OK
960 minute summer	H7801	570	144.808	0.067	17.4	0.0959	0.0000	OK
960 minute summer	H7907	555	144.034	0.066	24.0	0.0950	0.0000	OK
960 minute summer	H7908	555	140.857	0.071	27.1	0.1016	0.0000	OK
960 minute summer	H7905	555	139.943	0.074	30.7	0.1059	0.0000	OK
960 minute summer	H7906	555	138.464	0.080	36.0	0.1150	0.0000	OK
960 minute summer	H8001	555	135.444	0.101	43.9	0.1445	0.0000	OK
960 minute summer	H8002	555	133.236	0.109	50.3	0.1559	0.0000	OK
960 minute summer	H8105	555	132.135	0.134	51.9	0.1923	0.0000	OK
960 minute summer	H8103	555	131.528	0.112	51.9	0.1608	0.0000	OK
960 minute summer	H8104	540	131.209	0.134	56.8	0.1918	0.0000	OK
960 minute summer	H8207	510	130.318	0.134	61.2	0.1911	0.0000	OK
960 minute summer	H8206	495	129.901	0.141	65.1	0.2017	0.0000	OK
960 minute summer	S21	495	132.063	0.063	10.3	0.0896	0.0000	OK
960 minute summer	S22	495	131.535	0.085	12.9	0.1211	0.0000	OK
960 minute summer	S23	975	131.370	0.170	15.5	0.2436	0.0000	OK
960 minute summer	S24	975	131.370	0.570	16.9	0.8153	0.0000	SURCHARGED
960 minute summer	S25	975	131.371	1.146	22.0	1.6398	0.0000	SURCHARGED
960 minute summer	S26	975	131.374	1.204	25.0	1.7227	0.0000	SURCHARGED
960 minute summer	S27	1020	131.369	1.219	24.8	1.7445	0.0000	SURCHARGED
960 minute summer	S28	975	131.368	0.343	8.6	0.4915	0.0000	SURCHARGED
960 minute summer	S29	975	131.369	0.644	25.4	0.9209	0.0000	SURCHARGED
960 minute summer	S30	975	131.369	0.919	25.4	1.3145	0.0000	SURCHARGED
960 minute summer	S31	975	131.369	1.119	24.7	1.6009	0.0000	SURCHARGED
960 minute summer	S32	975	131.369	1.219	24.5	2.1536	0.0000	SURCHARGED
960 minute summer	S33	975	131.369	1.369	55.3	775.4751	0.0000	SURCHARGED
960 minute summer	S34	975	131.369	1.409	2.1	8.0662	0.0000	SURCHARGED
960 minute summer	H8205	495	129.592	0.142	69.4	0.2038	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	H6808	1.000	H7801	5.5	0.691	0.100	0.1758	
960 minute summer	H7801	1.001	H7907	17.4	1.776	0.184	0.2305	
960 minute summer	H7907	1.002	H7908	24.0	2.340	0.191	0.5643	
960 minute summer	H7908	1.003	H7905	27.1	2.451	0.200	0.1517	
960 minute summer	H7905	1.004	H7906	30.7	2.548	0.227	0.2675	
960 minute summer	H7906	1.005	H8001	35.9	2.403	0.276	0.7315	
960 minute summer	H8001	1.006	H8002	43.9	2.593	0.398	0.8144	
960 minute summer	H8002	1.007	H8105	50.3	1.879	0.286	1.2142	
960 minute summer	H8105	1.008	H8103	51.9	1.756	0.385	1.0252	
960 minute summer	H8103	1.009	H8104	51.9	1.651	0.179	0.5114	
960 minute summer	H8104	1.010	H8207	56.8	1.619	0.270	2.8303	
960 minute summer	H8207	1.011	H8206	61.2	1.683	0.255	1.0772	
960 minute summer	H8206	1.012	H8205	65.0	1.709	0.269	0.8099	
960 minute summer	S21	2.000	S22	10.3	0.915	0.171	0.4641	
960 minute summer	S22	2.001	S23	12.9	0.972	0.284	0.3026	
960 minute summer	S23	2.002	S24	15.5	1.177	0.130	1.9511	
960 minute summer	S24	2.003	S25	16.9	0.988	0.125	2.3710	
960 minute summer	S25	2.004	S26	21.7	0.461	0.184	1.7319	
960 minute summer	S26	2.005	S27	24.8	0.608	0.194	0.5352	
960 minute summer	S27	2.006	S33	24.7	0.798	0.046	6.9817	
960 minute summer	S28	3.000	S29	8.6	0.651	0.075	1.9798	
960 minute summer	S29	3.001	S30	25.4	1.253	0.203	1.1083	
960 minute summer	S30	3.002	S31	24.7	0.709	0.187	5.0310	
960 minute summer	S31	3.003	S32	24.5	0.660	0.165	1.9859	
960 minute summer	S32	3.004	S33	24.4	0.856	0.041	5.6919	
960 minute summer	S33	2.007	S34	2.1	0.286	0.053	0.2706	
960 minute summer	S34	2.008	H8205	1.9	0.520	0.048	0.0689	
960 minute summer	H8205	1.013	H8204	69.3	1.914	0.263	0.6294	

