Flood Risk Assessment and SuDS Report November 2024

EAS

Eco-Living Cottages, Colne Spring Villa, Coursers Road, Colney Heath, AL4 0PB

Manor Coliving Ltd

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The content of this report is based on information available as of November 2024, the validity of the statements made may therefore vary over time as planning guidance / policies and the evidence base change.

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1 Introduction

- 1.1 This Flood Risk Assessment (FRA) and SuDS Statement has been prepared by EAS on behalf of Manor Coliving Ltd regarding the proposed development at Colne Spring Villa, Coursers Road, Colney Heath (hereinafter, the 'Site'). A site location plan is located in **Appendix A**.
- 1.2 The proposals consist of 9 eco-living residential units with associated parking and cycle parking. Proposed development plans are in **Appendix B**.
- 1.3 The red line boundary of the site remains entirely within Flood Zone 1. Flood Zone 1 is defined as having less than a 0.1% annual probability of river flooding. The site remains outside all modelled surface water flood extents, excluding a negligible area in the centre of the site which is shown to experience depth below 150mm in the 0.1% AEP modelled event. This FRA will assess all sources of flooding and detail mitigation measures where necessary.
- 1.4 This report also details a SuDS strategy to demonstrate compliance with national and local policy requirements.
- 1.5 The contents of this FRA and SuDS report are based on the advice set out in the National Planning Policy Framework (NPPF) last updated December 2023, Annex 3: Flood risk vulnerability classification, also from the NPPF and PPG 'Guidance for Flood Risk and Coastal Change', updated in August 2022.
- 1.6 This report is based on the Environment Agency flood maps, geology mapping, OS mapping, topographic survey, Strategic Flood Risk Assessment and local policy.
- 1.7 This document includes the following sections:

Section 2 – describes any relevant local and national planning policy;

Section 3 – provides a site description and background information;

Section 4 – review any potential sources of flooding;

Section 5 – details the proposed drainage strategy;

Section 6 - details the maintenance for the proposed drainage strategy; and

Section 7 – summarises and concludes the report.

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2 Policy Context

Introduction

- 2.1 This section sets out the policy context. This report is based on the advice set out in the National Planning Policy Framework (NPPF) last updated December 2023 and the Planning Practical Guidance (PPG) updated in August 2022.
- 2.2 Paragraph 167 footnote 59 of the NPPF states:

"A site-specific flood risk assessment should be provided for all developments in Flood Zones 2 and 3. In Flood Zone 1, an assessment should accompany all proposals involving: sites of 1 hectare or more; land which has been identified by the Environment Agency as having critical drainage problems; land identified in a strategic flood risk assessment as being at increased flood risk in future; or land that may be subject to other sources of flooding, where its development would introduce a more vulnerable use."

- 2.3 The flood zones are defined as:
 - Flood Zone 1 less than a 0.1% (1 in 1000) annual probability of river or tidal flooding.
 - Flood Zone 2 between a 0.1% and 1% (1 in 1000 and 1 in 100) annual probability of river flooding; or between a 0.1% and 0.5% (1 in 1000 and 1 in 200) annual probability of flooding from tidal sources.
 - Flood Zone 3a- This zone comprises land assessed as having a 1% (1 in 100) or greater annual probability of river flooding; and for tidal flooding at least a 0.5% (1 in 200) annual probability of flooding from tidal sources.
 - Flood Zone 3b This zone comprises land where water has to flow or be stored in times of flood. This classification is usually classified as land which had a 3.33% (1 in 30) annual probability of flooding.
- 2.4 Paragraph 165 discusses the suitability of development location, particularly with regards to future risks induced by climate change:

"Inappropriate development in areas at risk of flooding should be avoided by directing development away from areas at highest risk (whether existing or future). Where development is necessary in such areas, the development should be made safe for its lifetime without increasing flood risk elsewhere".

2.5 Paragraph 166 of the National Planning Policy Framework (NPPF) sets out how:

"Strategic policies should be informed by a strategic flood risk assessment, and should manage flood risk from all sources. They should consider cumulative impacts in, or affecting, local areas susceptible to flooding, and take account of advice from the Environment Agency and other relevant flood risk management authorities, such as lead local flood authorities and internal drainage boards".

2.6 Paragraphs 175 NPPF discusses the application of sustainable drainage systems:

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"Major developments should incorporate sustainable drainage systems unless there is clear evidence that this would be inappropriate. The systems used should:

- a) Take account of advice from the lead local flood authority;
- b) Have appropriate proposed minimum operational standards;
- c) Have maintenance arrangements in place to ensure an acceptable standard of operation of the lifetime of the development; and
- d) Where possible, provide multifunctional benefits."
- 2.7 The red line of the site falls entirely within Flood Zone 1. Flood Zone 1 is defined as having less than a 0.1% annual probability of river flooding. The EA Flood Map has been enclosed in Appendix C. On the periphery of the eastern boundary of the site is an area located in Flood Zones 2 and 3, sourced from the River Colne, an EA Main River.

St Albans District Current Local Plan Review 1994 (Last Updated: July 2020)

- 2.8 The current adopted Local Plan is The District Local Plan Review 1994, which will be replaced by a new plan. In 2007, Local Plans 'expired' after 27th September 2007 unless 'saved', therefore the current 1994 review contains saved policies which are still part of the development plans for St Albans.
- 2.9 Policy 84 (Saved) Flooding and River Catchment Management states:

"The Council will consult with the National Rivers Authority on all matters likely to affect the water environment in order to reduce the risk of flooding and to ensure proper management of the river catchment. The following principles will apply:

- (i) in areas liable to flood, development or the intensification of existing development, will not normally be permitted. Appropriate flood protection will generally be required where the redevelopment of existing developed areas is permitted in areas at risk from flooding;
- (ii) where appropriate, a condition will be attached to planning permissions to ensure that strips are provided alongside 'main river'(1) watercourses and kept free of development in order to allow access for dredging and discretionary maintenance;
- (iii) all works in, under, over and adjacent to watercourses shall be appropriately designed and implemented and alternatives to culverting should be explored where possible;
- (iv) proposals shall not increase flood risk in areas downstream due to additional surface water runoff. If development is permitted, it must include appropriate surface water runoff control measures."
- 2.10 Policy 84A (Saved) Drainage Infrastructure states:

"The Council will consult Thames Water Utilities Ltd. and the National Rivers Authority on all planning applications that might cause sewerage flooding. The following principles will apply:

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- (i) planning permission will not normally be granted for new development in areas which are considered presently at risk of sewerage flooding; or where development would result in an unacceptable increase in sewerage flood risk there or elsewhere;
- (ii) a detailed drainage impact study may be required at the planning application stage;
- (iii) where planning permission is granted, it may be subject to a condition or agreement relating to the approval of a drainage strategy, which may include phasing of the development."

St Albans District New Draft Local Plan 2041 (Last Updated: September 2024)

- 2.11 A new local plan began public consultation in July 2023, is set for submission in March 2025 and set to be adopted in March 2026. The New Local Plan establishes St Albans District Council's long term spatial planning strategy for delivering and managing development and infrastructure, and for environmental protection and enhancement, to 2041. All policies in this plan are considered to be in draft until adopted.
- 2.12 Policy NEB 8 Managing Flood Risk includes:

"Proposals located within flood zones (i.e. Flood Zones 2 or 3, or sites within Flood Zone 1 where there is an identified flood risk) need to meet the requirements of the sequential and exception tests, in accordance with national policy. Any Flood Risk Assessment must be undertaken in accordance with advice from the Environment Agency (if applicable) or Lead Local Flood Authority.

Where the sequential and exception tests have been applied, proposals located within areas identified as being at risk of flooding will not be permitted unless the following is demonstrated:

- a) That the most vulnerable development within the site is located in areas of lowest risk;
- b) That all sources of flood risk are considered, including fluvial and surface water flood risk;
- c) That the development is appropriately flood resistant and resilient and incorporates appropriate infrastructure to address the increasing potential for flood events due to Climate Change;
- d) That flood risk will not be increased elsewhere and, where possible, reduce flood risk offsite;
- e) How the proposal incorporates sustainable drainage systems;
- f) How any residual risk can be safely managed; and
- *g)* That safe access and egress routes are included where appropriate and have an agreed emergency plan.

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Where appropriate, proposals should include a comprehensive green infrastructure strategy with infrastructure that will provide a number of different functions relating to amenity, ecology and flood risk.

Where a development may affect a watercourse or waterbody, the proposal must demonstrate:

- *h)* A comprehensive approach to watercourse management;
- *i)* The full use of Sustainable Drainage Systems (SuDS); and
- *j)* Flood and drainage storage areas as necessary.

Surface Water Management

- k) All major development should incorporate sustainable drainage systems (SuDS) into proposals, and manage surface water run-off to achieve greenfield run-off rates where feasible;
- *I)* Proposals for minor and householder development should incorporate SuDS where applicable;
- *m)* SuDS should be green, provide multiple benefits, such as biodiversity and integrate into the green infrastructure network; and
- n) Development proposals incorporating SuDS will need to include management and maintenance plans for the proposed SuDS, with appropriate contributions sought where necessary.

Southwest Hertfordshire Level 1 Strategic Flood Risk Assessment (SFRA) Level 1 Addendum for St Albans (July 2024)

- 2.13 The revised SFRA forms part of the evidence based used to inform the Local Plan update.
- 2.14 Appendix D and Appendix G of the SFRA show that the site is located outside the EA historic flood map extents.
- 2.15 Appendix F of the SFRA notes the extents of Flood Zones 2 and 3 when climate change is accounted for. The site appears to remain in Flood Zone 1.
- 2.16 Appendix H of the SFRA displays the risk of surface water flooding across the district. The site appears to be outside all modelled surface water flood extents.
- 2.17 Appendix J of the SFRA displays the risk of surface water flooding across the District when a 40% climate change allowance is accounted for. The surface water flood extent appears not to encroach within the site however does extend further into land to the south of the site in the location of the pond.
- 2.18 Appendix K of the SFRA notes groundwater emergence depths to a 5m resolution across the District. The site is located in an area where groundwater could be present within 0.025m from the surface. Paragraph 5.5 of the SFRA states:

"The JBA groundwater flood map provides an indication of where groundwater is most likely

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emerging or to quantify the volumes of groundwater that might be expected to emerge in a

given area. In high-risk areas, a site-specific risk assessment for groundwater flooding may be required to fully inform the likelihood of flooding."

- 2.19 Appendix L of the SFRA details the location of defences, assets and structures associated with watercourses with District. There are no defences, assets and structures located within the site. On the right bank of the River Colne on the other side of the channel from the site, natural high ground defences are located.
- 2.20 Appendix N displays the reservoir flood extents across the District. The site is not located within a reservoir flood extent.
- 2.21 Appendix O shows the site is located on the periphery of the '062FWF28CHeath' Flood Warning Area.

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3 Existing Site Assessment

Site Description

- 3.1 This Flood Risk Assessment (FRA) and SuDS Statement has been prepared by EAS on behalf of Manor Coliving Ltd regarding the proposed development at Colne Spring Villa, Coursers Road, Colney Heath. The location plan is included in **Appendix A**.
- 3.2 The part of the site under consideration is not currently developed and forms part of the existing Colne Spring Villa gardens.
- 3.3 The proposals consist of 9 eco-living residential units with associated parking and cycle parking. Proposed development plans are in **Appendix B.**

Local Watercourses

3.4 An EA Main River, the River Colne is located approximately 60m east of the redline boundary of the site.

Site Levels

- 3.5 A topographical survey has been undertaken and is included in **Appendix D**.
- 3.6 The site has a general fall south-eastward, with levels ranging from 75.85mAOD in the northwestern corner, falling to 71.58mAOD in the southeastern corner.
- 3.7 The site also sees an easterly fall along the southern boundary, with levels of 75.58mAOD in the west, falling the levels of 72.17mAOD in the east.

Geology

- 3.8 With reference to the British Geological Survey (BGS) online mapping, the site is located within an area with a bedrock of Lewes Nodular Chalk Formation and Seaford Chalk Formation (undifferentiated) and variable superficial deposits of both the Kesgrave Catchment Subgroup – Sand and Gravel, and Alluvium – clay, silt, sand and gravel.
- 3.9 With reference to the BGS Borehole Viewer, a borehole record located 140m west of the site (BGS reference: TL20NW14) encountered groundwater seepage at 6m bgl. Boulder clay was recorded to a depth of 5.9m bgl, with glacial gravel, described as 'Clayey sand', recorded below to a depth of 11m.
- 3.10 The DEFRA Magic Map shows the site is located on an 'Principal' bedrock aquifer and a 'Secondary A' aquifer based on superficial drift.
- 3.11 The DEFRA Magic Map shows the site is located in the source protection Zone I Inner Catchment.
- 3.12 The DEFRA Magic Map shows the site is located in a medium to high groundwater vulnerability area.

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Sewer Records

- 3.13 The Thames Water Asset Location Map is enclosed in Appendix E.
- 3.14 Two foul water sewers run north-westerly along the eastern boundary of the site, in line with the western boundary of the River Colne. These sewers run parallel to each other.

Existing Drainage

- 3.15 A site visit undertaken by EAS has identified an existing drainage system into the River Colne, with Figure 2 showing relevant photographs for each feature described.
- 3.16 An existing pond has been identified within the site boundary (Figure 2.A), which is an uncompleted project by the site owner. This pond has an existing piped connection into the eastern boundary ditch, created by the site owner (Figure 2.B).
- 3.17 This ditch flows in a northerly direction, and discharges into another man-made pond located in a clearing in the woodland, approximately 50m east of the existing houses (Figure 2.C). The pond located within the woodland, is assumed to outfall to the river Colne (figure 2.D), to the east.





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Figure 2: Images from site visit to Eco-living Cottages, Colney Heath, St Albans, AL4 0PB (Source EAS)

A. Existing Pond within site boundary, **B**. Pipe connecting pond to a ditch to the east, **C.** Pond located in the woodland, 50m east of existing houses, **D.** River Colne, to the East

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4 Potential Source of Flooding

Fluvial

- 4.1 A copy of the Environment Agency's Flood Map for Planning is enclosed in Appendix C.
- 4.2 The site is located entirely in Flood Zone 1. Land in Flood Zone 1 is considered to have an annual risk of flooding from a fluvial source of less than 0.1% annual probability. Flood Zones 2 and 3 associated with the River Colne are located just outside the eastern site boundary.
- 4.3 Due to the proximity of the site boundary to flood zone 2, DEFRA fluvial flood data was analysed in QGIS and subsequently overlain with the site boundary to ensure absolute accuracy. This map confirmed that the site is entirely outside of Flood Zones 2 and 3. This flood map is included in **Appendix C**.

Surface Water

- 4.4 Surface water flooding refers to flooding caused when the intensity of rainfall, particularly in urban areas, can create runoff which temporarily overwhelms the capacity of the local drainage systems or does not infiltrate into the ground. The water ponds on the ground and flows towards low-lying land. This source of flood risk is also known as 'pluvial'.
- 4.5 The EA long term risk maps (available of the GOV.UK website) shows the majority of the site is at a very low risk of surface water flooding, with only a small amount of flooding noted under the low risk (between 0.1% and 1% chance each year). The EA long term risk maps are included in **Appendix F**.
- 4.6 A high-risk scenario indicates a greater than 3.3% annual probability of surface water flooding, i.e., the most frequently occurring scenario. The medium risk scenario indicates an annual probability of surface water flooding between 3.3% and 1%. In both scenarios, the site was shown to not be affected by surface water fooding.
- 4.7 The low-risk scenario indicates an annual probability of surface water flooding between 1% and 0.1%, (i.e. the least frequent but worst-case scenario). Under this scenario, a small area of surface flooding was noted on the access road, with levels of flooding up to 30cm.
- 4.8 Defra surface water flood data was obtained and overlayed with the site to further analyse surface water flood risks.

DEFRA Surface Water Flood Mapping

- 4.9 The available Defra surface water flooding data for a 0.1% annual probability, analysed in QGIS, is also included in **Appendix G**, showing the flooding depth on both the existing site and proposed development. The Defra surface water mapping shows the predicted depths of flooding at 150mm intervals, which is more precise than the EA long term flood risk maps.
- 4.10 For the 0.1% AEP event (1 in 1000yr.), surface water flooding is shown to the centre of the site along the existing access road, with maximum depths of <150mm. No surface water flooding is located on any of the proposed buildings; therefore, no displacement is likely to occur. This</p>

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small area of pooling water is likely to be drained by the proposed permeable paving and therefore, it is unlikely that any surface water flooding would occur post development.

Artificial

- 4.11 The EA long term risk maps also display the risk from reservoirs. The site is shown not to be in a reservoir flood risk area. An extract of the EA long term risk maps is included in Appendix F.
- 4.12 The risk of flooding from artificial source is considered low.

Groundwater

- 4.13 The South West Hertfordshire SFRA's interactive Flood Risk Map shows the groundwater to be >5m deep below the site.
- 4.14 Usually in the absence of a ground investigation BGS borehole information provides the most helpful indication of whether groundwater flooding is an issue, but perched groundwater (rather than the aquifer) may still be found in certain conditions.
- 4.15 Borehole records show that groundwater seepage was encountered at 6m bgl (BGS reference: TL20NW14), with boulder clay located above this.
- 4.16 The MAGIC Map website (<u>https://magic.defra.gov.uk/MagicMap.aspx</u>) shows the site lying within Zone I, Inner source protection zone.
- 4.17 The MAGIC Map website shows the site is located within a medium vulnerability area. Medium groundwater vulnerability is defined as "areas that offer some groundwater protection. Intermediate between high and low vulnerability."
- 4.18 The risk of groundwater emergence is likely to be low due to the geology of clay, however onsite investigation prior to construction will determine if any perched groundwater is present.

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5 Floods Warnings

- 5.1 Due to the site proximity to Flood zones 2 and 3, it is recommended that residents sign up to receive EA Flood Warnings.
- 5.2 The EA operate a flood forecasting and warning service in areas at risk of flooding from rivers or the sea, which relies on direct measurements of rainfall, river levels, tide levels, in-house predictive models, rainfall radar data and information from the Met Office. This service operates 24 hours a day, 365 days a year.
- 5.3 The site is located within the 'The River Colne at Colney Heath including North Mymms' Flood Warning Area.
- 5.4 It is recommended that the site manager and residents subscribe to the EA flood warning service by using the link: https://www.fws.environment-agency.gov.uk/app/olr/home. Alternatively, registration can be completed by telephone via the EA Floodline on 0345 988 1188 or Typetalk 0345 602 6340.
- 5.5 Upon receipt of a Flood Alert, residents should remain vigilant of potential flooding along the eastern boundary of the site; however, as the site itself and the access onto Coursers Road are within Flood Zone 1, evacuation should not be necessary.

6 Proposed Drainage Stategy

Relevant SuDS Policy

- 6.1 SuDS mimic natural drainage patterns and provide a method of surface water drainage which can decrease the quantity of water discharged, and hence reduce the risk of flooding. SuDS design should meet the "four pillars" of SuDS of: water quantity, water quality, amenity and biodiversity, wherever possible.
- 6.2 In decreasing order of preference, the preferred means of disposal of surface water runoff is:
 - Discharge to ground.
 - Discharge to a surface water body.
 - Discharge to a surface water sewer.
 - Discharge to a combined sewer.