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Results for 100 year +45% CC 960 minute summer. 3840 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
960 minute summer	H8204	495	129.281	0.131	69.3	0.1870	0.0000	OK
960 minute summer	S7202	495	130.170	0.170	123.9	0.2432	0.0000	OK
960 minute summer	S8208	495	129.565	0.135	123.9	0.1936	0.0000	OK
960 minute summer	S8201	495	128.999	0.189	199.4	0.2700	0.0000	OK
960 minute summer	S8203	495	128.196	0.176	199.3	0.2520	0.0000	OK
960 minute summer	S7324	495	127.957	0.157	199.2	0.0000	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	H8204	1.014	S8201	69.3	1.759	0.233	0.6911	
960 minute summer	S7202	4.000	S8208	123.9	2.617	0.258	1.2333	
960 minute summer	S8208	4.001	S8201	123.8	2.413	0.176	0.6813	
960 minute summer	S8201	1.015	S8203	199.3	3.309	0.304	1.1671	
960 minute summer	S8203	1.016	S7324	199.2	1.866	0.271	1.8213	3815.5

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Results for 100 year +45% CC 960 minute winter. 3840 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
960 minute winter	H6808	570	145.028	0.041	4.0	0.0585	0.0000	OK
960 minute winter	H7801	570	144.798	0.057	12.7	0.0810	0.0000	OK
960 minute winter	H7907	570	144.025	0.057	17.9	0.0818	0.0000	OK
960 minute winter	H7908	570	140.847	0.061	20.4	0.0873	0.0000	OK
960 minute winter	H7905	570	139.933	0.064	23.1	0.0909	0.0000	OK
960 minute winter	H7906	570	138.453	0.069	27.1	0.0992	0.0000	OK
960 minute winter	H8001	555	135.429	0.086	33.2	0.1234	0.0000	OK
960 minute winter	H8002	540	133.221	0.094	38.3	0.1351	0.0000	OK
960 minute winter	H8105	555	132.117	0.116	39.9	0.1653	0.0000	OK
960 minute winter	H8103	555	131.513	0.097	39.9	0.1385	0.0000	OK
960 minute winter	H8104	540	131.193	0.118	44.7	0.1687	0.0000	OK
960 minute winter	H8207	540	130.301	0.117	48.1	0.1674	0.0000	OK
960 minute winter	H8206	540	129.882	0.122	50.4	0.1748	0.0000	OK
960 minute winter	S21	495	132.051	0.051	6.8	0.0727	0.0000	OK
960 minute winter	S22	495	131.518	0.068	8.5	0.0966	0.0000	OK
960 minute winter	S23	945	131.364	0.164	10.2	0.2346	0.0000	OK
960 minute winter	S24	945	131.359	0.559	11.1	0.7994	0.0000	SURCHARGED
960 minute winter	S25	945	131.359	1.134	14.5	1.6231	0.0000	SURCHARGED
960 minute winter	S26	975	131.359	1.189	16.5	1.7018	0.0000	SURCHARGED
960 minute winter	S27	990	131.360	1.210	16.4	1.7318	0.0000	SURCHARGED
960 minute winter	S28	960	131.358	0.333	5.7	0.4763	0.0000	SURCHARGED
960 minute winter	S29	960	131.358	0.633	16.8	0.9057	0.0000	SURCHARGED
960 minute winter	S30	960	131.358	0.908	17.2	1.2993	0.0000	SURCHARGED
960 minute winter	S31	960	131.358	1.108	16.3	1.5856	0.0000	SURCHARGED
960 minute winter	S32	960	131.358	1.208	16.2	2.1346	0.0000	SURCHARGED
960 minute winter	S33	960	131.358	1.358	37.3	767.3843	0.0000	SURCHARGED
960 minute winter	S34	960	131.358	1.398	2.4	8.0046	0.0000	SURCHARGED
960 minute winter	H8205	540	129.573	0.123	53.8	0.1765	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	H6808	1.000	H7801	4.0	0.636	0.073	0.1394	
960 minute winter	H7801	1.001	H7907	12.7	1.614	0.134	0.1847	
960 minute winter	H7907	1.002	H7908	17.9	2.163	0.142	0.4570	
960 minute winter	H7908	1.003	H7905	20.4	2.284	0.151	0.1227	
960 minute winter	H7905	1.004	H7906	23.1	2.363	0.171	0.2174	
960 minute winter	H7906	1.005	H8001	27.1	2.232	0.208	0.5943	
960 minute winter	H8001	1.006	H8002	33.2	2.411	0.301	0.6615	
960 minute winter	H8002	1.007	H8105	38.3	1.747	0.218	0.9951	
960 minute winter	H8105	1.008	H8103	39.9	1.643	0.296	0.8421	
960 minute winter	H8103	1.009	H8104	39.9	1.537	0.137	0.4230	
960 minute winter	H8104	1.010	H8207	44.7	1.517	0.212	2.3723	
960 minute winter	H8207	1.011	H8206	48.0	1.591	0.200	0.8927	
960 minute winter	H8206	1.012	H8205	50.4	1.611	0.209	0.6657	
960 minute winter	S21	2.000	S22	6.8	0.819	0.113	0.3423	
960 minute winter	S22	2.001	S23	8.5	0.869	0.187	0.2229	
960 minute winter	S23	2.002	S24	10.2	1.046	0.086	1.9189	
960 minute winter	S24	2.003	S25	11.1	0.969	0.082	2.3710	
960 minute winter	S25	2.004	S26	14.3	0.490	0.121	1.7319	
960 minute winter	S26	2.005	S27	16.4	0.643	0.128	0.5352	
960 minute winter	S27	2.006	S33	16.3	0.709	0.030	6.9817	
960 minute winter	S28	3.000	S29	5.7	0.579	0.050	1.9798	
960 minute winter	S29	3.001	S30	17.2	1.172	0.137	1.1083	
960 minute winter	S30	3.002	S31	16.3	0.717	0.124	5.0310	
960 minute winter	S31	3.003	S32	16.2	0.698	0.109	1.9859	
960 minute winter	S32	3.004	S33	17.5	0.755	0.030	5.6919	
960 minute winter	S33	2.007	S34	2.4	0.293	0.062	0.2706	
960 minute winter	S34	2.008	H8205	1.9	0.519	0.048	0.0687	
960 minute winter	H8205	1.013	H8204	53.7	1.813	0.204	0.5152	

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Results for 100 year +45% CC 960 minute winter. 3840 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
960 minute winter	H8204	540	129.263	0.113	53.7	0.1612	0.0000	OK
960 minute winter	S7202	495	130.136	0.136	82.1	0.1942	0.0000	OK
960 minute winter	S8208	495	129.536	0.106	82.1	0.1523	0.0000	OK
960 minute winter	S8201	510	128.962	0.152	138.1	0.2177	0.0000	OK
960 minute winter	S8203	510	128.163	0.143	138.1	0.2044	0.0000	OK
960 minute winter	S7324	510	127.930	0.130	138.1	0.0000	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	H8204	1.014	S8201	53.7	1.614	0.180	0.5359	
960 minute winter	S7202	4.000	S8208	82.1	2.393	0.171	0.8950	
960 minute winter	S8208	4.001	S8201	82.1	2.192	0.117	0.5001	
960 minute winter	S8201	1.015	S8203	138.1	3.059	0.211	0.8749	
960 minute winter	S8203	1.016	S7324	138.1	1.703	0.188	1.3828	3728.5