Site-Specific SuDS

6.3 The various SuDS methods need to be considered in relation to site-specific constraints. Several SuDS options are available to reduce or temporarily hold back the discharge of surface water runoff. Table 6.1 outlines the constraints and opportunities to each of the SUDS devices in accordance with the hierarchical approach outlined in The SuDS Manual CIRIA C753. It also indicates what could and could not be incorporated within the development, based upon sitespecific criteria.

| Device | Description | Constraints / Comments | Appropriate |
|--|---|---|-------------|
| Living roofs (source control) | Provide soft landscaping at roof level which reduces surface water runoff. | Green roofs proposed on bin stores | Yes |
| Infiltration devices & Soakaways (source control) | Store runoff and allow water to percolate into the ground via natural infiltration. | Infiltration not viable | No |
| Pervious surfaces (source control) | Storm water is allowed to infiltrate through the surface into a storage layer, from which it can either infiltrate and/or slowly release to sewers. | Permeable paving has been proposed for part of access road | Yes |
| Rainwater harvesting (source control) | Reduces the annual average rate of runoff from the Site by reusing water for non-potable uses e.g. toilet flushing, recycling processes. | Rainwater harvesting tanks have been proposed | Yes |

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| Swales (permeable conveyance) | Broad shallow channels that convey / store runoff and allow infiltration (ground conditions permitting). | No suitable location onsite | No |
|--|---|--|-----|
| Filter drains & perforated pipes (permeable conveyance) | Trenches filled with granular materials (to take flows from adjacent impermeable areas) that convey runoff while allowing infiltration. | Not proposed due to scope of works | No |
| Filter Strips (permeable conveyance) | Wide gently sloping areas of grass or dense vegetation that remove pollutants from run-off from adjacent areas. | Not proposed due to scope of works | No |
| Infiltration basins (end of pipe treatment) | Depressions in the surface designed to store runoff and allow infiltration. | Not appropriate due to scope of works | No |
| Wet ponds & constructed wetlands (end of pipe treatment) | Provide water quality treatment & temporary storage above the permanent water level. | Existing pond to be utilised | Yes |
| Attenuation Underground (end of pipe treatment) | Oversized pipes or geo-cellular tanks designed to store water below ground level. | Pond achieves adequate attenuation, therefore not required | No |
| Raingardens | Rain gardens are relatively small depressions in the ground that can act as infiltration points for roof water and other 'clean' surface water. | Raingarden planters have been proposed for each property | Yes |

Table 6.1 Site Specific SuDS

Consideration of SuDS Hierarchy

- 6.4 The site is shown to have bedrock geology of chalk but given the variable superficial deposits and a nearby borehole showing boulder clay, it is likely infiltration on the site is variable, and therefore has not been proposed. However, a site visit has noted an existing pond to the south of the site, which will be utilised within this drainage strategy. The existing basin is an uncompleted project by the site owner, who has proposed that it be completed to form the main balancing pond for the development.
- 6.5 The existing pond has an existing piped connection into the eastern boundary ditch, which the owner created to flow in a northern direction into the man-made pond located to the east of Colne Spring Villa and subsequently outfalls into the river Colne to the east. This existing drainage system has been noted in Section 3.

Surface Water Drainage Design Parameters

- 6.6 The following best practice design parameters have been considered:
 - The local 2070s 'Upper End' Climate Change allowance is 40% and has been applied to the hydraulic drainage network design.

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- The Hydraulic Model has been for a 1:2yr Storm Event, 1:30yr Storm Event, 1:30yr + 40% Climate Change Event, 1:100yr Storm Event and 1:100yr + 40% Climate Change Storm Event.
- FEH22 rainfall data has been used.
- The CV Value for Winter and Summer storms has been set to 1.0.
- A 5min time of entry has been used.
- In line with Hertfordshire's LLFA Guidelines, the proposed attenuation has a halfdrain time within 48hrs (2880mins).
- The drainage calculations include a surcharged outfall.
- 6.7 Pre and Post Discharge Volumes and Long Term Storage Non-Statutory Technical Guidance Policy S5 States:

"Where reasonably practicable, for developments which have been previously developed, the runoff volume from the development to any highway drain, sewer or surface water body in the 1 in 100 year, 6 hour rainfall event must be constrained to a value as close as is reasonably practicable to the greenfield runoff volume for the same event but should never exceed the runoff volume from the development site prior to redevelopment for that event. "

6.8 Policy S6 States:

"Where it is not reasonably practicable to constrain the volume of runoff to any drain, sewer or surface water body in accordance with S4 or S5 above, the runoff volume must be discharged at a rate that does not adversely affect flood risk."

6.9 CIRIA's Susdrain Fact Sheet and SC030219 (Rainfall Runoff Management for Developments) sets out how post-development volumes that exceed pre-development volumes should be managed. If the post development discharge volume for a 1 in 100yr 360min Storm exceeds that of the Greenfield 1 in 100yr 360min Storm, either:

"Limit discharge from the site for all storms up to and including the 1 in 100yr + Climate Change Event to the QBAR/1:2yr Greenfield Runoff Rate;

Or

"For the greenfield volume, provide variable discharge rates to meet the equivalent greenfield QBAR, 1 in 30 and 1 in 100 rates, and either infiltrate or provide Long Term Storage for the additional volume of runoff produced by the development, to discharge at QBAR or 2l/s/ha, whichever is the greater."

Post Development Runoff Rate

6.10 Greenfield runoff rates were estimated using the ReFH2 method on the Causeway Flow software. The results of which are included in **Appendix H**. The proposed impermeable area of the site is 0.33ha, the following greenfield runoff rates for a range of storm events have been scaled accordingly:

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- 1 in 1 year 2.5 l/s/ha 0.8 l/s
- 1 in 2 year 3.0 l/s/ha 0.9l/s
- 1 in 30 year 8.1 l/s/ha 2.5l/s
- 1 in 100 year 10.6 l/s/ha 3.2l/s
- 6.11 Causeway Flow Greenfield ReFH2 Method was used to calculate the 1:100yr 360min Storm Event Discharge Volume for 0.33ha. The results are included in **Appendix H** and show the existing discharge volume is 39.93m³.
- 6.12 The proposals seek to match the 1 in 1 year Greenfield Runoff Rate for all storms up to and including the 1:100yr + 40% Climate Change Event. It is therefore proposed for the runoff rate to be restricted to 0.8 l/s for all storms up to and including a 1 in 100 year +40% climate change event.

Proposed SuDS Strategy

- 6.13 As outlined in Table 6.1 above, a number of SuDS Features shall be utilised to form the Surface Water Drainage Strategy in order to meet the 4 Pillars of SuDS.
 - Water Quantity Permeable Paving, Pond
 - Water Quality Raingarden Planters, Permeable Paving
 - Biodiversity Raingarden Planters, Pond
 - Amenity Raingarden Planters, Pond, Rainwater Re-Use Tanks
- 6.14 The proposed SuDS Layout is included in **Appendix J** and Causeway Flow Hydraulic Model Outputs is contained in **Appendix I**.

Pipe Network

- 6.15 The proposed drainage strategy employs a pipe network running through the site and draining to the existing pond to the south of the site, via a gravity connection.
- 6.16 Rainwater downpipes are to be located at each of the corners of each property (two at the front and two at the rear) and will direct surface water run-off from roof area into the proposed pipe network. Raingarden planters have been proposed for each of the properties, with location varying per property. Surface water will discharge into raingarden planters via rainwater downpipes, then subsequently draining into the proposed pipe network.
- 6.17 The pipe network is proposed to run in a southerly direction, and discharge into the existing pond (Figure 2.A).

Permeable Paving

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- 6.18 The road along the south of the site is proposed to utilise lined permeable paving. Causeway Flow was used to determine the required sub-base depth of permeable paving for all rainfall events up to and including the 1 in 100yr +40%CC event. The permeable paving (786m²), will have a minimum sub-base depth of 500mm, resulting in a maximum attenuation of 80.58m³.
- 6.19 Road area to the north (546m²), and some road area to the south (136m²) of the site is proposed to be hardstanding, due to root protection zones in these areas. These two areas of hardstanding are proposed to drain into the area of permeable paving.
- 6.20 Surface water from the permeable paving will connect into the main pipe network in the southeast of the site, restricted by a 50mm orifice plate.

Green Roofs

6.21 Green Roofs have been proposed on each of the bin stores within this development. Green roofs will be piped into the proposed pipe network.

Attenuation Basin

6.22 The proposed pipe network will drain into an existing unfinished pond, in the southeast corner of the site, which is to re-purposed as an attenuation basin. This basin will be modified to allow for sufficient storage of surface water, and act as a treatment stage.

Pond – Depth: 1m, Top of Pond: 809m², Base of Pond: 453m², Maximum volume held 314.60m³

- 6.23 Discharge from this pond will be restricted by a hydrobrake and outfall to the existing ditch located to the east of the site. This hydrobrake will restrict the run-off to a maximum rate of 0.8 l/s for all storms up to and including a 1 in 100-year event +40% climate change.
- 6.24 This existing ditch was observed to drain to a nearby pond, which drains into a nearby river, as identified in Section 3.18.
- 6.25 The Causeway Flow hydraulic calculations have been included in **Appendix I** with the proposed drainage layout for the attenuation-based strategy included at **Appendix J.** A standard details drawing is included in **Appendix K.**

Rainwater Re-use Storage Tanks

6.26 Rainwater harvesting tanks have been proposed within this site. To account for the most extreme storm events when these tanks will be unable to store excess surface water, these tanks have not been modelled within this drainage strategy. Tanks sizes and exact locations are to be determined at a later date.

Long Term Storage

6.27 The proposals seek to match the existing 1:1yr Pre-Development Runoff Rate for all storms up to and including the 1:100yr + 40% Climate Change Event, as such Long Term Storage is not required.

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Half Drain Times

- 6.28 The half drain times have been met in accordance with Hertfordshire's Guidelines, which require half drain times of below 48 hours (2880 minutes).
- 6.29 The permeable paving has a half drain time of 208 minutes, and the pond has a half drain time of 2880, both meeting the required times of less than 48 hours (2880 mins).

Exceedance Event

6.30 The proposed surface water drainage strategy is designed to accommodate a 1:100yr + 40% Climate Change Storm Event. In the unlikely event that an exceedance event occurs, any flood waters would flow in a southeast direction, away from the proposed development. An Exceedance Route Plan is included in Appendix L.

Water Quality

6.31 The proposed drainage strategies are to meet the water quality requirements set out by Table 26.2 of the CIRIA SuDS Manual C753 which sets out the specific pollution hazard indices for residential roofs and low traffic roads in Table 6.2 below.

| Land Use | Hazard Level | Pollution Hazard Indices | | |
|--|--------------|--------------------------|--------|--------------|
| | | Suspended Solids | Metals | Hydrocarbons |
| Residential roofs | Very low | 0.2 | 0.2 | 0.05 |
| Individual property driveways and low traffic roads | Low | 0.5 | 0.4 | 0.4 |
| Pollution Mitigation Required | | 0.5 | 0.4 | 0.4 |

Table 6.2 Land Use Pollution Hazard Ratings. Extracted from the CIRIA SuDS Manual C753 Simple Index Approach Tool.

- 6.32 There are two pathways in which drainage moves through this system. The first utilises permeable paving, followed by a pond
- 6.33 Table 6.3 below, shows how the permeable paving and pond proposed for this development will adequately mitigate the associated risks to water pollution and maintain water quality.

| SuDS Component | Pollution Mitigation Indices | | |
|----------------------------|--------------------------------------|------------------|------------------|
| | Suspended Solids Metals Hydrocarbons | | Hydrocarbons |
| Permeable Paving | 0.7 | 0.6 | 0.7 |
| Pond | 0.7(x0.5) = 0.35 | 0.7(x0.5) = 0.35 | 0.5(x0.5) = 0.25 |
| Total Pollution Mitigation | >0.95 | 0.95 | 0.95 |

Table 6.3 SuDS Component Pollution Mitigation for Permeable Paving and a Pond Extracted and adapted from the CIRIA SuDS Manual C753 Simple Index Approach Tool

6.34 The second pathway utilises a pipe network, flowing into the pond.

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| SuDS Component | Pollution Mitigation Indices | | |
|----------------------------|--------------------------------------|-----|--------------|
| | Suspended Solids Metals Hydrocarbons | | Hydrocarbons |
| Pond | 0.7 | 0.7 | 0.5 |
| Total Pollution Mitigation | 0.7 | 0.7 | 0.5 |

Table 6.4 SuDS Component Pollution Mitigation for Permeable Paving and a Pond Extracted and adapted from the CIRIA SuDS Manual C753 Simple Index Approach Tool

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7 Maintenance of Devlopement Drainage

- 7.1 The maintenance of the SuDS features will remain the responsibility of the site owner or an appointed maintenance company. The site owner/appointed management company will be responsible for maintaining an attenuation storage tank/soakaway and raingarden planter.
- 7.2 Regular inspections and maintenance should be carried out for each of these elements, particularly after periods of heavy rainfall. Maintenance tasks and frequencies for the aforementioned SuDS features are detailed in the CIRIA SUDS Manual (C753) and have been summarised below in Table 7.1 7.4 below.

| Maintenance Schedule | Required Action | Frequency |
|------------------------|---|--|
| Regular maintenance | Brushing and vacuuming. | Three times per year at end of winter, mid- summer, after autumn leaf fall, or as required based on site specific observations of clogging or manufacturer's recommendations. |
| Occasional maintenance | Stabilize and mow contributing and adjacent areas. | As required. |
| | Removal of weeds. | As required. |
| Remedial actions | Remediate any landscaping which, through vegetation maintenance of soil slip, has been raised to within 50mm of the level of the paving. | As required. |
| | Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance of a hazard to the user. | As required. |
| | Rehabilitation of surface and upper sub-surface. | As required (if infiltration performance is reduced as a result of significant clogging.) |
| Monitoring | Initial inspection | Monthly for 3 months after installation. 3 monthly, 48 hours after large storms. |
| | Inspect for evidence of poor operation and/or weed growth. If required, take remedial action | Annually. |
| | Inspect silt accumulation rates and establish appropriate brushing frequencies. | Annually. |
| | Monitor inspection chambers. | Annually |

Table 7.1: Maintenance tasks for an Permeable Paving (Source: CIRIA C753, The SUDS Manual)

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| Maintenance Schedule | Required Action | Frequency |
|------------------------|--|---|
| Regular Inspections | Inspect infiltration surfaces for silting and ponding, record de-watering time of the facility and assess standing water levels in underdrain (if appropriate) to determine if maintenance is necessary. | Quarterly. |
| | Check operation of underdrains by inspection of flows after rain. | Annually. |
| | Inspect inlets and outlets for blockage. | Quarterly. |
| Regular maintenance | Remove litter and surface debris and weeds. | Quarterly (or more frequently for tidiness or aesthetic reasons). |
| | Replace any plants, to maintain planting density. | As required. |
| | Remove sediment, litter and debris build-up from around inlets or from forebays. | Quarterly or biannually. |
| Occasional Maintenance | Infill any holes or scour in the filter medium, improve erosion protection if required. | As required. |
| | Repair minor accumulations of silt by raking away surface mulch, scarifying surface of medium and replacing mulch. | As required. |
| Remedial Actions | Remove and replace filter medium and vegetation above | As required but likely to be > 20 years. |

Table 7.2: Maintenance tasks for Bioretention Systems (Raingarden planters) (Source: CIRIA C753, The SUDS Manual)

| Maintenance Schedule | Required Action | Frequency |
|----------------------|--|-----------------------------------|
| Regular Inspections | Inspect all components including soil substrate, vegetation, drains, irrigation systems (if applicable), membranes and roof structure for proper operation, integrity of waterproofing and structural stability. | Annually and after severe storms. |
| | Inspect soil substrate for evidence of erosion channels and identify any sediment sources. | Annually and after severe storms. |

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| | Inspect drain inlets to ensure unrestricted runoff from the drainage layer to the conveyance or roof drain system. | Annually and after severe storms. |
|---------------------|--|---|
| | Inspect underside of roof for evidence of leakage. | Annually and after severe storms. |
| Regular maintenance | Remove debris and litter to prevent clogging of inlet drains and interference with plant growth. | Six monthly and annually or as required. |
| | During establishment (i.e. one year), replace dead plants as required. | Monthly (but usually responsibility of manufacturer). |
| | Post establishment, replace dead plants as required (where >5% of coverage). | Annually (in autumn). |
| | Remove fallen leaves and debris from deciduous plant foliage. | Six monthly or as required. |
| | Remove nuisance and invasive vegetation, including weeds. | Six monthly or as required. |
| | Mow grasses, prune shrubs and manage other planting (if appropriate) as required – clippings should be removed and not allowed to accumulate. | Six monthly or as required. |
| Remedial Actions | If erosion channels are evident, these should be stabilised with extra soil substrate similar to the original material, and sources of erosion damage should be identified and controlled. | As required. |
| | If drain inlet has settled, cracked or moved, investigate and repair as appropriate. | As required. |

Table 7.3: Maintenance tasks for Green Roofs (Source: CIRIA C753, The SUDS Manual).

| Maintenance Schedule | Required Action | Frequency |
|----------------------|---|---|
| Regular Maintenance | Litter and debris removal. | Monthly, or as required. |
| | Grass cutting to retain grass height within specified design range. | Monthly (during growing season) or as required. |
| | Manage other vegetation and remove nuisance plants. | Monthly (at start, then as required). |

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| | Inspect inlets, outlets and overflows for blockages and clear if required. | Monthly. |
|------------------------|--|--|
| | Inspect inlets and facility surface for silt accumulation, establish appropriate silt removal frequencies. | Half yearly. |
| Occasional maintenance | Check for poor vegetation growth due to lack of sunlight or dropping of leaf litter and cut back adjacent vegetation where possible. | Annually. |
| | Re-seed areas of poor vegetation growth. Alter plant types to better suit conditions if required. | Annually, or if bare soil is exposed over 10% or more of the swale treatment area. |
| Remedial Actions | Repair erosion or other damage by re- turfing or reseeding. | As required. |
| | Re-level uneven surfaces and re-instate design levels. | As required. |
| | Scarify and spike topsoil level to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface. | As required. |
| | Remove build-up of sediment on upstream gravel trench, flow spreader or at top of filter strip. | As required. |
| | Remove or dispose of oils or petrol residues using safe standard practices. | As required. |
| Monitoring | Inspect inlets, outlets and overflows for blockages, and clear if required. | Monthly. |
| | Inspect infiltration surface for ponding, compaction, silt accumulation. | Monthly, or when required. |
| | Record areas where water is ponding for >48 hours. | Half yearly. |
| | Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies. | Half yearly. |

Table 7.4: Maintenance tasks for Ponds (Source: CIRIA C753, The SUDS Manual).

7.3 A maintenance schedule for the rainwater re-use storage tanks will be provided by the manufacturer.

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- 7.4 It is recommended that during the first 12 months of operation all SuDS and drainage features are visually inspected on a monthly basis to determine any seasonal patterns this includes all SuDS features, inspection chambers, inlets and outlets. This will determine whether or not the recommended service intervals set out by CIRIA in the figures above will be sufficient for maintenance beyond the first year.
- 7.5 After the first 12 months, the maintenance schedule should be designed to at least meet the requirements set out by CIRIA based on the outcome of the monitoring.

Manholes, Sewers and Inspection Chambers

- 7.6 All inspection chambers and manholes, including the orifice plate chambers, should be inspected on a bi-annual basis with further visual checks carried out throughout the year, such as in November after the heaviest leaf-fall has occurred.
- 7.7 Should a blockage occur at any time, it is advised to seek professional help to jet the drainage system to clean and clear the system.

Gutters and Downpipes

7.8 It is good practice to ensure that these are occasionally inspected to ensure they are in good order and free of leaves & debris. Once every 6 months should be sufficient.

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8 Conclusions

- 8.1 This Flood Risk Assessment (FRA) and SuDS Statement has been prepared by EAS on behalf of Manor Coliving Ltd regarding the proposed development at Colne Spring Villa, Coursers Road, Colney Heath.
- 8.2 The proposals consist of 9 eco-living residential units with associated parking and cycle parking.