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Results for 100 year +45% CC 1440 minute summer. 4320 minute analysis at 30 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
1440 minute summer	H6808	810	145.032	0.045	4.8	0.0639	0.0000	OK
1440 minute summer	H7801	810	144.803	0.062	15.1	0.0889	0.0000	OK
1440 minute summer	H7907	810	144.030	0.062	20.8	0.0883	0.0000	OK
1440 minute summer	H7908	810	140.852	0.066	23.5	0.0941	0.0000	OK
1440 minute summer	H7905	810	139.938	0.069	26.6	0.0980	0.0000	OK
1440 minute summer	H7906	810	138.458	0.074	31.1	0.1065	0.0000	OK
1440 minute summer	H8001	810	135.436	0.093	38.0	0.1329	0.0000	OK
1440 minute summer	H8002	810	133.228	0.101	43.4	0.1442	0.0000	OK
1440 minute summer	H8105	810	132.124	0.123	44.8	0.1766	0.0000	OK
1440 minute summer	H8103	810	131.519	0.103	44.8	0.1480	0.0000	OK
1440 minute summer	H8104	810	131.199	0.124	48.8	0.1771	0.0000	OK
1440 minute summer	H8207	780	130.306	0.122	51.8	0.1744	0.0000	OK
1440 minute summer	H8206	780	129.887	0.127	54.2	0.1819	0.0000	OK
1440 minute summer	S21	750	132.053	0.053	7.3	0.0753	0.0000	OK
1440 minute summer	S22	750	131.520	0.070	9.2	0.1008	0.0000	OK
1440 minute summer	S23	1440	131.418	0.218	11.1	0.3114	0.0000	OK
1440 minute summer	S24	1440	131.417	0.617	12.1	0.8830	0.0000	SURCHARGED
1440 minute summer	S25	1470	131.415	1.190	15.7	1.7024	0.0000	SURCHARGED
1440 minute summer	S26	1440	131.421	1.251	17.8	1.7900	0.0000	SURCHARGED
1440 minute summer	S27	1500	131.420	1.270	17.7	1.8171	0.0000	SURCHARGED
1440 minute summer	S28	1470	131.416	0.391	6.1	0.5595	0.0000	SURCHARGED
1440 minute summer	S29	1470	131.416	0.691	18.0	0.9889	0.0000	SURCHARGED
1440 minute summer	S30	1470	131.416	0.966	18.0	1.3824	0.0000	SURCHARGED
1440 minute summer	S31	1470	131.416	1.166	17.3	1.6687	0.0000	SURCHARGED
1440 minute summer	S32	1470	131.416	1.266	17.1	2.2372	0.0000	SURCHARGED
1440 minute summer	S33	1470	131.416	1.416	39.9	811.3301	0.0000	SURCHARGED
1440 minute summer	S34	1470	131.416	1.456	2.3	8.3365	0.0000	SURCHARGED
1440 minute summer	H8205	780	129.578	0.128	57.5	0.1832	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	H6808	1.000	H7801	4.8	0.668	0.087	0.1586	
1440 minute summer	H7801	1.001	H7907	15.1	1.703	0.159	0.2079	
1440 minute summer	H7907	1.002	H7908	20.8	2.253	0.165	0.5079	
1440 minute summer	H7908	1.003	H7905	23.5	2.367	0.174	0.1362	
1440 minute summer	H7905	1.004	H7906	26.6	2.455	0.197	0.2406	
1440 minute summer	H7906	1.005	H8001	31.1	2.313	0.238	0.6565	
1440 minute summer	H8001	1.006	H8002	37.9	2.497	0.344	0.7303	
1440 minute summer	H8002	1.007	H8105	43.4	1.810	0.247	1.0881	
1440 minute summer	H8105	1.008	H8103	44.8	1.692	0.332	0.9183	
1440 minute summer	H8103	1.009	H8104	44.8	1.594	0.154	0.4575	
1440 minute summer	H8104	1.010	H8207	48.8	1.559	0.232	2.5221	
1440 minute summer	H8207	1.011	H8206	51.8	1.624	0.216	0.9444	
1440 minute summer	H8206	1.012	H8205	54.2	1.641	0.224	0.7022	
1440 minute summer	S21	2.000	S22	7.3	0.832	0.121	0.3618	
1440 minute summer	S22	2.001	S23	9.2	0.888	0.202	0.3230	
1440 minute summer	S23	2.002	S24	11.1	1.071	0.093	2.1871	
1440 minute summer	S24	2.003	S25	12.1	0.887	0.089	2.3710	
1440 minute summer	S25	2.004	S26	15.5	0.423	0.131	1.7319	
1440 minute summer	S26	2.005	S27	17.7	0.556	0.138	0.5352	
1440 minute summer	S27	2.006	S33	17.6	0.625	0.033	6.9817	
1440 minute summer	S28	3.000	S29	6.1	0.590	0.053	1.9798	
1440 minute summer	S29	3.001	S30	18.0	1.113	0.143	1.1083	
1440 minute summer	S30	3.002	S31	17.3	0.613	0.131	5.0310	
1440 minute summer	S31	3.003	S32	17.1	0.596	0.115	1.9859	
1440 minute summer	S32	3.004	S33	17.0	0.641	0.029	5.6919	
1440 minute summer	S33	2.007	S34	2.3	0.259	0.057	0.2706	
1440 minute summer	S34	2.008	H8205	2.0	0.522	0.049	0.0696	
1440 minute summer	H8205	1.013	H8204	57.5	1.838	0.218	0.5438	