Flood Risk Summary

- 8.3 The red line boundary of the site remains entirely within Flood Zone 1. Flood Zone 1 is defined as having less than a 0.1% annual probability of river flooding.
- 8.4 In the 0.1% AEP surface water flood event, a small area of surface water flooding with a depth of below 150mm, is noted within the southern access road. This small area of pooling water is likely to be drained by the proposed permeable paving and therefore, it is unlikely that any surface water flooding would occur post development.

SuDS Summary

- 8.5 The proposed drainage strategy employs a pipe network running through the site and draining to the existing pond to the south of the site, via a gravity connection. Raingarden planters have been proposed for each of the properties, and green roofs will manage run-off from the proposed bin stores.
- 8.6 An area of permeable paving will be located along the southern road of the site, which will manage surrounding hardstanding, and connect into the pipe network.
- 8.7 Surface water within this network will be discharged into the existing pond, which is to be modified to allow for sufficient storage.
- 8.8 Discharge from this pond will be restricted by a hydrobrake which will restrict run-off to a maximum rate of 0.8 l/s for all storms up to and including a 1 in 100-year event +40% climate change, and outfall into an existing ditch to the east of the site.

Conclusion

8.9 The proposals will not increase flood risk onsite or elsewhere as detailed in this report and are therefore deemed policy compliant on flood risk and SuDS grounds.

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Appendix: B – Proposed Development Plans

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Appendix: C – EA Flood Map for Planning

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Flood map for planning

Your reference <Unspecified>

Location (easting/northing) **520648/205339**

Created 26 Nov 2024 8:23

Your selected location is in flood zone 1, an area with a low probability of flooding.

You will need to do a flood risk assessment if your site is any of the following:

- bigger that 1 hectare (ha)
- In an area with critical drainage problems as notified by the Environment Agency
- identified as being at increased flood risk in future by the local authority's strategic flood risk assessment
- at risk from other sources of flooding (such as surface water or reservoirs) and its development would increase the vulnerability of its use (such as constructing an office on an undeveloped site or converting a shop to a dwelling)

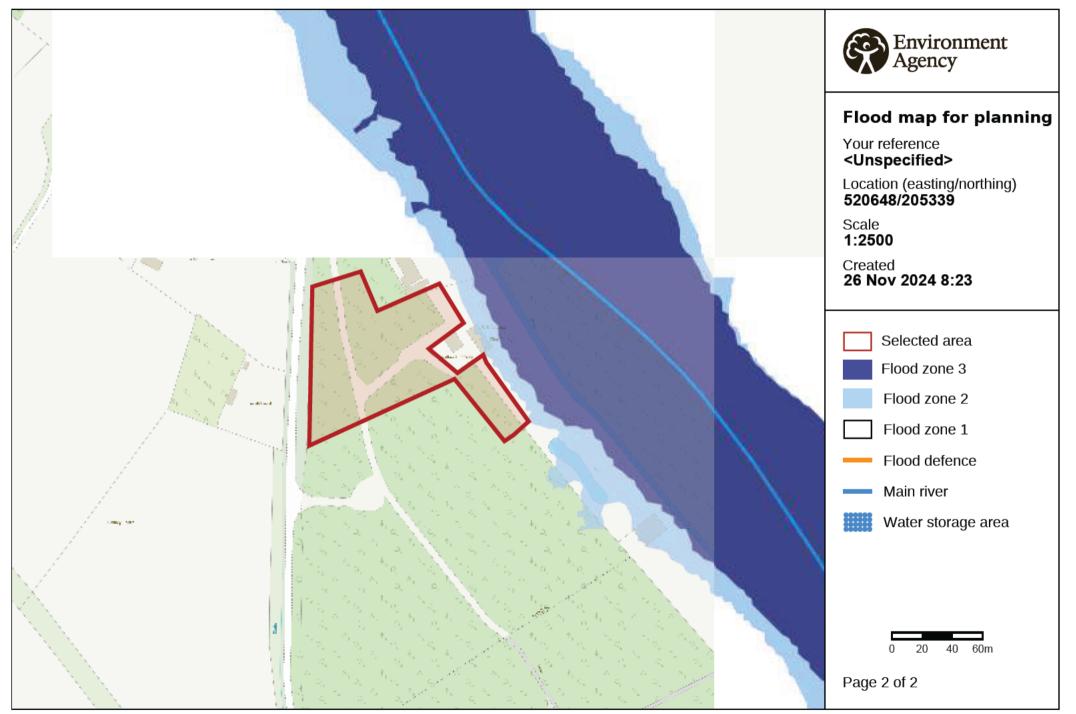
Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence **which** sets out the terms and conditions for using government data. https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2024 OS AC0000807064. https://flood-map-for-planning.service.gov.uk/os-terms



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Appendix: D – Topographical Survey

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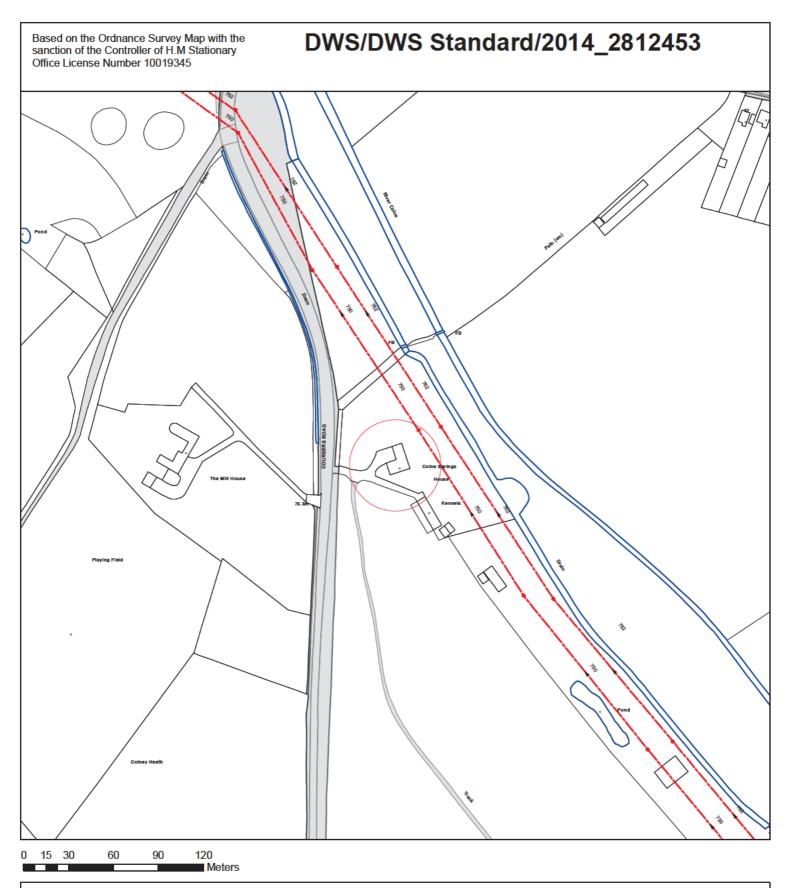


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| LEGEN | | | | | |
| | | IC | Inspectio | n Chambe | r |
| B BB BP BT | Bollard Belisha Beacon Block Paving British Telecom Cover | LP MH MK PB | Lamp Po Manhole Marker F Post Boy | ost Cost | |
| CATV CB CF CCTV CONC | Cable Television Cover Control Box Soffit/Ceiling Fall CCTV Cover Concrete | PL PM O/H Rad RE | Pavemer Parking I Overhea Radiator Rodding | Meter d | |
| CPS DK DP EB ER | Concrete Paving Slab Drop Kerb Down Pipe Electrical Box/Panel Earth Rod | RS RWP SB SP SVP | Road Sig Rain Wa Steel Be Sign Pos Soil Ven | gn ter Pipe am st | |
| FB FH G GV | Flower Bed Fire Hydrant Gully Gas Valve | TMAC TP TPS VP | Tarmac Telegrap Tactile P Vent Pip | Surface oh Pole aving Slab e | |
| Ht <u>Levels</u> AHL | Height Arch Head Level | WV SL | Water Va | alve iling Level | |
| ASL CL DHL FL | Arch Spring Level Cover Level Door Head Level Floor Level | TFL TWL UBL WHL | Top of F Top of W Undersid Window | ence Level /all Level le of Beam Head Leve | Level |
| IL <u>Arrows</u> | Invert Level Fall or Slope Down | WSL | Window | Sill Level | |
| \rightarrow | Step, Ramp or Slope U Arched | р | | | |
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| Addre | ess Unit 10 Chiltern Cou Asheridge Road | | -3988 | | |
| . | Chesham Bucks HP5 2PX | | | | |
| Em | ne 020 8204 1087 nail info@ridgewaysurve | | ASSOCI | ATION | |
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Appendix: E – Thames Water Sewer Mapping

FRA and SuDS Report | Eco-Living Cottages, Colney Heath, St Albans, AL4 0PB

TRANSPORT PLANNING I HIGHWAYS AND DRAINAGE FLOOD RISK 1st Floor Millers House, Roydon Road, Stanslead Abbotts, SG12 BHN. Tel 01920 871 777 e: contact@eastp.co.uk www.eastp.co.uk



The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified before any works are undertaken. Crown copyright Reserved

| Scale: | 1:2524 | Comments: |
|-----------------|---------------|-----------|
| Width: | 500m | |
| Printed By: | sradhak | |
| Print Date: | 10/07/2014 | |
| Map Centre: | 520617,205431 | |
| Grid Reference: | TL2005SE | |
| | | |

Appendix: F – Long Term Flood Mapping

FRA and SuDS Report | Eco-Living Cottages, Colney Heath, St Albans, AL4 0PB

TRANSPORT PLANNING HIGHWAYS AND DRAINAGE FLOOD RISK 1st Floor Millers House, Roydon Road, Stanslead Abbotts, SG12 BHN. Tel 01920 871 777 e: contact@eestp.co.uk www.eestp.co.uk

Surface Water Flood Extent



Surface water



High

More than 3.3% chance each year

Medium

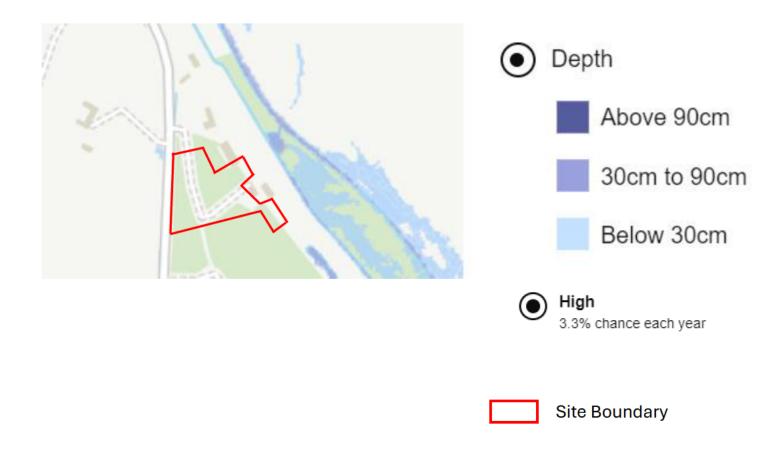
Between 1% and 3.3% chance each year

Low

Between 0.1% and 1% chance each year

Site Boundary

High Risk: Surface Water Depth



Medium Risk: Surface Water Depth



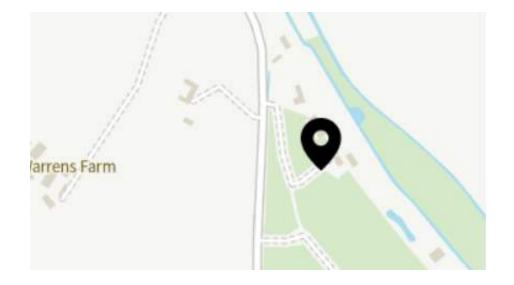


Low Risk: Surface Water Depth





Risk of Reservoir Flooding



Reservoirs





When river levels are normal

When there is also flooding from rivers

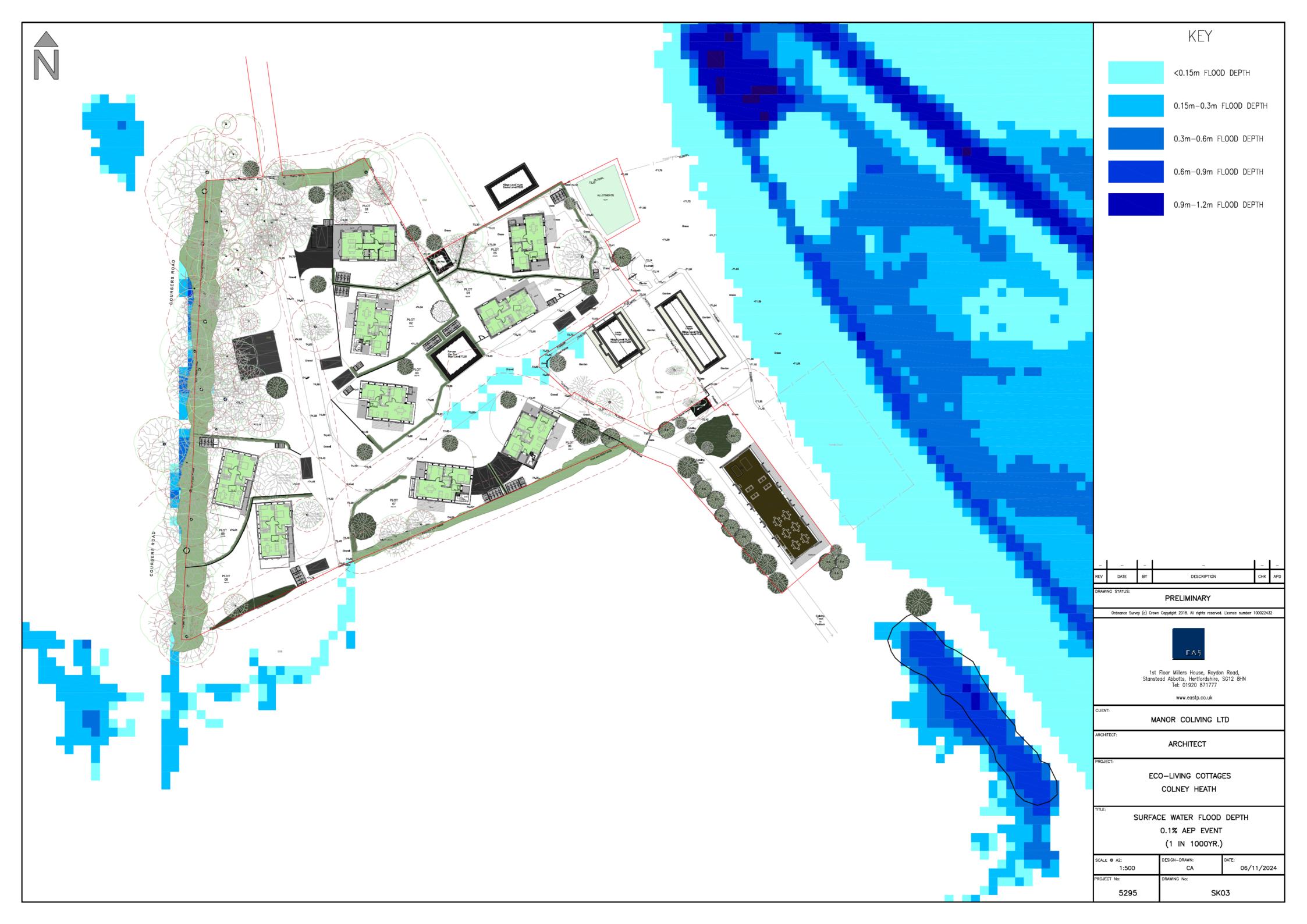


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Appendix: G – DEFRA Surface Water Flood Mapping

FRA and SuDS Report | Eco-Living Cottages, Colney Heath, St Albans, AL4 0PB

TRANSPORT PLANNING HIGHWAYS AND DRAINAGE FLOOD RISK 1st Floor Millers House, Roydon Road, Stanslead Abbotts, SG12 BHN. Tel 01920 871 777 e: contact@eestp.co.uk www.eestp.co.uk



Appendix: H – Causeway Flow Outputs – Greenfield Run-Off Rates

FRA and SuDS Report | Eco-Living Cottages, Colney Heath, St Albans, AL4 0PB

TRANSPORT PLANNING 📄 HIGHWAYS AND DRAINAGE 📑 FLOOD RISK 1st Floor Millers House, Roydon Roed, Stanstead Abbotts, SG12 BHN. Tel 01920 871 777 🖃 contact@eastp.co.uk www.eastp.co.uk

| EAS Transport Planning Ltd | EAS Transport Planning Ltd | File: GRR.pfdPage 1Network: Storm NetworkStephen Adams01/11/2024 |
|---|--|---|
| | Des | gn Settings |
| | Rainfall Methodology FEH-2 Return Period (years) 100 Additional Flow (%) 0 CV 1.000 Time of Entry (mins) 5.00 of Concentration (mins) 30.00 aximum Rainfall (mm/hr) 50.0 | Connection Type Level Soffits Minimum Backdrop Height (m) 0.200 Preferred Cover Depth (m) 1.200 Include Intermediate Ground √ |
| | Simula | ation Settings |
| Rainfall Methodolo Rainfall Eve Summer Winter Analysis Spe Skip Steady Sta | nts Singular Additional Sto CV 1.000 Start CV 1.000 Check Disc eed Normal | Time (mins)1440 30 year (l/s) 8.1 brage (m³/ha)0.0 100 year (l/s) 10.6 ing Level (m)Check Discharge Volume \checkmark harge Rate(s) \checkmark 100 year 360 minute (m³) 121 1 year (l/s) 2.5 2 year (l/s) 3.0 |
| 15 30 | Stor 60 120 180 240 | n Durations 360 480 600 720 960 1440 |
| | Return Period Climate Chang (years) (CC %) | e Additional Area Additional Flow (A %) (Q %) |
| | | 0 0 0 0 0 0 |
| | | |
| | 30 4 | |
| | 100 100 4 | 0 0 0 0 0 0 |
| | Pre-develop | nent Discharge Rate |
| Pc | Greenfield Method ReFI | and, Wales, NI Q 2 year (l/s) 3.0 Q 30 year (l/s) 8.1 |
| | Pre-developm | ent Discharge Volume |
| Positi | Site Makeup Greenfi Greenfield Method ReFH2 Region England Include Baseflow x ively Drained Area (ha) 1.000 | eld Return Period (years) 100 Storm Duration (mins) 360 , Wales, NI Betterment (%) 0 Runoff Volume (m ³) 121 |
| | | |

Appendix: I – Causeway Flow Outputs – SuDS Strategy

FRA and SuDS Report | Eco-Living Cottages, Colney Heath, St Albans, AL4 0PB

TRANSPORT PLANNING HIGHWAYS AND DRAINAGE FLOOD RISK 1st Floor Millers House, Roydon Road, Stanslead Abbotts, SG12 BHN. Tel 01920 871 777 e: contact@eestp.co.uk www.eestp.co.uk

| | -1 | | | | | | | | 1 | |
|-----|----------------------------------|----------|----------------|------------------|----------------------|------------------|----------------|--------------------------|----------------------------|--------------|
| | EAS Transport Planning Ltd | | | | lcs (2).pfd | | | | Page 1 | |
| | 1st Floor Millers House | | | | k: SuDS | | | | | |
| EAS | Roydon Road Stanstead Abbotts | | | Cecily A | | | | | | |
| | | | | 02/12/1 | 2024 | | | | | |
| | | | | | D | esign Setting | <u>şs</u> | | | |
| | Rainfall Methodology | FEH-22 | Maximu | ım Time o | of Concen | tration (mins | s) 30.00 | Р | referred Cover Depth (m) | 0.900 |
| | Return Period (years) | | | | | infall (mm/hi | | | ude Intermediate Ground | \checkmark |
| | Additional Flow (%) | 0 | | Ν | ۱inimum ۱ | Velocity (m/s | 5) 1.00 | Enforce | best practice design rules | x |
| | CV | 1.000 | | | | nnection Typ | | 5 | | |
| | Time of Entry (mins) | 5.00 | | Minimu | m Backdro | op Height (m | n) 0.600 | | | |
| | | | | | | <u>Nodes</u> | | | | |
| | | | | | • | . | - | | | |
| | | Name | Area (ha) | T of E (mins) | Cover Level | Diameter (mm) | Easting (m) | Northing (m) | Depth (m) | |
| | | 1 | 0.004 | 5.00 | (m) 75.350 | 600 | 520621.907 | 205376.363 | 1.050 | |
| | | 2 | 0.004 | 5.00 | 75.350 | 600 | | 205367.786 | 1.116 | |
| | | 3 | 0.004 | 5.00 | 75.350 | 600 | | 205375.214 | 1.050 | |
| | | 4 | 0.004 | 5.00 | 75.350 | 600 | | 205367.800 | 1.257 | |
| | | 5 | 0.000 | 5.00 | 75.150 | 600 | | 205366.899 | 1.161 | |
| | | 6 | 0.004 | 5.00 | 74.460 | 600 | 520620.742 | 205355.283 | 1.050 | |
| | | 7 | 0.004 | 5.00 | 74.460 | 600 | 520621.940 | 205346.351 | 1.189 | |
| | | 8 | 0.004 | 5.00 | 74.460 | 600 | | 205354.630 | 1.050 | |
| | | 9 | 0.004 | 5.00 | 74.460 | 600 | | 205346.460 | 1.286 | |
| | | 10 | 0.000 | 5.00 | 74.750 | 600 | | 205343.674 | 1.657 | |
| | | 11 | 0.003 | 5.00 | 75.140 | 600 | | 205320.618 | 1.050 | |
| | | 12 13 | 0.003 | 5.00 | 75.140 75.140 | 600 600 | | 205320.146 205337.406 | 1.138 1.050 | |
| | | 13 | 0.003 0.003 | 5.00 5.00 | 75.140 75.140 | 600 600 | | 205337.408 | 1.267 | |
| | | 15 | 0.005 | 5.00 | 74.000 | 600 | | 205332.730 | 1.096 | |
| | | 16 | | 5.00 | 74.900 | 600 | | 205298.887 | 1.050 | |
| | | 17 | 0.007 | 5.00 | 74.780 | 600 | | 205299.413 | 1.050 | |
| | | 18 | | 5.00 | 75.100 | 600 | | 205312.149 | 1.050 | |
| | | 19 | 0.007 | 5.00 | 74.600 | 600 | 520598.317 | 205312.811 | 1.050 | |
| | | 20 | | | 74.000 | 600 | | 205323.301 | 1.185 | |
| | | 21 | 0.004 | 5.00 | 74.590 | 600 | | 205330.256 | 1.050 | |
| | | 22 | 0.004 | 5.00 | 74.590 | 600 | | 205329.332 | 1.178 | |
| | | 23 24 | 0.004 | 5.00 | 74.590 74.590 | 600 600 | | 205326.741 205325.902 | 1.050 1.279 | |
| | | 24 | 0.004 0.004 | 5.00 5.00 | 74.390 74.390 | 600 600 | | 205325.902 | 1.050 | |
| | | 26 | 0.004 | 5.00 | 74.390 | 600 | | 205309.873 | 1.101 | |
| | | 27 | | | 74.000 | 600 | | 205323.301 | 1.364 | |
| | | 28 | 0.004 | 5.00 | 74.390 | 600 | | 205306.324 | 1.050 | |
| | | 29 | 0.004 | 5.00 | 74.390 | 600 | 520606.910 | 205309.777 | 1.139 | |
| | | 30 | 0.004 | 5.00 | 74.150 | 600 | | 205306.454 | 1.050 | |
| | | 31 | 0.004 | 5.00 | 74.150 | 600 | | 205309.682 | 1.137 | |
| | | 32 | | 5.00 | 74.000 | 600 | | 205319.842 | 1.574 | |
| | | 33 | 0.009 | 5.00 | 74.250 | 600 600 | | 205378.386 | 1.050 | |
| | | 34 35 | 0.008 0.008 | 5.00 5.00 | 74.250 74.250 | 600 600 | | 205379.675 205364.986 | 1.141 1.050 | |
| | | 36 | 0.008 | 5.00 | 74.250 | 600 | | 205365.854 | 1.279 | |
| | | 37 | 0.007 | 5.00 | 74.250 | 600 | | 205364.175 | 1.050 | |
| | | 38 | | | 74.250 | 600 | | 205356.568 | 1.136 | |
| | | 39 | | | 74.000 | 600 | 520656.192 | 205351.565 | 1.172 | |
| | | 40 | 0.007 | 5.00 | 74.000 | 600 | 520637.298 | 205365.741 | 1.050 | |
| | | 41 | | | 74.000 | 600 | | 205357.398 | 1.136 | |
| | | 42 | 0.156 | 5.00 | 74.000 | | | 205330.483 | 1.125 | |
| | | 43 | 0.007 | 5.00 | 74.000 | 600 | | 205340.276 | 1.735 | |
| | | 44 45 | 0.004 0.004 | 5.00 5.00 | 74.150 74.150 | 600 600 | | 205312.911 205318.315 | 1.050 1.133 | |
| | | 45 | 0.004 | 5.00 | 73.600 | 600 | | 205321.899 | 1.392 | |
| | | 48 | 0.008 | 5.00 | 72.570 | 600 | 520714.424 | 205347.877 | 0.750 | |
| | | 48 49 | 0.008 | 5.00 | 72.570 | 600 600 | | 205347.877 205335.202 | 0.750 | |
| | | 49 50 | 0.008 | 5.00 | 72.570 | 600 | | 205333.202 | 1.017 | |
| | | 51 | 0.008 | | 72.570 | 600 | | 205317.977 | 1.109 | |
| | | 52 | | | 72.420 | 600 | | 205302.897 | 1.139 | |
| 1 | | E 2 | | | 72 000 | | 520720.004 | | 1 000 | |

| 53_001 | /1.000 | 1200 | 520760.498 | 205282.479 | 0.295 |
|--------|--------|------|------------|------------|-------|
| 47 | 72.420 | 1200 | 520706.181 | 205317.402 | 1.001 |

72.000

53

1.00

520730.964 205283.403 1.000

<u>Links (Results)</u>

| Name | Vel | Сар | Flow | US | DS | Σ Area | Σ Add | Pro | Pro |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|----------|
| | (m/s) | (I/s) | (I/s) | Depth | Depth | (ha) | Inflow | Depth | Velocity |
| | | | | (m) | (m) | | (I/s) | (mm) | (m/s) |
| 1.000 | 1.004 | 17.7 | 0.7 | 0.900 | 0.966 | 0.004 | 0.0 | 21 | 0.492 |
| 1.001 | 1.003 | 17.7 | 1.4 | 0.966 | 1.107 | 0.008 | 0.0 | 29 | 0.605 |
| 2.000 | 1.687 | 29.8 | 0.7 | 0.900 | 1.107 | 0.004 | 0.0 | 16 | 0.705 |
| 1.002 | 1.003 | 17.7 | 2.9 | 1.107 | 1.011 | 0.016 | 0.0 | 41 | 0.739 |
| 1.003 | 1.174 | 20.7 | 2.9 | 1.011 | 0.900 | 0.016 | 0.0 | 38 | 0.829 |
| 3.000 | 1.003 | 17.7 | 0.7 | 0.900 | 1.039 | 0.004 | 0.0 | 21 | 0.492 |
| 3.001 | 1.005 | 17.8 | 1.4 | 1.039 | 1.136 | 0.008 | 0.0 | 29 | 0.606 |
| 4.000 | 1.332 | 23.5 | 0.7 | 0.900 | 1.136 | 0.004 | 0.0 | 18 | 0.594 |
| 3.002 | 1.005 | 17.8 | 2.9 | 1.136 | 1.507 | 0.016 | 0.0 | 41 | 0.740 |
| 1.004 | 1.002 | 17.7 | 5.8 | 1.507 | 0.946 | 0.032 | 0.0 | 59 | 0.897 |
| 5.000 | 1.003 | 17.7 | 0.5 | 0.900 | 0.988 | 0.003 | 0.0 | 18 | 0.446 |
| 5.001 | 1.002 | 17.7 | 1.1 | 0.988 | 1.117 | 0.006 | 0.0 | 25 | 0.550 |

| EAS Transport Planning Ltd 1st Floor Millers House | | | | Calcs (2 work: Su | | | | | | Page 2 |
|---|------------------|----------------|--------------|----------------------|----------------|----------------|----------------|-----------------|--------------|---------------------------|
| EAS Roydon Road Stanstead Abbotts | | | Ceci | ly Austi L2/2024 | n | | | | | |
| | | | | | Links | (Results) | 1 | | | |
| | Name | Vel (m/s) | Cap (I/s) | Flow (I/s) | US Depth | DS Depth | Σ Area (ha) | Σ Add Inflow | Pro Depth | Pro Velocity |
| | | | | | (m) | (m) | | (I/s) | (mm) | (m/s) |
| | 6.000 5.002 | 1.563 2.797 | 27.6 49.4 | 0.5 2.2 | 0.900 1.117 | 1.117 0.946 | 0.003 0.012 | 0.0 0.0 | 14 21 | 0.604 1.406 |
| | 1.002 | 1.000 | 49.4 17.7 | 2.2 8.0 | 0.946 | 1.035 | 0.012 | 0.0 | 21 71 | 0.975 |
| | 7.000 | 1.100 | 19.4 | 0.0 | 0.900 | 0.900 | 0.000 | 0.0 | 0 | 0.000 |
| | 7.001 | 1.165 | 20.6 | 1.3 | 0.900 | 0.900 | 0.007 | 0.0 | 25 | 0.650 |
| | 8.000 | 2.397 | 42.4 | 0.0 | 0.900 | 0.900 | 0.000 | 0.0 | 0 | 0.000 |
| | 7.002 | 2.312 | 40.9 | 2.5 | 0.900 | 1.035 | 0.014 | 0.0 | 25 | 1.295 |
| | 1.006 9.000 | 1.003 1.001 | 17.7 17.7 | 10.5 0.7 | 1.035 0.900 | 1.214 1.028 | 0.058 0.004 | 0.0 | 83 21 | 1.043 0.490 |
| | 9.000 9.001 | 1.001 | 17.7 | 0.7 1.4 | 0.900 1.028 | 1.028 | 0.004 | 0.0 0.0 | 21 29 | 0.606 |
| | 10.000 | 1.462 | 25.8 | 0.7 | 0.900 | 1.129 | 0.004 | 0.0 | 17 | 0.638 |
| | 9.002 | 2.262 | 40.0 | 2.9 | 1.129 | 0.664 | 0.016 | 0.0 | 27 | 1.320 |
| | 11.000 | 1.007 | 17.8 | 0.7 | 0.900 | 0.951 | 0.004 | 0.0 | 21 | 0.494 |
| | 11.001 | 2.262 | 40.0 | 1.4 | 0.951 | 1.023 | 0.008 | 0.0 | 20 | 1.076 |
| | 1.007 12.000 | 1.002 1.005 | 17.7 17.8 | 14.8 0.7 | 1.214 0.900 | 1.349 0.989 | 0.082 0.004 | 0.0 0.0 | 105 21 | 1.119 0.492 |
| | 12.000 | 2.337 | 41.3 | 1.4 | 0.900 | 1.349 | 0.004 | 0.0 | 19 | 1.090 |
| | 13.000 | 1.005 | 17.8 | 0.7 | 0.900 | 0.987 | 0.004 | 0.0 | 21 | 0.492 |
| | 13.001 | 2.006 | 35.5 | 1.4 | 0.987 | 1.349 | 0.008 | 0.0 | 21 | 0.989 |
| | 1.008 | 1.005 | 40.0 | 17.7 | 1.349 | 1.435 | 0.098 | 0.0 | 105 | 0.977 |
| | 14.000 | 1.000 | 17.7 | 0.0 | 0.900 | 0.991 | 0.000 | 0.0 | 0 | 0.000 |
| | 14.001 15.000 | 1.003 1.541 | 17.7 27.2 | 1.4 1.4 | 0.991 0.900 | 1.129 1.129 | 0.008 0.008 | 0.0 0.0 | 29 24 | 0.605 0.824 |
| | 14.002 | 1.000 | 17.7 | 2.9 | 1.129 | 1.022 | 0.008 | 0.0 | 24 41 | 0.736 |
| | 16.000 | 1.003 | 17.7 | 1.3 | 0.900 | 0.986 | 0.007 | 0.0 | 27 | 0.582 |
| | 16.001 | 2.348 | 41.5 | 1.3 | 0.986 | 1.022 | 0.007 | 0.0 | 18 | 1.052 |
| | 14.003 | 1.950 | 34.5 | 4.2 | 1.022 | 1.435 | 0.023 | 0.0 | 35 | 1.317 |
| | 17.000 | 1.004 | 17.8 | 1.3 | 0.900 | 0.986 | 0.007 | 0.0 | 27 | 0.583 |
| | 17.001 18.000 | 2.006 1.307 | 35.5 52.0 | 1.3 28.2 | 0.986 0.900 | 1.435 0.915 | 0.007 0.156 | 0.0 0.0 | 20 118 | 0.954 1.333 |
| | 18.000 | 1.008 | 71.3 | 28.2 52.6 | 1.435 | 1.092 | 0.130 | 0.0 | 192 | 1.099 |
| | 19.000 | 1.005 | 17.8 | 0.7 | 0.900 | 0.983 | 0.004 | 0.0 | 21 | 0.492 |
| | 19.001 | 2.262 | 40.0 | 1.4 | 0.983 | 0.601 | 0.008 | 0.0 | 20 | 1.076 |
| | 1.010 | 2.511 | 177.5 | 55.3 | 1.087 | 0.701 | 0.306 | 0.0 | 115 | 2.226 |
| | 20.000 | 1.005 | 17.8 | 1.4 | 0.600 | 0.665 | 0.008 | 0.0 | 29 | 0.606 |
| | 20.001 | 1.005 | 17.8 | 2.9 | 0.679 | 0.959 | 0.016 | 0.0 | 41 | 0.740 |
| | 21.000 | 1.005 | 17.8 | 1.4 | 0.867 | 0.959 | 0.008 | 0.0 | 29 | 0.606 |
| | 20.002 1.012 | 1.005 1.010 | 17.8 71.4 | 5.8 61 1 | 0.959 | 0.839 | 0.032 | 0.0 | 59 214 | 0.899 |
| | 1.012 | 1.010 | 71.4 17.7 | $61.1 \\ 61.1$ | 0.839 0.850 | 0.532 0.145 | 0.338 0.338 | 0.0 0.0 | 214 150 | 1.130 1.022 |
| | 1.013 | 1.010 | 71.4 | 55.3 | 0.701 | 0.839 | 0.306 | 0.0 | 199 | 1.112 |
| | | | | | <u>Simulat</u> | ion Setti | ngs | | | |
| Rainfall Methodology | FEH-22 | | Winte | er CV | 1.000 | Dra | in Down | Time (mir | ns) 4320 | Check Discharge Rate(s) x |
| Rainfall Events | Singular | An | alysis Sp | | Normal | | | age (m³∕h | | Check Discharge Volume x |
| Summer CV | - | | | State | | | | ng Level (r | | |

| | | | | | | Duratio | | | | | |
|----|----|----|-----|-----|-----|---------|-----|-----|-----|-----|------|
| 15 | 30 | 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 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 100 | 40 | 0 | 0 |
| 30 | 40 | 0 | 0 | | | | |

Node 42 Online Orifice Control

| Flap Valve | х | Replaces Downstream Link | \checkmark | Diameter (m) | 0.050 | |
|-----------------|--------|--------------------------|--------------|-----------------------|-------|--|
| Downstroom Link | 10 000 | Invert Lovel (m) | 72 075 | Discharge Coefficient | 0 600 | |

Downstream Link 18.000

Invert Level (m) 72.875 Discharge Coefficient 0.600

Node 53 Online Hydro-Brake[®] Control

| Flap Valve | х | Objective | (HE) Minimise upstream storage |
|--------------------------|--------------|-------------------------|--------------------------------|
| Downstream Link | 1.013 | Sump Available | \checkmark |
| Replaces Downstream Link | \checkmark | Product Number | CTL-SHE-0045-8000-0700-8000 |
| Invert Level (m) | 71.000 | Min Outlet Diameter (m) | 0.075 |
| Design Depth (m) | 0.700 | Min Node Diameter (mm) | 1200 |
| Design Flow (I/s) | 0.8 | | |

Node 42 Carpark Storage Structure

Base Inf Coefficient (m/hr) 0.00000 Side Inf Coefficient (m/hr) 0.00000 Safety Factor 2.0

Width (m) 28.000 Porosity 0.30 Invert Level (m) 73.370 Length (m) 28.000 Time to half empty (mins) 208 Slope (1:X) 100.0

Depth (m) 0.500 Inf Depth (m)

| EAS Transport Planning Ltd 1st Floor Millers House | | File: Calcs (2).pfd Network: SuDS | Page 3 | |
|---|--|--|--|--|
| Roydon Road | | Cecily Austin | | |
| Stanstead Abbotts | | 02/12/2024 | | |
| | | Node 53 Depth/Area Storage Structure | | |
| | Base Inf Coefficient (m/hr) Side Inf Coefficient (m/hr) | 0.00000 Safety Factor 2.0 0.00000 Porosity 1.00 Time | Invert Level (m) 71.000 to half empty (mins) 2880 | |
| | (m) | | (m²) | |
| | 0.00 | 00 453.0 0.0 1.000 809.0 | 0.0 | |
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Node Event