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Results for 100 year +45% CC 1440 minute summer. 4320 minute analysis at 30 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
1440 minute summer	H8204	780	129.267	0.117	57.5	0.1679	0.0000	OK
1440 minute summer	S7202	750	130.141	0.141	88.0	0.2017	0.0000	OK
1440 minute summer	S8208	720	129.541	0.111	88.0	0.1588	0.0000	OK
1440 minute summer	S8201	750	128.969	0.159	148.4	0.2269	0.0000	OK
1440 minute summer	S8203	750	128.169	0.149	148.4	0.2129	0.0000	OK
1440 minute summer	S7324	750	127.935	0.135	148.4	0.0000	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	H8204	1.014	S8201	57.5	1.698	0.193	0.5622	
1440 minute summer	S7202	4.000	S8208	88.0	2.432	0.183	0.9450	
1440 minute summer	S8208	4.001	S8201	88.0	2.249	0.125	0.5292	
1440 minute summer	S8201	1.015	S8203	148.4	3.108	0.227	0.9254	
1440 minute summer	S8203	1.016	S7324	148.4	1.734	0.202	1.4596	4173.9

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Results for 100 year +45% CC 1440 minute winter. 4320 minute analysis at 30 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	H6808	810	145.024	0.037	3.2	0.0524	0.0000	OK
1440 minute winter	H7801	810	144.791	0.050	10.0	0.0716	0.0000	OK
1440 minute winter	H7907	810	144.019	0.051	14.2	0.0728	0.0000	OK
1440 minute winter	H7908	810	140.840	0.054	16.2	0.0772	0.0000	OK
1440 minute winter	H7905	810	139.925	0.056	18.4	0.0807	0.0000	OK
1440 minute winter	H7906	810	138.446	0.062	21.6	0.0882	0.0000	OK
1440 minute winter	H8001	810	135.419	0.076	26.5	0.1091	0.0000	OK
1440 minute winter	H8002	810	133.211	0.084	30.5	0.1200	0.0000	OK
1440 minute winter	H8105	810	132.103	0.102	31.7	0.1455	0.0000	OK
1440 minute winter	H8103	810	131.501	0.085	31.7	0.1221	0.0000	OK
1440 minute winter	H8104	810	131.179	0.104	35.1	0.1489	0.0000	OK
1440 minute winter	H8207	810	130.287	0.103	37.6	0.1468	0.0000	OK
1440 minute winter	H8206	810	129.867	0.107	39.4	0.1526	0.0000	OK
1440 minute winter	S21	750	132.043	0.043	4.9	0.0618	0.0000	OK
1440 minute winter	S22	750	131.507	0.057	6.2	0.0819	0.0000	OK
1440 minute winter	S23	1440	131.402	0.202	7.5	0.2887	0.0000	OK
1440 minute winter	S24	1410	131.399	0.599	8.2	0.8568	0.0000	SURCHARGED
1440 minute winter	S25	1410	131.402	1.177	10.6	1.6844	0.0000	SURCHARGED
1440 minute winter	S26	1410	131.403	1.233	12.0	1.7650	0.0000	SURCHARGED