Flood Status

Node

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.90%

US Peak Level Depth Inflow

| Node Event | US | Peak | Level | Depth | Inflow | Node | Flood | Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|--|---|--|---|-----------|--|--|---|--------|--|--|---|---|-----------|--|---|---|--------|--|---|--|---|-----------|--|--|--|--------|---|---|---|---|-----------|---|--|--|--------|--|--|--|---|-----------|---|---|--|--------|--|---|---|---|-----------|---|--|---|--------|--|---|---|---|-----------|--|---|--|--------|--|--|---|--|-----------|--|---|---|--------|---|---|---|---|-----------|---|---|---|------------------|--|--|---|--|-----------|
| | Node | • • | (m) | (m) | (l/s) | Vol (m ³) | (m³) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 74.320 | 0.020 | 0.7 | 0.0058 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 74.262 | 0.028 | 1.4 | 0.0081 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 74.316 | 0.016 | 0.7 | 0.0045 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 74.135 | 0.042 | 2.8 | 0.0119 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 74.026 | 0.037 | 2.8 | 0.0106 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.430 | 0.020 | 0.7 | 0.0058 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.299 | 0.028 | 1.4 | 0.0080 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.428 | 0.018 | 0.7 | 0.0050 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.215 | 0.041 | 2.8 | 0.0116 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 10 | 11 | 73.151 | 0.058 | 5.5 | 0.0163 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 11 | 11 | 74.107 | 0.017 | 0.5 | 0.0049 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 12 | 11 | 74.027 | 0.025 | 1.0 | 0.0071 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 13 | 11 | 74.104 | 0.014 | 0.5 | 0.0040 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 14 | 11 | 73.894 | 0.021 | 2.0 | 0.0058 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 15 | 12 | 72.977 | 0.073 | 7.5 | 0.0207 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 16 | 1 | 73.850 | 0.000 | 0.0 | 0.0000 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 17 | 11 | 73.755 | 0.025 | 1.2 | 0.0071 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 18 | 1 | 74.050 | 0.000 | 0.0 | 0.0000 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 19 | 11 | 73.575 | 0.025 | 2.4 | 0.0070 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 20 | 12 | 72.896 | 0.081 | 9.6 | 0.0229 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.560 | 0.020 | 0.7 | 0.0058 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 22 | 11 | 73.441 | 0.029 | 1.4 | 0.0082 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.557 | 0.017 | 0.7 | 0.0048 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.340 | 0.029 | 2.8 | 0.0083 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.361 | 0.021 | 0.7 | 0.0059 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.309 | 0.020 | 1.4 | 0.0056 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 12 | 72.741 | 0.105 | 13.4 | 0.0298 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.361 | 0.021 | 0.7 | 0.0059 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 10 | 73.270 | 0.019 | 1.4 | 0.0054 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 11 | 73.121 | 0.021 | 0.7 | 0.0059 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 10 | 73.034 | 0.021 | 1.4 | 0.0058 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 12 | 72.531 | 0.105 | 15.9 | 0.0296 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 1 | 73.200 | 0.000 | 0.0 | 0.0000 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 10 | 73.137 | 0.028 | 1.4 | 0.0079 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 10 | 73.223 | 0.023 | 1.4 | 0.0065 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 10 | 73.012 | 0.023 | 2.7 | 0.0117 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | 10 | 73.228 | 0.041 | 1.2 | 0.00117 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 | | | 1.2 | | | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | | | 73.132 72.863 | 0.018 0.035 | 3.9 | 0.0050 0.0100 | 0.0000 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summe | er 39 | 11 | 12.003 | 0.055 | | | | UK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 0.000 | 0.0 | 0.0100 | 0.0000 | U.N. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Link Event | | Link D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Link Event | | | DS Out | flow V | elocity | Flow/Cap | Link | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) | Node | No | DS Out | flow V /s) | elocity (m/s) | Flow/Cap | Link Vol (m³) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 1 | Node 1 | Nc .000 2 | DS Out | flow V /s) 0.7 | elocity (m/s) 0.378 | Flow/Cap 0.039 | Link Vol (m³) 0.0124 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 1 15 minute summer 1 15 minute summer 2 | Node 1 2 1 | No .000 2 .001 4 | DS Out | flow V /s) 0.7 1.4 | elocity (m/s) 0.378 0.445 | Flow/Cap 0.039 0.079 | Link Vol (m³) 0.0124 0.0449 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer | Node 1 1 2 1 3 2 | No .000 2 .001 4 .000 4 | DS Out | flow V /s) 0.7 1.4 0.7 | elocity (m/s) 0.378 0.445 0.312 | Flow/Cap 0.039 0.079 0.023 | Link Vol (m ³) 0.0124 0.0449 0.0186 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 1 3 2 4 1 | Nc .000 2 .001 4 .000 4 .002 5 | DS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 | elocity (m/s) 0.378 0.445 0.312 0.761 | Flow/Cap 0.039 0.079 0.023 0.158 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)115 minute summer115 minute summer115 minute summer115 minute summer115 minute summer115 minute summer1 | Node 1 2 1 3 2 4 1 5 1 | Nc .000 2 .001 4 .000 4 .002 5 .003 10 | DS Out ode (I | flow V /s) 1.4 0.7 2.8 2.7 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 1 3 2 4 1 5 1 5 3 | Nc .000 2 .001 4 .000 4 .002 5 .003 10 .000 7 | DS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 2.7 0.7 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 2 1 3 2 4 1 5 1 5 3 7 3 | Nc .000 2 .001 4 .000 4 .002 5 .003 10 .000 7 .001 9 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 1 5 3 7 3 3 4 | Nc .000 2 .001 4 .000 4 .002 5 .003 10 .000 7 .001 9 .000 9 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 2 1 3 2 4 1 5 1 5 3 7 3 3 4 9 3 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 9 .002 10 | OS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 1 5 3 7 3 3 4 9 3 10 1 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .002 10 .001 9 .002 10 .002 10 .002 10 | OS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 2 1 2 1 1 3 2 1 5 1 1 5 3 3 3 4 3 0 3 1 10 1 5 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .002 10 .001 9 .002 10 .002 10 .004 15 .000 12 | DS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 2 2 1 3 2 4 1 5 3 7 3 3 4 9 3 10 1 11 5 12 5 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 9 .002 10 .004 15 .000 12 .001 14 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 2 2 1 3 2 4 1 5 3 7 3 3 4 9 3 10 1 11 5 12 5 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .002 10 .001 9 .002 10 .002 10 .004 15 .000 12 | DS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 2 2 1 3 2 4 1 5 3 7 3 3 4 9 3 10 1 12 5 13 6 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 9 .002 10 .004 15 .000 12 .001 14 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 1 5 3 4 3 9 3 10 1 5 5 12 5 13 6 14 5 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 9 .002 10 .000 12 .001 14 .000 14 | DS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 3 4 3 0 3 10 1 11 5 12 5 13 6 14 5 15 1 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .002 10 .000 7 .001 9 .002 10 .004 15 .001 14 .002 15 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 3 6 3 7 3 8 4 9 3 10 1 11 5 12 5 13 6 14 5 15 1 16 7 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 9 .002 10 .004 15 .000 14 .000 14 .002 15 .000 2 | DS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.028 0.028 0.056 0.018 0.040 0.420 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 2 1 2 1 1 5 1 5 3 4 3 5 3 6 3 10 1 5 5 12 5 13 6 14 5 15 1 16 7 17 7 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .002 10 .004 15 .000 12 .001 14 .002 15 .003 14 .002 15 .005 20 .005 20 .000 17 | DS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.028 0.056 0.018 0.040 0.420 0.000 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 2 1 2 1 1 3 2 1 5 1 3 6 3 3 7 3 4 9 3 1 11 5 1 12 5 1 12 5 1 14 5 1 15 1 1 16 7 1 17 7 1 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 9 .002 10 .004 15 .000 14 .000 14 .000 14 .005 20 .005 20 .000 17 .001 19 | DS Out ode (I | flow V /s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.450 0.844 0.815 0.000 0.629 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 1 5 3 7 3 8 4 9 3 10 1 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 9 .002 10 .001 9 .002 10 .004 15 .000 12 .001 14 .002 15 .005 20 .005 20 .000 17 .001 19 .000 19 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.450 0.844 0.815 0.000 0.629 0.000 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 1 5 3 4 3 6 3 10 1 5 5 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .002 10 .001 9 .002 10 .004 15 .005 12 .001 14 .002 15 .005 20 .000 17 .001 19 .002 20 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0805 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 2 1 2 1 3 2 4 1 5 3 6 3 7 3 8 4 9 3 10 1 11 5 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .002 10 .001 9 .002 10 .004 15 .005 20 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .006 27 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.040 0.420 0.040 0.420 0.000 0.058 0.000 0.059 0.547 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0805 0.2055 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 2 1 2 1 1 3 2 1 5 1 1 5 3 4 6 3 3 10 1 5 12 5 1 13 6 7 14 5 1 15 1 1 16 7 1 16 7 1 18 8 9 7 19 7 1 9 20 1 9 2 21 9 2 9 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 7 .001 9 .002 10 .004 15 .000 12 .001 14 .002 15 .005 20 .000 17 .001 19 .002 20 .001 19 .002 20 .006 27 .000 22 | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 0.7 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.629 0.000 0.729 0.845 0.371 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.420 0.000 0.058 0.000 0.059 0.547 0.040 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0805 0.2055 0.0246 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 2 1 2 1 1 5 1 5 3 7 3 8 4 9 3 10 1 11 5 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .000 9 .001 9 .001 9 .001 12 .001 14 .000 14 .000 14 .000 17 .001 19 .000 19 .002 20 .006 27 .000 22 .001 24 | DS Out ode (I | flow V (s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.629 0.000 0.729 0.845 0.371 0.579 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.420 0.000 0.58 0.000 0.547 0.040 0.079 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0255 0.0246 0.0244 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 3 7 3 8 4 9 3 10 1 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 24 9 | Nc .000 2 .001 4 .002 5 .003 10 .000 7 .001 9 .001 9 .001 9 .001 9 .001 10 .001 12 .001 14 .002 15 .003 10 .001 14 .002 15 .005 20 .000 17 .001 19 .002 20 .002 20 .003 27 .004 24 .000 24 | DS Out ode (I | flow V (s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 1.2 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.2 0.0 7.4 0.0 1.2 0.0 0.7 1.4 0.7 1.4 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.0 1.2 0.7 1.4 0.7 1.4 0.0 1.2 0.7 1.4 0.0 0.5 2.0 7.4 0.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.845 0.000 0.629 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.420 0.000 0.58 0.000 0.558 0.000 0.547 0.040 0.079 0.547 0.040 0.079 0.027 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0255 0.0246 0.0244 0.0193 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 3 7 3 8 4 9 3 10 1 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 12 9 12 9 12 9 12 9 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 12 1 | Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .001 9 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .003 24 .004 27 .005 27 .007 22 .001 27 .002 27 .003 27 .004 27 .007 32 .007 32 .007 32 .003 29 <tr tbl=""> <td>DS Out ode (I</td><td>flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.5 2.0 7.4 0.0 1.2 0.7 1.4 0.7 1.4 0.7 1.4 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.0 1.2 0.7 1.4 1.5 0.7 1.4</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.450 0.844 0.815 0.000 0.629 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.040 0.059 0.547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.039 0.035 0.039 0.035 0.039 0.035 0.039 0.039 0.035 0.039 0.039 0.035 0.039 0.039 0.035 0.039 0.039 0.035 0.039 0.039 0.035 0.039 0.0</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0255 0.0246 0.0244 0.0255 0.0246 0.0244 0.0193 0.0057 0.0072 0.0123 0.1721 0.0124</td><td>Discharge</td></tr> <tr><td>(Upstream Depth)15 minute summer15 minute summer</td><td>Node 1 1 1 2 1 3 2 4 1 5 1 5 3 7 3 8 4 9 3 10 1 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 24 9 25 1 26 1 27 1 28 1 29 1 30 1</td><td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .002 10 .004 15 .005 20 .001 14 .002 15 .005 20 .001 19 .000 19 .001 19 .002 20 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .001 27 .002 27 .003 29 .004 27 .007 32 .007 32 .007 32</td><td>DS Out</td><td>flow V (s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 1.4 0.7 1.5 0.7 1.5</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.845 1.220 0.415 1.220 0.492 1.067 0.505 1.073 0.483</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.009 0.028 0.056 0.018 0.040 0.420 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 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15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .003 24 .004 27 .005 20 .001 27 .002 27 .003 24 .004 27 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td><td>flow V (s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 1.5 0.7 1.4 1.4 1.4 1.5 0.7 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.039 0.035 0.765 0.039 0.034 0.039 0.040 0.040</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 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43 .008 43 .008 34</td><td>DS Out</td><td>flow V 0.7 1.4 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.2 0.0 2.4 9.7 0.7 1.4</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.450 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.027</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0256 0.0246 0.0244 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0.0255 0.0246 0.0244 0.0123 0.0057 0.0072 0.0123 0.1721 0.0124 0.0251 0.0241 0.0257 0.0241 0.0257</td><td>Discharge</td></td></tr> <tr><td>(Upstream Depth)15 minute summer15 minute summer<td>Node111212132415363738493101115125136145151167177188191101101101111121131131131131131131131131141151161</td><td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 12 .001 12 .001 14 .002 10 .004 15 .000 12 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 27 .005 20 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td><td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 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summer<td>Node111212132415363738493101125136145151167178191101101111129129131141151161171181191191101101111121131141151161171181191191101101111121131141151161171181191191191191191191101101111121131141151161<</td><td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 14 .002 10 .004 15 .000 12 .001 14 .002 10 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .003 24 .004 27 .005 20 .001 27 .002 27 .003 24 .004 27 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td><td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 2.7 1.2</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 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0.084 0.0256 0.0084 0.0256 0.0246 0.0244 0.0193 0.0255 0.0246 0.0244 0.0193 0.0255 0.0246 0.0271 0.0124 0.0127 0.0271 0.0274 0.0274 0.0274 0.0274</td><td>Discharge</td></td></td></tr> | DS Out ode (I | flow V (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.5 2.0 7.4 0.0 1.2 0.7 1.4 0.7 1.4 0.7 1.4 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.7 1.4 0.0 1.2 0.7 1.4 1.5 0.7 1.4 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.450 0.844 0.815 0.000 0.629 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.040 0.059 0.547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 0.0547 0.040 0.059 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12 9 12 9 12 9 12 9 12 9 12 1 12 1 12 1 13 1 | Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .002 10 .004 15 .005 20 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .003 24 .004 27 .005 20 .001 27 .002 27 .003 24 .004 27 .007 32 .007 32 .007 32 .007 32 | DS Out | flow V (s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 1.4 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.058 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.040 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0255 0.0246 0.0244 0.0193 0.0057 0.0245 0.0072 0.0123 0.1721 0.0124 | Discharge | (Upstream Depth)15 minute summer15 minute summer | Node 1 1 1 2 1 3 2 4 1 5 1 5 1 5 3 4 3 5 3 4 5 5 1 5 1 10 1 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 24 9 25 1 26 1 29 1 30 1 31 1 32 1 | Nc .000 2 .001 4 .002 5 .003 10 .002 5 .003 10 .000 7 .001 9 .002 10 .004 15 .000 12 .001 14 .002 10 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .003 24 .004 27 .005 20 .001 27 .002 27 .003 24 .004 27 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td> <td>flow V (s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 1.5 0.7 1.4 1.4 1.4 1.5 0.7 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4</td> <td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 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.001 24 .002 27 .003 24 .004 27 .005 20 .007 32 .007 32 .007 32 .001 32 .002 31 <td>DS Out</td><td>flow V (s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.7</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.450 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.000 0.28 0.056 0.018 0.040 0.420 0.000 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.035 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1 5 3 7 3 3 4 6 1 1 5 <t< td=""><td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .001 9 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .003 22 .004 22 .005 20 .006 27 .007 32 .007 32 .007 32 .007 32 .007 32 .008 43 .008 43 .008 43 .008 34</td><td>DS Out</td><td>flow V 0.7 1.4 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.2 0.0 2.4 9.7 0.7 1.4</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.450 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 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1.073 0.483 0.964 0.926 0.000 0.447 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.027 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0123 0.0057 0.0072 0.0123 0.1721 0.0124 0.0251 0.0127 0.0241 0.2507 0.0104 0.2507 | Discharge | (Upstream Depth)15 minute summer15 minute summer <td>Node 1 1 1 2 1 3 2 4 1 5 3 7 3 8 4 9 3 10 1 12 5 13 6 14 5 15 1 16 7 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 24 9 25 1 26 1 27 1 28 1 33 1 33 1 34 1</td> <td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .002 10 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 24 .002 27 .000 24 .002 27 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 29 .007 32 .007 32 .007 32</td> <td>DS Out</td> <td>flow V 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 1.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 1.4 1.4</td> <td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538</td> <td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.040 0.040 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.040 0.057 0.039 0.035 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.035 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.034 0.000 0.039 0.040 0.000 0.077 0.051</td> <td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0841 0.0096 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0123 0.0057 0.0072 0.0123 0.1721 0.0124 0.0251 0.0241 0.0257 0.0241 0.0257</td> <td>Discharge</td> | Node 1 1 1 2 1 3 2 4 1 5 3 7 3 8 4 9 3 10 1 12 5 13 6 14 5 15 1 16 7 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 24 9 25 1 26 1 27 1 28 1 33 1 33 1 34 1 | Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .002 10 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 24 .002 27 .000 24 .002 27 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 29 .007 32 .007 32 .007 32 | DS Out | flow V 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 1.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 1.4 1.4 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.040 0.040 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.040 0.057 0.039 0.035 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 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32 .007 32 <td>DS Out</td><td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 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0.0246 0.0244 0.0193 0.0255 0.0246 0.0271 0.0124 0.0127 0.0271 0.0274 0.0274 0.0274 0.0274 | Discharge | (Upstream Depth)15 minute summer15 minute summer <td>Node111212132415363738493101125136145151167178191101101111129129131141151161171181191191101101111121131141151161171181191191101101111121131141151161171181191191191191191191101101111121131141151161<</td> <td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 14 .002 10 .004 15 .000 12 .001 14 .002 10 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .003 24 .004 27 .005 20 .001 27 .002 27 .003 24 .004 27 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td><td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 2.7 1.2</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 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.007 32 .007 32 <td>DS Out</td> <td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 2.7 1.2</td> <td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767 0.538 0.767 0.704</td> <td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.000 0.058 0.000 0.058 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153 0.068</td> <td>Link Vol (m³) 0.0124 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12 9 12 1 13 1 14 1 15 1 16 1 17 1 18 1 19 1 10 1</td> <td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 12 .001 12 .001 14 .002 10 .004 15 .000 12 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 27 .005 20 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out ode (I</td><td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 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.007 32 .007 32 .007 32 <td>DS Out ode (I</td> <td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7</td> <td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767</td> <td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153</td> <td>Link Vol (m³) 0.0124 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| (Upstream Depth)15 minute summer15 minute summer <td>Node 1 1 1 2 1 3 2 4 1 5 1 5 3 4 3 5 3 4 3 5 3 6 3 10 1 5 1 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 24 9 25 1 26 1 27 1 28 1 29 1 31 1 32 1 33 1</td> <td>Nc .000 2 .001 4 .002 5 .003 10 .002 5 .003 10 .000 7 .001 9 .002 10 .004 15 .000 12 .001 14 .002 10 .001 14 .002 15 .005 20 .001 19 .002 20 .003 19 .004 12 .005 20 .006 27 .007 22 .001 24 .002 27 .003 24 .004 27 .005 20 .007 32 .007 32 .007 32 .001 32 .002 31 <td>DS Out</td><td>flow V (s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.0 0.7 1.4 0.7</td><td>elocity (m/s) 0.378 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| (Upstream Depth)15 minute summer15 minute summer <td>Node 1 1 1 2 1 3 2 4 1 5 3 7 3 3 4 6 1 1 5 <t< td=""><td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .001 9 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .003 22 .004 22 .005 20 .006 27 .007 32 .007 32 .007 32 .007 32 .007 32 .008 43 .008 43 .008 43 .008 34</td><td>DS Out</td><td>flow V 0.7 1.4 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.2 0.0 2.4 9.7 0.7 1.4</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.450 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.027</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0123 0.0057 0.0072 0.0123 0.1721 0.0124 0.0251 0.0127 0.0241 0.2507 0.0104 0.2507</td><td>Discharge</td></t<></td> | Node 1 1 1 2 1 3 2 4 1 5 3 7 3 3 4 6 1 1 5 <t< td=""><td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .001 9 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .003 22 .004 22 .005 20 .006 27 .007 32 .007 32 .007 32 .007 32 .007 32 .008 43 .008 43 .008 43 .008 34</td><td>DS Out</td><td>flow V 0.7 1.4 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.2 0.0 2.4 9.7 0.7 1.4</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.450 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.027</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0123 0.0057 0.0072 0.0123 0.1721 0.0124 0.0251 0.0127 0.0241 0.2507 0.0104 0.2507</td><td>Discharge</td></t<> | Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .001 9 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .003 22 .004 22 .005 20 .006 27 .007 32 .007 32 .007 32 .007 32 .007 32 .008 43 .008 43 .008 43 .008 34 | DS Out | flow V 0.7 1.4 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.2 0.0 2.4 9.7 0.7 1.4 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.565 0.750 0.330 0.590 0.450 0.450 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.402 0.000 0.027 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0123 0.0057 0.0072 0.0123 0.1721 0.0124 0.0251 0.0127 0.0241 0.2507 0.0104 0.2507 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer <td>Node 1 1 1 2 1 3 2 4 1 5 3 7 3 8 4 9 3 10 1 12 5 13 6 14 5 15 1 16 7 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 24 9 25 1 26 1 27 1 28 1 33 1 33 1 34 1</td> <td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .002 10 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 24 .002 27 .000 24 .002 27 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 29 .007 32 .007 32 .007 32</td> <td>DS Out</td> <td>flow V 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 1.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 1.4 1.4</td> <td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538</td> <td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.040 0.040 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.040 0.057 0.039 0.035 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.035 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.034 0.000 0.039 0.040 0.000 0.077 0.051</td> <td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0841 0.0096 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0123 0.0057 0.0072 0.0123 0.1721 0.0124 0.0251 0.0241 0.0257 0.0241 0.0257</td> <td>Discharge</td> | Node 1 1 1 2 1 3 2 4 1 5 3 7 3 8 4 9 3 10 1 12 5 13 6 14 5 15 1 16 7 12 5 13 6 14 5 15 1 16 7 17 7 18 8 19 7 20 1 21 9 22 9 23 1 24 9 25 1 26 1 27 1 28 1 33 1 33 1 34 1 | Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 9 .001 9 .002 10 .001 12 .001 14 .002 15 .003 17 .001 14 .002 15 .005 20 .001 19 .002 20 .001 24 .002 27 .000 24 .002 27 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 29 .007 32 .007 32 .007 32 | DS Out | flow V 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 1.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 1.4 1.4 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.040 0.040 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.040 0.040 0.057 0.039 0.035 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.035 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.037 0.039 0.034 0.000 0.039 0.040 0.000 0.077 0.051 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0841 0.0096 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0123 0.0057 0.0072 0.0123 0.1721 0.0124 0.0251 0.0241 0.0257 0.0241 0.0257 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer <td>Node111212132415363738493101115125136145151167177188191101101101111121131131131131131131131131141151161</td> <td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 12 .001 12 .001 14 .002 10 .004 15 .000 12 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 27 .005 20 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td><td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.084 0.0256 0.0084 0.0256 0.0246 0.0244 0.0193 0.0255 0.0246 0.0244 0.0193 0.0255 0.0246 0.0271 0.0124 0.0127 0.0271 0.0274 0.0274 0.0274 0.0274</td><td>Discharge</td></td> | Node111212132415363738493101115125136145151167177188191101101101111121131131131131131131131131141151161 | Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 12 .001 12 .001 14 .002 10 .004 15 .000 12 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 27 .005 20 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td> <td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7</td> <td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767</td> <td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153</td> <td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.084 0.0256 0.0084 0.0256 0.0246 0.0244 0.0193 0.0255 0.0246 0.0244 0.0193 0.0255 0.0246 0.0271 0.0124 0.0127 0.0271 0.0274 0.0274 0.0274 0.0274</td> <td>Discharge</td> | DS Out | flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.084 0.0256 0.0084 0.0256 0.0246 0.0244 0.0193 0.0255 0.0246 0.0244 0.0193 0.0255 0.0246 0.0271 0.0124 0.0127 0.0271 0.0274 0.0274 0.0274 0.0274 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer <td>Node111212132415363738493101125136145151167178191101101111129129131141151161171181191191101101111121131141151161171181191191101101111121131141151161171181191191191191191191101101111121131141151161<</td> <td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 14 .002 10 .004 15 .000 12 .001 14 .002 10 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .003 24 .004 27 .005 20 .001 27 .002 27 .003 24 .004 27 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td><td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 2.7 1.2</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767 0.538 0.767 0.704</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.000 0.058 0.000 0.058 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153 0.068</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0193 0.0057 0.0072 0.0123 0.1721 0.0124 0.0124 0.0251 0.0127 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0251 0.0251 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0275 0.0272 0.0272 0.0272 0.0275 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0251</td><td>Discharge</td></td> | Node111212132415363738493101125136145151167178191101101111129129131141151161171181191191101101111121131141151161171181191191101101111121131141151161171181191191191191191191101101111121131141151161< | Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 14 .002 10 .004 15 .000 12 .001 14 .002 10 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .003 24 .004 27 .005 20 .001 27 .002 27 .003 24 .004 27 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out</td> <td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 2.7 1.2</td> <td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767 0.538 0.767 0.704</td> <td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.000 0.058 0.000 0.058 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153 0.068</td> <td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0193 0.0057 0.0072 0.0123 0.1721 0.0124 0.0124 0.0251 0.0127 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0251 0.0251 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0275 0.0272 0.0272 0.0272 0.0275 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0251</td> <td>Discharge</td> | DS Out | flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 1.4 0.7 1.4 1.4 1.4 2.7 1.2 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767 0.538 0.767 0.704 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.000 0.058 0.000 0.058 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153 0.068 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.0084 0.0256 0.0246 0.0244 0.0255 0.0246 0.0244 0.0193 0.0057 0.0072 0.0123 0.1721 0.0124 0.0124 0.0251 0.0127 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0241 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0241 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0251 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0255 0.0246 0.0251 0.0251 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0275 0.0272 0.0272 0.0272 0.0275 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0272 0.0251 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth)15 minute summer15 minute summer <td>Node 1 1 1 2 1 3 2 4 1 5 3 4 3 5 3 4 3 5 3 4 3 5 3 4 3 5 3 6 3 10 1 12 5 12 5 12 5 12 6 12 7 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 1 13 1 14 1 15 1 16 1 17 1 18 1 19 1 10 1</td> <td>Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 12 .001 12 .001 14 .002 10 .004 15 .000 12 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 27 .005 20 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out ode (I</td><td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7</td><td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767</td><td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153</td><td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.084 0.0256 0.0084 0.0256 0.0246 0.0244 0.0193 0.0255 0.0246 0.0244 0.0193 0.0255 0.0246 0.0271 0.0124 0.0127 0.0271 0.0274 0.0274 0.0274 0.0274</td><td>Discharge</td></td> | Node 1 1 1 2 1 3 2 4 1 5 3 4 3 5 3 4 3 5 3 4 3 5 3 4 3 5 3 6 3 10 1 12 5 12 5 12 5 12 6 12 7 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 1 13 1 14 1 15 1 16 1 17 1 18 1 19 1 10 1 | Nc .000 2 .001 4 .002 5 .003 10 .001 9 .001 9 .001 12 .001 12 .001 14 .002 10 .004 15 .000 12 .001 14 .002 15 .005 20 .001 19 .002 20 .001 19 .002 20 .001 24 .002 27 .001 24 .002 27 .001 24 .002 27 .003 24 .004 27 .005 20 .007 32 .007 32 .007 32 .007 32 .007 32 <td>DS Out ode (I</td> <td>flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7</td> <td>elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767</td> <td>Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153</td> <td>Link Vol (m³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.084 0.0256 0.0084 0.0256 0.0246 0.0244 0.0193 0.0255 0.0246 0.0244 0.0193 0.0255 0.0246 0.0271 0.0124 0.0127 0.0271 0.0274 0.0274 0.0274 0.0274</td> <td>Discharge</td> | DS Out ode (I | flow (/s) 0.7 1.4 0.7 2.8 2.7 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.0 1.2 0.0 2.4 9.7 0.7 1.4 0.7 2.8 0.7 1.4 0.7 2.8 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 1.4 0.7 2.8 5.5 0.5 1.0 0.5 2.0 7.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 1.4 0.7 0.7 1.4 0.7 | elocity (m/s) 0.378 0.445 0.312 0.761 0.808 0.378 0.455 0.300 0.565 0.750 0.330 0.590 0.450 0.844 0.815 0.000 0.629 0.000 0.729 0.845 0.371 0.579 0.415 1.220 0.492 1.049 1.067 0.505 1.073 0.483 0.964 0.926 0.000 0.447 0.538 0.767 | Flow/Cap 0.039 0.079 0.023 0.158 0.132 0.039 0.079 0.030 0.158 0.309 0.028 0.056 0.018 0.040 0.420 0.000 0.058 0.000 0.059 0.547 0.040 0.059 0.547 0.040 0.079 0.027 0.070 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.034 0.039 0.035 0.765 0.039 0.034 0.039 0.035 0.765 0.039 0.035 0.765 0.039 0.034 0.039 0.034 0.039 0.0402 0.000 0.077 0.051 0.153 | Link Vol (m ³) 0.0124 0.0449 0.0186 0.0389 0.0720 0.0261 0.0300 0.0341 0.0409 0.1388 0.0135 0.0220 0.0103 0.0626 0.0817 0.0096 0.0256 0.084 0.0256 0.0084 0.0256 0.0246 0.0244 0.0193 0.0255 0.0246 0.0244 0.0193 0.0255 0.0246 0.0271 0.0124 0.0127 0.0271 0.0274 0.0274 0.0274 0.0274 | Discharge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.90%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (I/s) | Node Vol (m³) | Flood (m³) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute summer | 40 | 10 | 72.978 | 0.028 | 1.2 | 0.0080 | 0.0000 | ОК |
| 15 minute summer | 41 | 11 | 72.883 | 0.019 | 1.2 | 0.0054 | 0.0000 | ОК |
| 120 minute summer | 42 | 80 | 73.516 | 0.641 | 13.3 | 9.0244 | 0.0000 | SURCHARGED |
| 15 minute summer | 43 | 12 | 72.391 | 0.126 | 25.9 | 0.0356 | 0.0000 | ОК |
| 15 minute summer | 44 | 11 | 73.121 | 0.021 | 0.7 | 0.0059 | 0.0000 | ОК |
| 15 minute summer | 45 | 11 | 73.037 | 0.020 | 1.4 | 0.0057 | 0.0000 | ОК |
| 15 minute summer | 46 | 12 | 72.293 | 0.085 | 28.2 | 0.0242 | 0.0000 | ОК |
| | | | | | | | | |
| 15 minute summer | 48 | 10 | 71.849 | 0.029 | 1.4 | 0.0083 | 0.0000 | ОК |
| 15 minute summer | 49 | 10 | 71.780 | 0.039 | 2.8 | 0.0111 | 0.0000 | ОК |
| 15 minute summer | 50 | 10 | 71.581 | 0.028 | 1.4 | 0.0080 | 0.0000 | ОК |
| 15 minute summer | 51 | 11 | 71.524 | 0.063 | 5.5 | 0.0180 | 0.0000 | ОК |
| 15 minute summer | 52 | 13 | 71.424 | 0.143 | 32.9 | 0.0405 | 0.0000 | ОК |
| 480 minute winter | 53 | 384 | 71.145 | 0.145 | 8.4 | 69.5077 | 0.0000 | ОК |
| 15 minute summer | 53_OUT | 1 | 70.855 | 0.150 | 0.5 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 47 | 12 | 71.554 | 0.135 | 28.3 | 0.1527 | 0.0000 | ОК |
| | | | | | | | | |

| Link Event | US | Link | DS | Outflow | Velocity | Flow/Cap | Link | Discharge |
|-------------------|------|--------------|--------|---------|----------|----------|----------|-----------|
| (Upstream Depth) | Node | | Node | (I/s) | (m/s) | | Vol (m³) | Vol (m³) |
| 15 minute summer | 40 | 17.000 | 41 | 1.2 | 0.677 | 0.068 | 0.0155 | |
| 15 minute summer | 41 | 17.001 | 43 | 1.2 | 0.923 | 0.034 | 0.0148 | |
| 120 minute summer | 42 | Orifice | 43 | 4.1 | | | | |
| 15 minute summer | 43 | 1.009 | 46 | 26.0 | 1.177 | 0.365 | 0.3054 | |
| 15 minute summer | 44 | 19.000 | 45 | 0.7 | 0.486 | 0.039 | 0.0120 | |
| 15 minute summer | 45 | 19.001 | 46 | 1.4 | 1.027 | 0.035 | 0.0046 | |
| 15 minute summer | 46 | 1.010 | 47 | 28.3 | 1.253 | 0.159 | 0.7181 | |
| | | | | | | | | |
| 15 minute summer | 48 | 20.000 | 49 | 1.4 | 0.584 | 0.077 | 0.0151 | |
| 15 minute summer | 49 | 20.001 | 51 | 2.7 | 0.511 | 0.151 | 0.1507 | |
| 15 minute summer | 50 | 21.000 | 51 | 1.4 | 0.314 | 0.077 | 0.0429 | |
| 15 minute summer | 51 | 20.002 | 52 | 5.4 | 0.819 | 0.303 | 0.0197 | |
| 15 minute summer | 52 | 1.012 | 53 | 32.5 | 1.001 | 0.455 | 0.8801 | |
| 480 minute winter | 53 | Hydro-Brake® | 53_OUT | 0.7 | | | | 78.8 |
| | | | | | | | | |
| 15 minute summer | 47 | 1.011 | 52 | 28.0 | 0.876 | 0.392 | 1.0584 | |