1440 minute winter	S27	1440	131.402	1.252	13.0	1.7920	0.0000	SURCHARGED
1440 minute winter	S28	1440	131.400	0.375	4.1	0.5370	0.0000	SURCHARGED
1440 minute winter	S29	1440	131.400	0.675	12.1	0.9663	0.0000	SURCHARGED
1440 minute winter	S30	1440	131.400	0.950	12.1	1.3599	0.0000	SURCHARGED
1440 minute winter	S31	1440	131.400	1.150	12.2	1.6461	0.0000	SURCHARGED
1440 minute winter	S32	1440	131.400	1.250	12.3	2.2093	0.0000	SURCHARGED
1440 minute winter	S33	1440	131.400	1.400	28.0	799.2653	0.0000	SURCHARGED
1440 minute winter	S34	1440	131.400	1.440	2.0	8.2464	0.0000	SURCHARGED
1440 minute winter	H8205	780	129.558	0.108	42.3	0.1547	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	H6808	1.000	H7801	3.2	0.599	0.058	0.1177	
1440 minute winter	H7801	1.001	H7907	10.0	1.507	0.105	0.1557	
1440 minute winter	H7907	1.002	H7908	14.2	2.025	0.113	0.3859	
1440 minute winter	H7908	1.003	H7905	16.2	2.149	0.120	0.1035	
1440 minute winter	H7905	1.004	H7906	18.4	2.219	0.136	0.1843	
1440 minute winter	H7906	1.005	H8001	21.6	2.096	0.165	0.5038	
1440 minute winter	H8001	1.006	H8002	26.5	2.268	0.240	0.5608	
1440 minute winter	H8002	1.007	H8105	30.5	1.646	0.173	0.8398	
1440 minute winter	H8105	1.008	H8103	31.7	1.545	0.235	0.7103	
1440 minute winter	H8103	1.009	H8104	31.6	1.452	0.109	0.3548	
1440 minute winter	H8104	1.010	H8207	35.1	1.426	0.167	1.9858	
1440 minute winter	H8207	1.011	H8206	37.6	1.501	0.157	0.7416	
1440 minute winter	H8206	1.012	H8205	39.4	1.517	0.163	0.5530	
1440 minute winter	S21	2.000	S22	4.9	0.744	0.081	0.2716	
1440 minute winter	S22	2.001	S23	6.2	0.796	0.136	0.2721	
1440 minute winter	S23	2.002	S24	7.5	0.955	0.063	2.1111	
1440 minute winter	S24	2.003	S25	8.2	0.858	0.060	2.3710	
1440 minute winter	S25	2.004	S26	10.4	0.439	0.088	1.7319	
1440 minute winter	S26	2.005	S27	13.0	0.566	0.102	0.5352	
1440 minute winter	S27	2.006	S33	11.8	0.643	0.022	6.9817	
1440 minute winter	S28	3.000	S29	4.1	0.525	0.036	1.9798	
1440 minute winter	S29	3.001	S30	12.1	1.052	0.096	1.1083	
1440 minute winter	S30	3.002	S31	12.2	0.616	0.093	5.0310	
1440 minute winter	S31	3.003	S32	12.3	0.618	0.083	1.9859	
1440 minute winter	S32	3.004	S33	14.4	0.685	0.024	5.6919	
1440 minute winter	S33	2.007	S34	2.0	0.236	0.051	0.2706	
1440 minute winter	S34	2.008	H8205	2.0	0.521	0.049	0.0694	
1440 minute winter	H8205	1.013	H8204	42.3	1.718	0.161	0.4281	

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Results for 100 year +45% CC 1440 minute winter. 4320 minute analysis at 30 minute timestep. Mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	H8204	810	129.249	0.099	42.3	0.1410	0.0000	OK
1440 minute winter	S7202	750	130.114	0.114	59.1	0.1634	0.0000	OK
1440 minute winter	S8208	720	129.519	0.089	59.1	0.1268	0.0000	OK
1440 minute winter	S8201	750	128.939	0.129	103.4	0.1851	0.0000	OK
1440 minute winter	S8203	750	128.142	0.122	103.4	0.1742	0.0000	OK
1440 minute winter	S7324	750	127.912	0.112	103.4	0.0000	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	H8204	1.014	S8201	42.3	1.538	0.142	0.4338	
1440 minute winter	S7202	4.000	S8208	59.1	2.218	0.123	0.6966	
1440 minute winter	S8208	4.001	S8201	59.1	2.019	0.084	0.3938	
1440 minute winter	S8201	1.015	S8203	103.4	2.865	0.158	0.6994	
1440 minute winter	S8203	1.016	S7324	103.4	1.581	0.141	1.1153	4078.0

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Appendix F

Drainage Strategy

POND 2
WATER LEVEL 130.00mAOD
MINIMUM BANK LEVEL 131.75mAOD
VOLUME @ 131.45mAOD c.835m3
VOLUME @ 131.75mAOD c.1,080m3
1:3 SIDE SLOPES
3m BENCH @ 1:20
0.9m PERMANENT POOL DEPTH
PERMANENT POOL VOLUME c.560m3
HYDROBRAKE FLOW CONTROL
2.0l/s DISCHARGE @ 1.49m HEAD (65mmØ)
IL = 129.96mAOD

NEW WET CONVEYANCE SWALE/CHANNEL. EXISTING DITCHES ALONGSIDE COATE ROAD TO BE DEEPENED AND WIDENED WHERE IN CLOSE PROXIMITY. APPROX. 1:1000

NEW WET CONVEYANCE SWALE/CHANNEL. EXISTING DITCHES ALONGSIDE COATE ROAD TO BE DEEPENED AND WIDENED WHERE IN CLOSE PROXIMITY. APPROX. 1:1000

NEW DRAIN UNDER COATE ROAD TO REPLACE EXISTING TO SERVE THE LAND TO THE SOUTH OF COATE ROAD.
300Ø PIPE @ 1:300
DS IL = 130.50mAOD
U/S IL = 130.60mAOD

POND 3
WATER LEVEL 130.60mAOD
MINIMUM BANK LEVEL 132.10mAOD
VOLUME @ 131.80mAOD c.1,310m3
VOLUME @ 132.10mAOD c.1,740m3
1:3 SIDE SLOPES
3m BENCH @ 1:20
0.9m PERMANENT POOL DEPTH
PERMANENT POOL VOLUME c.420m3
HYDROBRAKE FLOW CONTROL
8.3l/s DISCHARGE @ 1.225m HEAD (130mmØ)
IL = 130.575mAOD
OVERFLOW ORIFICE
0.069mØ @ 131.80mAOD

CUTOFF CHANNEL/SWALE/DRAIN TO INTERCEPT RUNOFF FROM HIGHER LAND TO THE SOUTH.

CUTOFF CHANNEL/SWALE/DRAIN TO INTERCEPT RUNOFF FROM HIGHER LAND TO THE SOUTH.

CUTOFF CHANNEL/SWALE/DRAIN TO INTERCEPT RUNOFF FROM HIGHER LAND TO THE SOUTH.

LIDAR LEVEL DATA

LIDAR LEVEL DATA

LIDAR LEVEL DATA

LIDAR LEVEL DATA

0 10 20 30 40 50
Metres [Scale 1:500]

A 01/06/2026 Pond 2 updated.
Revisions

Project: Land South of Coate Road
Devizes

Client:

Robert Hitchins
The Complete Development Solution

Drawing: Outline Drainage Strategy

Scale: 1:500 @ A0 Date: 06/03/2026 Drawn by: P.A.

Drawing No: 639-P106 Rev: A

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Drg.Status: FOR APPROVAL

Appendix G

Exceedance Flow Routes

Coate Bridge

CATCHMENT FLOWS
NORTHWEST TO WINDSOR DRIVE
AREA = 4.24Ha (42,400m2)

CATCHMENT FLOWS
NORTH TO COATE ROAD
AREA = 22.33Ha (223,300m2)

LIDAR LEVEL DATA

0 20 40 60 80 100
Metres (Scale 1:1,000)

Revisions

Project: Land South Of Coate Road
Devizes

Client: Robert Hitchins
The Complete Development Solution

Drawing: Existing Topography & Hydrology

Scale: 1:1,000 @ A1
Date: 17/03/2025
Drawn by: P.A.