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.90%

| Node Event | US | Peak | Level | Depth | Inflow | Node | Flood | Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|--|---|--|--|---|--|--|---|--|--|--|--|--|--|--|--|---|---|--|---|--|--|---|--|--|---|--|--|---|--|--|--|--|---|---|---|--|--|---|--|---|---|---|---|--|--|--|--|--|--|--|---|---|---|--|--|---|--|---|---|---|--|---|--|---|--|
| | Node | (mins) | (m) | (m) | (I/s) | Vol (m ³) | (m³) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 1 | 10 | 74.333 | 0.033 | 1.9 | 0.0095 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer 15 minute summer | 2 3 | 10 10 | 74.281 74.326 | 0.047 0.026 | 3.8 1.9 | 0.0132 0.0073 | 0.0000 0.0000 | OK OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 4 | 10 | 74.320 | 0.020 | 7.5 | 0.0203 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 5 | 11 | 74.053 | 0.064 | 7.4 | 0.0181 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 6 | 10 | 73.443 | 0.033 | 1.9 | 0.0093 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 7 | 13 | 73.414 | 0.143 | 3.8 | 0.0405 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 8 | 10 | 73.439 | 0.029 | 1.9 | 0.0081 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 9 10 | 13 13 | 73.414 73.408 | 0.240 | 7.5 | 0.0678 | 0.0000 | SURCHARGED SURCHARGED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer 15 minute summer | 10 | 15 | 74.118 | 0.315 0.028 | 14.8 1.4 | 0.0892 0.0081 | 0.0000 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 12 | 11 | 74.044 | 0.020 | 2.8 | 0.0120 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 13 | 11 | 74.113 | 0.023 | 1.4 | 0.0065 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 14 | 11 | 73.907 | 0.034 | 5.6 | 0.0097 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 15 | 13 | 73.332 | 0.428 | 16.2 | 0.1211 | 0.0000 | SURCHARGED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer 15 minute summer | 16 17 | 1 10 | 73.850 73.772 | 0.000 0.042 | 0.0 3.4 | 0.0000 0.0119 | 0.0000 0.0000 | OK OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 18 | 10 | 74.050 | 0.042 | 0.0 | 0.0000 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 19 | 10 | 73.591 | 0.041 | 6.7 | 0.0116 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 20 | 12 | 73.260 | 0.445 | 19.8 | 0.1259 | 0.0000 | SURCHARGED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 21 | 10 | 73.573 | 0.033 | 1.9 | 0.0093 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 22 | 10 | 73.460 | 0.048 | 3.8 | 0.0137 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 23 | 10 | 73.567 | 0.027 | 1.9 | 0.0078 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer 15 minute summer | 24 25 | 10 10 | 73.362 73.375 | 0.051 0.035 | 7.5 1.9 | 0.0145 0.0098 | 0.0000 0.0000 | OK OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 26 | 10 | 73.320 | 0.035 | 3.8 | 0.0058 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 27 | 12 | 73.040 | 0.404 | 27.6 | 0.1143 | 0.0000 | SURCHARGED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 28 | 10 | 73.374 | 0.034 | 1.9 | 0.0097 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 29 | 10 | 73.282 | 0.031 | 3.8 | 0.0087 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 30 | 10 | 73.134 | 0.034 | 1.9 | 0.0096 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer 15 minute summer | 31 32 | 10 12 | 73.046 72.600 | 0.033 0.174 | 3.8 34.1 | 0.0093 0.0493 | 0.0000 0.0000 | OK OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 33 | 12 | 73.200 | 0.000 | 0.0 | 0.0000 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 34 | 10 | 73.156 | 0.047 | 3.8 | 0.0133 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 35 | 10 | 73.238 | 0.038 | 3.8 | 0.0107 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 36 | 11 | 73.043 | 0.072 | 7.6 | 0.0203 | 0.0000 | ОК | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 37 | 10 | 73.248 | 0.048 | 3.4 | 0.0136 | 0.0000 | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer 15 minute summer | 38 39 | 10 11 | 73.143 72.889 | 0.029 0.061 | 3.4 10.8 | 0.0082 0.0173 | 0.0000 0.0000 | OK OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 minute summer | 39 | 11 | 12.009 | 0.001 | 10.8 | 0.01/5 | 0.0000 | UK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Link Event | US | Link | | Outflow | Velocity | Flow/Ca | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) | Node | | Node | (I/s) | (m/s) | | Vol (| m³) Vol (m³) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer | Node 1 | 1.000 | Node 2 | (I/s) 1.9 | (m/s) 0.500 | 0.10 | Vol (| m³) Vol (m³) 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) | Node | | Node | (I/s) | (m/s) | 0.10 0.22 | Vol (06 0.0 10 0.0 | m³) Vol (m³) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 | 1.000 1.001 2.000 1.002 | Node 2 4 4 5 | (I/s) 1.9 3.7 | (m/s) 0.500 0.577 0.384 0.966 | 0.10 0.22 0.06 0.42 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 | m³) Vol (m³) 250 916 382 805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 | 1.000 1.001 2.000 1.002 1.003 | Node 2 4 5 10 | (I/s) 1.9 3.7 1.9 7.4 7.4 | (m/s) 0.500 0.577 0.384 0.966 1.061 | 0.10 0.22 0.06 0.42 0.35 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 | m³) Vol (m³) 250 916 382 805 490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 | 1.000 1.001 2.000 1.002 1.003 3.000 | Node 2 4 5 10 7 | (I/s) 1.9 3.7 1.9 7.4 7.4 1.9 | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 | 0.10 0.22 0.06 0.42 0.35 0.10 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 06 0.1 | m³) Vol (m³) 250 916 382 805 490 344 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 | Node 2 4 4 5 10 7 9 | (I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 | 0.10 0.22 0.06 0.42 0.35 0.10 0.22 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 06 0.1 21 0.1 | m³) Vol (m³) 250 916 382 805 490 344 694 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 | Node 2 4 5 10 7 9 9 | (I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 | 0.10 0.22 0.06 0.42 0.35 0.10 0.22 0.08 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 06 0.1 21 0.1 30 0.1 | m³) Vol (m³) 250 916 382 805 490 344 694 340 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 | Node 2 4 4 5 10 7 9 | (I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 | 0.10 0.22 0.06 0.42 0.35 0.10 0.22 0.08 0.43 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 06 0.1 21 0.1 30 0.1 36 0.1 | m³) Vol (m³) 250 916 382 805 490 344 694 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 | Node 2 4 5 10 7 9 9 9 10 15 12 | (I/s) 1.9 3.7 1.9 7.4 1.9 3.9 1.9 7.7 11.5 1.4 | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.866 0.443 | 0.10 0.22 0.06 0.42 0.35 0.10 0.22 0.08 0.43 0.65 0.07 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 26 0.1 21 0.1 30 0.1 36 0.1 36 0.3 79 0.0 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 | Node 2 4 5 10 7 9 9 9 10 15 12 14 | (I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.866 0.866 0.443 0.794 | 0.10 0.22 0.06 0.42 0.35 0.10 0.22 0.08 0.43 0.65 0.07 0.15 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 36 0.1 36 0.3 79 0.0 58 0.0 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 | $\begin{array}{c} 1.000\\ 1.001\\ 2.000\\ 1.002\\ 1.003\\ 3.000\\ 3.001\\ 4.000\\ 3.002\\ 1.004\\ 5.000\\ 5.001\\ 6.000 \end{array}$ | Node 2 4 5 10 7 9 9 10 15 12 14 14 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.866 0.443 0.794 0.608 | 0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.65 0.07 0.15 0.05 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 06 0.1 21 0.1 36 0.1 36 0.1 36 0.3 79 0.0 58 0.0 51 0.0 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 | Node 2 4 5 10 7 9 9 10 15 12 14 14 15 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.866 0.866 0.443 0.794 0.608 0.977 | 0.10 0.2 0.0 0.4 0.3 0.10 0.2 0.0 0.2 0.0 0.4 0.0 0.1 0.1 0.1 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 06 0.1 21 0.1 36 0.1 50 0.3 79 0.0 58 0.0 51 0.0 13 0.1 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 | Node 2 4 5 10 7 9 9 10 15 12 14 14 14 15 20 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.866 0.443 0.794 0.608 0.977 0.853 | 0.10 0.2 0.06 0.4 0.3 0.10 0.2 0.08 0.4 0.6 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 06 0.1 21 0.1 30 0.1 36 0.1 50 0.3 79 0.0 53 0.0 54 0.0 55 0.1 27 0.1 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 | Node 2 4 5 10 7 9 9 10 15 12 14 14 15 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.866 0.866 0.443 0.794 0.608 0.977 | 0.10 0.2 0.0 0.4 0.3 0.10 0.2 0.0 0.2 0.0 0.4 0.0 0.1 0.1 0.1 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 30 0.1 36 0.1 36 0.1 36 0.1 36 0.1 36 0.1 36 0.1 36 0.1 379 0.0 51 0.0 13 0.1 27 0.1 00 0.0 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.866 0.866 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 | 0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.65 0.07 0.15 0.05 0.11 0.82 0.00 0.16 0.00 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 36 0.1 36 0.1 36 0.3 79 0.0 53 0.0 54 0.0 55 0.0 56 0.3 57 0.1 50 0.3 51 0.0 52 0.0 52 0.0 50 0.0 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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0.0 33 0.0 34 0.0 35 0.0 36 0.2 37 0.2 <tr td=""> <t< td=""><td>m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 514 408 119 145 932 363 249</td></t<></tr> <tr><td>(Upstream Depth) 15 minute summer 15 minute summer</td><td>Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32</td><td>1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.002 11.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 13.001 1.008</td><td>Node 2 4 4 5 10 7 9 10 15 12 14 14 15 20 17 19 19 20 27 20 27 22 24 24 24 27 26 27 32 29 32 31</td><td><pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 1.9 7.4 1.9 3.8 27.5 1.9 3.7 3.7 1.9 3.7 3.7 3.1 </pre></td><td>(m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.841 0.000 0.927 1.068 0.487 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14.000</td><td>Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34</td><td><pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 3.1 0.0</pre></td><td>(m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000</td><td>0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.69 0.12 0.09 0.12 0.00 0.16 0.00 0.16 0.00 0.16 0.10</td><td>Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 26 0.1 27 0.1 30 0.1 36 0.1 379 0.0 53 0.0 54 0.0 55 0.0 56 0.2 57 0.0 53 0.1 54 0.0 55 0.0 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 57 0.0 54 0.4</td><td>m³) Vol (m³) 250 916 382 805 490 344 694 344 694 345 282 459 213 309 581 203 534 174 514 162 500 514 408 119 145 932 363 249 029 255 969 489 216 216</td></tr> <tr><td>(Upstream Depth) 15 minute summer 15 minute summer</td><td>Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34</td><td>1.000 1.001 2.000 1.002 1.003 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.001 8.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.002 11.000 11.000 11.001 1.007 12.000 13.001 1.008 14.000 14.000</td><td>Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 20 27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36</td><td><pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 1.9 3.8 27.5 1.9 3.7 1.9 3.7 3.7 3.7 3.7 3.7 3.7 </pre></td><td>(m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582</td><td>0.10 0.22 0.06 0.42 0.35 0.10 0.22 0.08 0.43 0.65 0.07 0.15 0.09 0.12 0.00 0.16 0.00 0.16 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13.001 1.008 14.000</td><td>Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36 36 36</td><td><pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 3.1 0.0 3.8 3.8</pre></td><td>(m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 0.000</td><td>0.10 0.22 0.06 0.42 0.32 0.02 0.03 0.12 0.03 0.12 0.05 0.012 0.02 0.012 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.000 0.16 0.000 0.16 0.000 0.16 0.000 0.16 0.000 0.000 0.16 0.000 0.000 0.16 0.000 0.000 0.16 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.000 0.100 0.000 0.100 0.000 0.000 0.100 0.0000 0.0000 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39</td><td><pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 3.7 3.1 0.0 3.8 3.8 7.5</pre></td><td>(m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 0.664 0.997</td><td>0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.65 0.07 0.12 0.09 0.12 0.09 0.12 0.00 0.16 0.10 0.00 0.10 0.10 0.00 0.10 0.00 0.10 0.00 0.10 0.00</td><td>Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 23 0.1 36 0.1 37 0.0 58 0.0 51 0.0 52 0.0 53 0.1 50 0.3 79 0.0 53 0.1 50 0.3 61 0.3 62 0.0 53 0.1 54 0.0 55 0.0 56 0.2 57 0.0 58 0.0 59 0.0 50 0.0 51 0.3 52 0.0 53 0.1 54 0.4 55 0.0 5</td><td>m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 514 162 500 514 408 119 145 932 363 249 029 255 969 489 216 901 578 085</td></tr> <tr><td>(Upstream Depth) 15 minute summer 15 minute 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26 27 32 29 32 31 32 43 36 36 39 38</td><td><pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 3.1 0.0 3.8 3.8 7.5 3.4 </pre></td><td>(m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 0.664 0.997 0.947</td><td>0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.65 0.07 0.12 0.09 0.12 0.09 0.12 0.00 0.12 0.10</td><td>Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 23 0.0 130 0.1 26 0.1 27 0.1 26 0.0 53 0.0 54 0.0 55 0.0 56 0.2 57 0.0 53 0.1 54 0.4 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 57 0.0 54 0.4 50 0.0 54 0.4 50 0.0 50 0.0 53 0.0 54 0.4</td><td>m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 514 408 119 145 932 363 249 029 255 969 489 216 901 578 085 311</td></tr> | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 514 408 119 145 932 363 249 | (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.002 11.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 13.001 1.008 | Node 2 4 4 5 10 7 9 10 15 12 14 14 15 20 17 19 19 20 27 20 27 22 24 24 24 27 26 27 32 29 32 31 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 1.9 7.4 1.9 3.8 27.5 1.9 3.7 3.7 1.9 3.7 3.7 3.1 </pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 | 0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 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27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36 36 36 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 3.1 0.0 3.8 3.8</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 0.000 | 0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.65 0.07 0.12 0.09 0.12 0.09 0.12 0.00 0.16 0.10 0.00 0.10 0.10 0.00 0.10 0.00 0.10 0.00 0.10 0.00 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 23 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.0 31 0.0 32 0.0 33 0.0 34 0.0 35 0.0 36 0.0 37 0.0 38 0.0 39 0.0 3 | m³) Vol (m³) 250 916 382 805 490 344 694 340 3426 345 282 459 213 309 581 203 534 174 514 162 408 119 145 932 363 249 029 255 969 489 216 901 578 578 | (Upstream Depth) 15 minute summer 15 minute 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| m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 514 408 119 145 932 363 249 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 | 1.000 1.001 2.000 1.002 1.003 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.001 8.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.002 11.000 11.000 11.001 1.007 12.000 13.001 1.008 14.000 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 20 27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 1.9 3.8 27.5 1.9 3.7 1.9 3.7 3.7 3.7 3.7 3.7 3.7 </pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 | 0.10 0.22 0.06 0.42 0.35 0.10 0.22 0.08 0.43 0.65 0.07 0.15 0.09 0.12 0.00 0.16 0.00 0.16 0.00 0.16 0.10 0.10 0.12 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.00 0.16 0.10 0.16 0.10 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 26 0.1 27 0.1 30 0.1 36 0.1 379 0.0 52 0.0 53 0.0 54 0.0 55 0.0 56 0.2 57 0.0 53 0.1 54 0.0 55 0.0 56 0.2 56 0.2 56 0.2 56 0.2 56 0.0 57 0.0 56 0.2 56 0.2 56 0.0 57 0.0 50 0.0 51 0.3 52 0.0 54 0.4 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 514 408 119 145 932 363 249 029 255 969 489 216 901 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 9.001 10.000 9.001 10.000 9.002 11.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 13.001 1.008 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36 36 36 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 3.1 0.0 3.8 3.8</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 0.000 | 0.10 0.22 0.06 0.42 0.32 0.02 0.03 0.12 0.03 0.12 0.05 0.012 0.02 0.012 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.100 0.000 0.16 0.000 0.16 0.000 0.16 0.000 0.16 0.000 0.16 0.000 0.000 0.16 0.000 0.000 0.16 0.000 0.000 0.16 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.000 0.100 0.000 0.100 0.000 0.000 0.100 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000000000 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 36 0.1 36 0.1 37 0.0 58 0.0 51 0.0 52 0.0 53 0.1 50 0.3 79 0.0 52 0.0 53 0.1 54 0.0 55 0.0 56 0.2 56 0.2 56 0.2 56 0.2 57 0.0 56 0.2 57 0.0 58 0.0 59 0.0 50 0.0 51 0.3 52 0.0 54 0.4 5 | m³) Vol (m³) 250 916 382 805 490 344 694 340 3426 345 282 459 213 309 581 203 534 174 514 162 408 119 145 932 363 249 029 255 969 489 216 901 578 578 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.001 1.000 1.000 1.000 1.001 1.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 27 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 36 36 39 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 3.7 3.1 0.0 3.8 3.8 7.5</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 0.664 0.997 | 0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.65 0.07 0.12 0.09 0.12 0.09 0.12 0.00 0.16 0.10 0.00 0.10 0.10 0.00 0.10 0.00 0.10 0.00 0.10 0.00 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 23 0.1 36 0.1 37 0.0 58 0.0 51 0.0 52 0.0 53 0.1 50 0.3 79 0.0 53 0.1 50 0.3 61 0.3 62 0.0 53 0.1 54 0.0 55 0.0 56 0.2 57 0.0 58 0.0 59 0.0 50 0.0 51 0.3 52 0.0 53 0.1 54 0.4 55 0.0 5 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 514 162 500 514 408 119 145 932 363 249 029 255 969 489 216 901 578 085 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 9.001 10.000 9.001 10.000 9.002 11.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 13.001 1.008 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36 36 36 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 3.1 0.0 3.8 3.8</pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 0.000 | 0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.65 0.07 0.12 0.09 0.12 0.09 0.12 0.00 0.16 0.10 0.00 0.10 0.10 0.00 0.10 0.00 0.10 0.00 0.10 0.00 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 23 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.1 30 0.0 31 0.0 32 0.0 33 0.0 34 0.0 35 0.0 36 0.0 37 0.0 38 0.0 39 0.0 3 | m³) Vol (m³) 250 916 382 805 490 344 694 340 3426 345 282 459 213 309 581 203 534 174 514 162 408 119 145 932 363 249 029 255 969 489 216 901 578 578 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 34 35 36 37 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 1.006 9.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.002 11.000 11.000 11.001 1.007 12.000 12.001 13.000 13.001 13.000 14.002 14.002 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 24 24 27 26 27 32 29 32 31 32 43 36 36 39 38 | <pre>(I/s) 1.9 3.7 1.9 7.4 7.4 1.9 3.9 1.9 7.7 11.5 1.4 2.8 1.4 5.6 14.6 0.0 3.3 0.0 6.7 18.8 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 1.9 3.7 3.1 0.0 3.8 3.8 7.5 3.4 </pre> | (m/s) 0.500 0.577 0.384 0.966 1.061 0.504 0.583 0.369 0.686 0.443 0.794 0.608 0.977 0.853 0.000 0.841 0.000 0.927 1.068 0.487 0.729 0.513 1.550 0.658 1.248 1.564 0.671 1.098 0.641 0.983 1.097 0.000 0.582 0.664 0.997 0.947 | 0.10 0.22 0.06 0.42 0.32 0.10 0.22 0.08 0.43 0.65 0.07 0.12 0.09 0.12 0.09 0.12 0.00 0.12 0.10 | Vol (06 0.0 10 0.0 53 0.0 17 0.0 59 0.1 20 0.1 21 0.1 23 0.0 130 0.1 26 0.1 27 0.1 26 0.0 53 0.0 54 0.0 55 0.0 56 0.2 57 0.0 53 0.1 54 0.4 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 56 0.2 57 0.0 54 0.4 50 0.0 54 0.4 50 0.0 50 0.0 53 0.0 54 0.4 | m³) Vol (m³) 250 916 382 805 490 344 694 340 426 345 282 459 213 309 581 203 534 174 514 408 119 145 932 363 249 029 255 969 489 216 901 578 085 311 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

File: Calcs (2).pfd Network: SuDS Cecily Austin 02/12/2024

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.90%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (I/s) | Node Vol (m³) | Flood (m³) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute summer | 40 | 10 | 72.997 | 0.047 | 3.4 | 0.0134 | 0.0000 | ОК |
| 15 minute summer | 41 | 10 | 72.896 | 0.032 | 3.4 | 0.0090 | 0.0000 | ОК |
| 60 minute winter | 42 | 59 | 73.663 | 0.788 | 34.8 | 36.0960 | 0.0000 | SURCHARGED |
| 15 minute summer | 43 | 11 | 72.456 | 0.191 | 54.9 | 0.0539 | 0.0000 | ОК |
| 15 minute summer | 44 | 10 | 73.134 | 0.034 | 1.9 | 0.0096 | 0.0000 | ОК |
| 15 minute summer | 45 | 10 | 73.051 | 0.034 | 3.8 | 0.0096 | 0.0000 | ОК |
| 15 minute summer | 46 | 11 | 72.333 | 0.125 | 61.5 | 0.0355 | 0.0000 | ОК |
| | | | | | | | | |
| 15 minute summer | 48 | 10 | 71.870 | 0.050 | 3.8 | 0.0142 | 0.0000 | ОК |
| 15 minute summer | 49 | 10 | 71.809 | 0.068 | 7.6 | 0.0192 | 0.0000 | ОК |
| 15 minute summer | 50 | 10 | 71.600 | 0.047 | 3.8 | 0.0133 | 0.0000 | ОК |
| 15 minute summer | 51 | 11 | 71.585 | 0.124 | 15.1 | 0.0351 | 0.0000 | ОК |
| 15 minute summer | 52 | 12 | 71.533 | 0.252 | 74.2 | 0.0712 | 0.0000 | ОК |
| 600 minute winter | 53 | 585 | 71.327 | 0.327 | 12.1 | 166.9434 | 0.0000 | SURCHARGED |
| 15 minute summer | 53_OUT | 1 | 70.855 | 0.150 | 0.7 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 47 | 12 | 71.652 | 0.233 | 61.2 | 0.2636 | 0.0000 | ОК |
| | | | | | | | | |

| Link Event (Upstream Depth) | US Node | Link | DS Node | Outflow (I/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m³) |
|--------------------------------|------------|--------------|------------|------------------|-------------------|----------|------------------|-----------------------|
| 15 minute summer | 40 | 17.000 | 41 | 3.4 | 0.906 | 0.189 | 0.0322 | , |
| 15 minute summer | 41 | 17.001 | 43 | 3.4 | 1.193 | 0.095 | 0.0367 | |
| 60 minute winter | 42 | Orifice | 43 | 4.6 | | | | |
| 15 minute summer | 43 | 1.009 | 46 | 54.7 | 1.459 | 0.767 | 0.5158 | |
| 15 minute summer | 44 | 19.000 | 45 | 1.9 | 0.630 | 0.106 | 0.0247 | |
| 15 minute summer | 45 | 19.001 | 46 | 3.7 | 1.340 | 0.094 | 0.0094 | |
| 15 minute summer | 46 | 1.010 | 47 | 61.2 | 1.476 | 0.345 | 1.3290 | |
| | | | | | | | | |
| 15 minute summer | 48 | 20.000 | 49 | 3.8 | 0.703 | 0.213 | 0.0350 | |
| 15 minute summer | 49 | 20.001 | 51 | 7.5 | 0.643 | 0.423 | 0.3257 | |
| 15 minute summer | 50 | 21.000 | 51 | 3.8 | 0.389 | 0.213 | 0.0929 | |
| 15 minute summer | 51 | 20.002 | 52 | 15.0 | 1.038 | 0.843 | 0.0431 | |
| 15 minute summer | 52 | 1.012 | 53 | 74.6 | 1.274 | 1.045 | 1.5812 | |
| 600 minute winter | 53 | Hydro-Brake® | 53 OUT | 0.8 | | | | 178.6 |
| | | | - | | | | | |
| 15 minute summer | 47 | 1.011 | 52 | 60.9 | 0.999 | 0.853 | 2.0194 | |