Drawing No: 639-P100
Rev: -

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EXISTING EXCEEDANCE FLOW ROUTE TO COATE ROADFD & ADJACENT BELLWAY DEVELOPMENT ROADS/DRAINAGE AND TO KENNET & AVON CANAL (AS EXISTING FLOW ROUTE).
POND 2
WATER LEVEL 130.00mAOD
MINIMUM BANK LEVEL 131.75mAOD
VOLUME @ 131.45mAOD c.835m3
VOLUME @ 131.75mAOD c.1,080m3
1:3 SIDE SLOPES
3m BENCH @ 1:20
0.9m PERMANENT POOL DEPTH
PERMANENT POOL VOLUME c.160m3
HYDROBRAKE FLOW CONTROL
2.0l/s DISCHARGE @ 1.49m HEAD (65mmØ)
IL = 129.96mAOD
NEW WET CONVEYANCE SWALE/CHANNEL. EXISTING DITCHES ALONGSIDE COATE ROAD TO BE DEEPENED AND WIDENED WHERE IN CLOSE PROXIMITY. APPROX. 1:1000
NEW WET CONVEYANCE SWALE/CHANNEL. EXISTING DITCHES ALONGSIDE COATE ROAD TO BE DEEPENED AND WIDENED WHERE IN CLOSE PROXIMITY. APPROX. 1:1000
EXISTING EXCEEDANCE FLOW ROUTE TO KENNET & AVON CANAL (DITCH IN HEDGEROW). AS EXISTING FLOW ROUTE
NEW DRAIN UNDER COATE ROAD TO REPLACE EXISTING TO SERVE THE LAND TO THE SOUTH OF COATE ROAD.
300Ø PIPE @ 1:300
DS IL = 130.50mAOD
U/S IL=130.60mAOD
COATE ROAD
WINDSOR DRIVE
HAREBELL WAY
SPS
POND 3
WATER LEVEL 130.60mAOD
MINIMUM BANK LEVEL 132.10mAOD
VOLUME @ 131.80mAOD c.1,310m3
VOLUME @ 132.10mAOD c.1,740m3
1:3 SIDE SLOPES
3m BENCH @ 1:20
0.9m PERMANENT POOL DEPTH
PERMANENT POOL VOLUME c.420m3
HYDROBRAKE FLOW CONTROL
8.3l/s DISCHARGE @ 1.225m HEAD (130mmØ)
IL = 130.575mAOD
OVERFLOW ORIFICE
0.069mØ @ 131.80mAOD
RUNOFF FROM WEST DEVELOPMENT AREA OPEN SPACE AREAS TO DISCHARGE TO POND 2 (ASSUMED GREENFIELD RUNOFF AREA 0.6Ha).
CUTOFF CHANNEL/SWALE/DRAIN TO INTERCEPT RUNOFF FROM HIGHER LAND TO THE SOUTH.
RUNOFF FROM HIGHER LAND TO SOUTH TO BE INTERCEPTED AND DIVERTED AROUND THE PROPOSED DEVELOPMENT TO MIMIC THE EXISTING RUNOFF.
CUTOFF CHANNEL/SWALE/DRAIN TO INTERCEPT RUNOFF FROM HIGHER LAND TO THE SOUTH.
CUTOFF CHANNEL/SWALE/DRAIN TO INTERCEPT RUNOFF FROM HIGHER LAND TO THE SOUTH.
RUNOFF FROM LANE EAST OF WINDSOR DRIVE FLOWS ONTO WINDSOR DRIVE AND INTO THE EXISTING HIGHWAY DRAIN (FINAL DISCHARGE TO THE KENNET & AVON CANAL).
LIDAR LEVEL DATA
LIDAR LEVEL DATA
LIDAR LEVEL DATA
LIDAR LEVEL DATA
0 10 20 30 40 50
Metres (Scale 1:500)
Revisions
Project: Land South of Coate Road Devizes
Client: Robert Hitchins The Complete Development Solution
Drawing: Preliminary Exceedance Flow Routes
Scale: 1:500 @ A0
Date: 03/06/2026
Drawn by: P.A.
Drawing No: 639-P109
Rev: A
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