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.90%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (I/s) | Node Vol (m³) | Flood (m³) | Status |
|--|--|---|---|---|---|--|--|--|
| 15 minute summer | 1 | 10 | 74.341 | 0.041 | 2.7 | 0.0115 | 0.0000 | ОК |
| 15 minute summer | 2 | 10 | 74.290 | 0.056 | 5.4 | 0.0159 | 0.0000 | OK |
| 15 minute summer | 3 | 10 | 74.330 | 0.030 | 2.7 | 0.0086 | 0.0000 | ОК |
| 15 minute summer | 4 | 10 | 74.183 | 0.090 | 10.7 | 0.0253 | 0.0000 | ОК |
| 15 minute summer | 5 | 11 | 74.068 | 0.079 | 10.6 | 0.0224 | 0.0000 | ОК |
| 15 minute summer | 6 | 13 | 73.756 | 0.346 | 3.6 | 0.0978 | 0.0000 | SURCHARGED |
| 15 minute summer | 7 | 13 | 73.755 | 0.484 | 10.0 | 0.1369 | 0.0000 | SURCHARGED |
| 15 minute summer 15 minute summer | 8 9 | 13 13 | 73.753 73.752 | 0.343 0.578 | 3.4 9.9 | 0.0970 0.1634 | 0.0000 0.0000 | SURCHARGED SURCHARGED |
| 15 minute summer | 10 | 13 | 73.747 | 0.654 | 17.8 | 0.1851 | 0.0000 | SURCHARGED |
| 15 minute summer | 11 | 10 | 74.124 | 0.034 | 2.0 | 0.0096 | 0.0000 | OK |
| 15 minute summer | 12 | 10 | 74.053 | 0.051 | 4.0 | 0.0143 | 0.0000 | ОК |
| 15 minute summer | 13 | 10 | 74.117 | 0.027 | 2.0 | 0.0077 | 0.0000 | ОК |
| 15 minute summer | 14 | 10 | 73.913 | 0.040 | 7.9 | 0.0114 | 0.0000 | ОК |
| 15 minute summer | 15 16 | 13 | 73.658 | 0.754 | 16.7 | 0.2133 | 0.0000 | SURCHARGED |
| 15 minute summer 15 minute summer | 16 17 | 1 10 | 73.850 73.780 | 0.000 0.050 | 0.0 4.7 | 0.0000 0.0142 | 0.0000 0.0000 | OK OK |
| 15 minute summer | 18 | 10 | 74.050 | 0.000 | 0.0 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 19 | 10 | 73.599 | 0.049 | 9.3 | 0.0138 | 0.0000 | ОК |
| 15 minute summer | 20 | 13 | 73.558 | 0.743 | 21.7 | 0.2103 | 0.0000 | SURCHARGED |
| 15 minute summer | 21 | 10 | 73.579 | 0.039 | 2.7 | 0.0111 | 0.0000 | ОК |
| 15 minute summer | 22 | 10 | 73.471 | 0.059 | 5.4 | 0.0167 | 0.0000 | ОК |
| 15 minute summer | 23 | 10 | 73.573 | 0.033 | 2.7 | 0.0092 | 0.0000 | ОК |
| 15 minute summer 15 minute summer | 24 25 | 10 10 | 73.375 73.382 | 0.064 0.042 | 10.7 2.7 | 0.0180 0.0118 | 0.0000 0.0000 | OK OK |
| 15 minute summer | 26 | 10 | 73.326 | 0.042 | 5.4 | 0.0118 | 0.0000 | OK |
| 15 minute summer | 27 | 12 | 73.250 | 0.614 | 34.5 | 0.1738 | 0.0000 | SURCHARGED |
| 15 minute summer | 28 | 10 | 73.381 | 0.041 | 2.7 | 0.0117 | 0.0000 | ОК |
| 15 minute summer | 29 | 10 | 73.288 | 0.037 | 5.4 | 0.0103 | 0.0000 | ОК |
| 15 minute summer | 30 | 10 | 73.141 | 0.041 | 2.7 | 0.0116 | 0.0000 | ОК |
| 15 minute summer | 31 | 10 | 73.052 | 0.039 | 5.4 | 0.0112 | 0.0000 | ОК |
| 15 minute summer | 32 | 12 | 72.651 | 0.225 | 43.4 | 0.0636 | 0.0000 | OK |
| 15 minute summer 15 minute summer | 33 34 | 1 10 | 73.200 73.165 | 0.000 0.056 | 0.0 5.4 | 0.0000 0.0159 | 0.0000 0.0000 | OK OK |
| 15 minute summer | 35 | 10 | 73.245 | 0.030 | 5.4 | 0.0133 | 0.0000 | ОК |
| 15 minute summer | 36 | 10 | 73.059 | 0.088 | 10.7 | 0.0250 | 0.0000 | ОК |
| 15 minute summer | 37 | 10 | 73.257 | 0.057 | 4.7 | 0.0161 | 0.0000 | ОК |
| 15 minute summer | 38 | 10 | 73.148 | 0.034 | 4.7 | 0.0096 | 0.0000 | ОК |
| 15 minute summer | 39 | 11 | 72.902 | 0.074 | 15.1 | 0.0210 | 0.0000 | ОК |
| | | | | | | | | |
| Link Event | US | Link | | Outflow | Velocity | Flow/Ca | - | • |
| (Upstream Depth) | Node | | Node | (I/s) | (m/s) | - | Vol (| m³) Vol (m ³) |
| (Upstream Depth) 15 minute summer | Node 1 | 1.000 | Node 2 | (I/s) 2.7 | (m/s) 0.546 | 0.15 | Vol (| m³) Vol (m³) 326 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 | 1.000 1.001 | Node 2 4 | (I/s) 2.7 5.3 | (m/s) 0.546 0.628 | 0.15 | Vol (51 0.0 01 0.1 | m³) Vol (m³) 326 202 |
| (Upstream Depth) 15 minute summer | Node 1 | 1.000 1.001 2.000 | Node 2 4 4 | (I/s) 2.7 5.3 2.7 | (m/s) 0.546 0.628 0.417 | 0.19 0.30 0.09 | Vol (51 0.0 51 0.1 90 0.0 | m³) Vol (m³) 326 202 501 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 | 1.000 1.001 | Node 2 4 | (I/s) 2.7 5.3 | (m/s) 0.546 0.628 | 0.15 0.30 0.55 | Vol (51 0.0 01 0.1 90 0.0 97 0.1 | m³) Vol (m³) 326 202 501 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 | 1.000 1.001 2.000 1.002 1.003 3.000 | Node 2 4 4 5 | (l/s) 2.7 5.3 2.7 10.6 10.6 2.7 | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 | 0.15 0.30 0.55 0.55 0.55 | Vol (51 0.0 01 0.1 00 0.0 07 0.1 13 0.1 51 0.2 | m³) Vol (m³) 326 202 501 062 951 456 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 | Node 2 4 5 10 7 9 | (l/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 | 0.15 0.30 0.55 0.55 0.55 0.15 | Vol (51 0.0 01 0.1 00 0.0 97 0.1 13 0.1 51 0.2 17 0.1 | m³) Vol (m³) 326 202 501 062 951 456 708 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 | Node 2 4 5 10 7 9 9 | (I/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 2.9 | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 0.396 | 0.15 0.30 0.55 0.55 0.15 0.15 0.15 | Vol (51 0.0 01 0.1 90 0.0 97 0.1 13 0.1 51 0.2 17 0.1 24 0.2 | m ³) Vol (m ³) 326 202 501 062 951 456 708 377 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 | Node 2 4 5 10 7 9 9 10 | (I/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 2.9 9.9 | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 0.396 0.701 | 0.15 0.30 0.55 0.55 0.15 0.35 0.12 0.35 | Vol (51 0.0 01 0.1 00 0.0 07 0.1 13 0.1 51 0.2 17 0.1 24 0.2 58 0.1 | m ³) Vol (m ³) 326 202 501 062 951 456 708 377 426 |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 | Node 2 4 5 10 7 9 9 10 | (I/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 2.9 9.9 | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 0.396 0.701 | 0.15 0.30 0.55 0.55 0.15 0.35 0.12 0.55 0.74 0.74 | Vol (51 0.0 01 0.1 00 0.0 07 0.1 13 0.1 51 0.2 17 0.1 24 0.2 58 0.1 49 0.3 12 0.0 | m ³) Vol (m ³) 326 202 501 062 951 456 708 377 426 345 361 |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | $\begin{array}{c} 1.000\\ 1.001\\ 2.000\\ 1.002\\ 1.003\\ 3.000\\ 3.001\\ 4.000\\ 3.002\\ 1.004\\ 5.000\\ 5.001\\ 6.000\\ 5.002\\ \end{array}$ | Node 2 4 5 10 7 9 9 10 15 12 14 14 14 | (I/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 2.9 9.9 13.3 2.0 3.9 2.0 7.8 | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 0.396 0.701 0.846 0.488 0.870 0.667 0.942 | 0.15 0.30 0.55 0.55 0.15 0.15 0.12 0.12 0.12 0.12 0.12 0.22 0.01 | Vol (51 0.0 01 0.1 00 0.0 07 0.1 13 0.1 51 0.2 17 0.1 24 0.2 58 0.1 49 0.3 12 0.0 21 0.0 58 0.1 58 0.1 | m ³) Vol (m ³) 326 202 501 062 951 456 708 377 426 345 361 586 271 361 |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 | <pre>(l/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 2.9 9.9 13.3 2.0 3.9 2.0 7.8 17.6 0.0 4.7</pre> | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 0.396 0.701 0.846 0.488 0.870 0.667 0.942 1.002 0.000 0.919 | 0.11 0.30 0.55 0.52 0.52 0.12 0.32 0.12 0.55 0.74 0.11 0.22 0.07 0.15 0.74 0.11 0.22 0.07 0.15 0.99 0.00 0.22 | Vol (51 0.0 01 0.1 00 0.0 07 0.1 13 0.1 51 0.2 13 0.1 51 0.2 167 0.1 24 0.2 58 0.1 12 0.0 21 0.0 72 0.0 58 0.1 98 0.1 90 0.0 26 0.0 | m³) Vol (m³) 326 202 501 062 951 456 708 377 426 345 361 586 271 361 581 259 679 |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.001 8.000 7.002 1.006 9.001 10.000 9.001 10.000 9.002 11.000 9.001 11.000 11.001 13.000 12.001 13.000 13.001 13.000 13.001 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 36 36 39 | <pre>(I/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 2.9 9.9 13.3 2.0 3.9 2.0 7.8 17.6 0.0 4.7 0.0 9.3 2.8 2.7 5.3 2.7 5.3 2.7 10.6 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7</pre> | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 0.396 0.701 0.846 0.488 0.870 0.667 0.942 1.002 0.000 0.919 0.000 0.919 0.000 0.919 0.000 0.945 1.296 0.533 0.785 0.556 1.680 0.725 1.383 1.915 0.741 1.074 0.707 1.006 1.158 0.000 0.634 0.714 1.081 | 0.19 0.30 0.59 0.52 0.12 0.32 0.12 0.32 0.12 0.52 0.74 0.12 0.22 0.07 0.12 0.22 0.07 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.12 0.00 0.22 0.12 0.00 0.30 0.30 0.30 0.5 | Vol (51 0.0 51 0.0 51 0.1 60 0.0 67 0.1 63 0.1 64 0.2 65 0.1 64 0.2 65 0.1 64 0.2 68 0.1 68 0.1 68 0.1 60 0.0 60 0.0 60 0.0 61 0.0 62 0.0 63 0.1 64 0.2 65 0.0 64 0.2 65 0.0 64 0.2 65 0.0 64 0.2 65 0.0 64 0.2 65 0.0 64 0.2 65 0.0 64 0.2 6 | m³) Vol (m³) 326 327 501 062 951 456 708 377 426 345 361 586 271 361 587 162 653 684 541 166 188 969 389 322 449 330 364 247 277 164 748 402 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.006 9.000 1.000 9.002 11.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 27 24 27 26 27 22 24 27 26 27 32 24 27 32 31 32 43 36 36 39 38 | <pre>(I/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 2.9 9.9 13.3 2.0 3.9 2.0 7.8 17.6 0.0 4.7 0.0 9.3 22.8 2.7 5.3 2.7 10.6 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 43.0 0.0 5.3 5.4 10.5 4.7</pre> | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 0.396 0.701 0.846 0.488 0.870 0.667 0.942 1.002 0.000 0.919 0.000 0.919 0.000 0.945 1.296 0.533 0.785 0.556 1.680 0.725 1.383 1.915 0.741 1.074 0.707 1.006 1.158 0.000 0.634 0.714 1.081 1.038 | 0.19 0.30 0.59 0.52 0.52 0.12 0.32 0.12 0.59 0.74 0.12 0.22 0.07 0.12 0.22 0.07 0.12 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.12 0.00 0.22 0.12 0.00 0.33 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 | Vol (51 0.0 01 0.1 00 0.0 07 0.1 13 0.1 14 0.2 15 0.2 17 0.1 12 0.0 13 0.1 14 0.2 15 0.2 16 0.1 17 0.1 12 0.0 12 0.0 12 0.0 12 0.0 12 0.0 12 0.0 12 0.0 12 0.0 12 0.0 13 0.1 14 0.2 15 0.0 16 0.0 17 0.0 18 0.1 19 0.1 10 0.1 10 0.1 10 0.1 1 | m³) Vol (m³) 326 327 501 062 951 456 708 377 426 345 361 586 271 361 587 362 679 221 587 162 653 684 541 166 188 969 389 322 449 330 364 247 277 164 748 402 393 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 34 35 36 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.001 8.000 7.002 1.006 9.001 10.000 9.001 10.000 9.002 11.000 9.001 11.000 11.001 13.000 12.001 13.000 13.001 13.000 13.001 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 36 36 39 | <pre>(I/s) 2.7 5.3 2.7 10.6 10.6 2.7 5.6 2.9 9.9 13.3 2.0 3.9 2.0 7.8 17.6 0.0 4.7 0.0 9.3 2.8 2.7 5.3 2.7 5.3 2.7 10.6 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7 5.3 2.7</pre> | (m/s) 0.546 0.628 0.417 1.048 1.159 0.549 0.616 0.396 0.701 0.846 0.488 0.870 0.667 0.942 1.002 0.000 0.919 0.000 0.919 0.000 0.919 0.000 0.945 1.296 0.533 0.785 0.556 1.680 0.725 1.383 1.915 0.741 1.074 0.707 1.006 1.158 0.000 0.634 0.714 1.081 | 0.11 0.30 0.59 0.52 0.12 0.32 0.12 0.32 0.12 0.22 0.07 0.12 0.22 0.07 0.12 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.00 0.22 0.02 0.12 0.02 0.12 0.02 0.02 0.02 0.02 0.12 0.02 0.00 0.22 0.12 0.02 0.12 0.02 0.00 0.22 0.12 0.12 0.12 0.02 0.00 0.22 0.12 0.12 0.12 0.00 0.22 0.12 | Vol (51 0.0 51 0.0 51 0.1 60 0.0 67 0.1 60 0.2 61 0.2 62 0.1 63 0.1 64 0.2 68 0.1 69 0.3 60 0.0 63 0.1 60 0.0 61 0.0 62 0.0 63 0.1 64 0.2 67 0.3 61 0.0 62 0.0 63 0.0 64 0.2 65 0.0 64 0.2 65 0.0 64 0.2 65 0.0 61 0.1 62 0.0 63 0.0 63 0.0 6 | m³) Vol (m³) 326 327 501 062 951 456 708 377 426 345 361 586 271 361 587 162 653 684 541 166 188 969 389 322 449 330 364 247 277 164 748 402 393 309 |

File: Calcs (2).pfd Network: SuDS Cecily Austin 02/12/2024

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.90%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (I/s) | Node Vol (m³) | Flood (m³) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute summer | 40 | 10 | 73.007 | 0.057 | 4.7 | 0.0160 | 0.0000 | ОК |
| 15 minute summer | 41 | 10 | 72.901 | 0.037 | 4.7 | 0.0104 | 0.0000 | ОК |
| 120 minute winter | 42 | 114 | 73.758 | 0.883 | 30.6 | 58.3861 | 0.0000 | FLOOD RISK |
| 15 minute summer | 43 | 11 | 72.489 | 0.224 | 71.0 | 0.0633 | 0.0000 | ОК |
| 15 minute summer | 44 | 10 | 73.141 | 0.041 | 2.7 | 0.0116 | 0.0000 | ОК |
| 15 minute summer | 45 | 10 | 73.058 | 0.041 | 5.4 | 0.0116 | 0.0000 | ОК |
| 15 minute summer | 46 | 11 | 72.353 | 0.145 | 80.6 | 0.0411 | 0.0000 | ОК |
| | | | | | | | | |
| 15 minute summer | 48 | 10 | 71.882 | 0.062 | 5.4 | 0.0175 | 0.0000 | OK |
| 15 minute summer | 49 | 10 | 71.824 | 0.083 | 10.7 | 0.0235 | 0.0000 | ОК |
| 15 minute summer | 50 | 12 | 71.702 | 0.149 | 5.4 | 0.0422 | 0.0000 | ОК |
| 15 minute summer | 51 | 12 | 71.695 | 0.234 | 20.7 | 0.0662 | 0.0000 | SURCHARGED |
| 15 minute summer | 52 | 12 | 71.637 | 0.356 | 96.8 | 0.1007 | 0.0000 | SURCHARGED |
| 720 minute winter | 53 | 705 | 71.458 | 0.458 | 12.9 | 245.1083 | 0.0000 | SURCHARGED |
| 15 minute summer | 53_OUT | 1 | 70.855 | 0.150 | 0.8 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 47 | 12 | 71.843 | 0.424 | 80.4 | 0.4793 | 0.0000 | SURCHARGED |

| Link Event (Upstream Depth) | US Node | Link | DS Node | Outflow (I/s) | Velocity (m/s) | Flow/Cap | Link Vol (m³) | Discharge Vol (m ³) |
|--------------------------------|------------|--------------|------------|------------------|-------------------|----------|------------------|------------------------------------|
| 15 minute summer | 40 | 17.000 | 41 | 4.7 | 1.002 | 0.263 | 0.0404 | , |
| 15 minute summer | 41 | 17.001 | 43 | 4.6 | 1.204 | 0.131 | 0.0678 | |
| 120 minute winter | 42 | Orifice | 43 | 4.8 | | | | |
| 15 minute summer | 43 | 1.009 | 46 | 70.8 | 1.561 | 0.994 | 0.6190 | |
| 15 minute summer | 44 | 19.000 | 45 | 2.7 | 0.687 | 0.151 | 0.0324 | |
| 15 minute summer | 45 | 19.001 | 46 | 5.4 | 1.467 | 0.134 | 0.0123 | |
| 15 minute summer | 46 | 1.010 | 47 | 80.4 | 1.539 | 0.453 | 1.6076 | |
| | | | | | | | | |
| 15 minute summer | 48 | 20.000 | 49 | 5.3 | 0.726 | 0.301 | 0.0476 | |
| 15 minute summer | 49 | 20.001 | 51 | 10.6 | 0.679 | 0.595 | 0.3866 | |
| 15 minute summer | 50 | 21.000 | 51 | 4.7 | 0.416 | 0.265 | 0.1619 | |
| 15 minute summer | 51 | 20.002 | 52 | 20.1 | 1.147 | 1.133 | 0.0528 | |
| 15 minute summer | 52 | 1.012 | 53 | 96.9 | 1.400 | 1.358 | 1.7790 | |
| 720 minute winter | 53 | Hydro-Brake® | 53 OUT | 0.8 | | | | 207.4 |
| | | - | — | | | | | |
| 15 minute summer | 47 | 1.011 | 52 | 79.0 | 1.122 | 1.107 | 2.3344 | |

US

Node Event

Status

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.90%

Node

Flood

Peak Level Depth Inflow

| Node Event | US | Peak (minc) | Level | Depth (m) | | Node | F100d (m³) | Status |
|--|--|--|---|--|--|--|---|--|
| 15 minute summer | Node 1 | (mins) 10 | (m) 74.338 | (m) 0.038 | (I/s) 2.4 | Vol (m ³) 0.0108 | 0.0000 | ОК |
| 15 minute summer | 2 | 10 | 74.338 | 0.053 | 4.8 | 0.0108 | 0.0000 | OK |
| 15 minute summer | 3 | 10 | 74.329 | 0.033 | 2.4 | 0.00149 | 0.0000 | OK |
| 15 minute summer | 4 | 10 | 74.329 | 0.029 | 2.4 9.5 | 0.0235 | 0.0000 | OK |
| 15 minute summer | 5 | 10 | 74.063 | 0.083 | 9.4 | 0.0233 | 0.0000 | OK |
| 15 minute summer | 6 | 13 | 73.620 | 0.210 | 3.0 | 0.0595 | 0.0000 | SURCHARGED |
| 15 minute summer | 7 | 13 | 73.619 | 0.348 | 4.8 | 0.0985 | 0.0000 | SURCHARGED |
| 15 minute summer | 8 | 13 | 73.616 | 0.206 | 3.7 | 0.0582 | 0.0000 | SURCHARGED |
| 15 minute summer | 9 | 13 | 73.613 | 0.439 | 8.8 | 0.1242 | 0.0000 | SURCHARGED |
| 15 minute summer | 10 | 13 | 73.606 | 0.513 | 15.7 | 0.1453 | 0.0000 | SURCHARGED |
| 15 minute summer | 11 | 10 | 74.122 | 0.032 | 1.8 | 0.0091 | 0.0000 | OK |
| 15 minute summer | 12 | 10 | 74.050 | 0.032 | 3.6 | 0.0135 | 0.0000 | OK |
| 15 minute summer | 13 | 10 | 74.116 | 0.026 | 1.8 | 0.0073 | 0.0000 | OK |
| 15 minute summer | 14 | 10 | 73.911 | 0.038 | 7.1 | 0.0108 | 0.0000 | OK |
| 15 minute summer | 15 | 13 | 73.529 | 0.625 | 18.6 | 0.1769 | 0.0000 | SURCHARGED |
| 15 minute summer | 16 | 1 | 73.850 | 0.000 | 0.0 | 0.0000 | 0.0000 | OK |
| 15 minute summer | 17 | 10 | 73.778 | 0.048 | 4.3 | 0.0135 | 0.0000 | ОК |
| 15 minute summer | 18 | 1 | 74.050 | 0.000 | 0.0 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 19 | 10 | 73.596 | 0.046 | 8.5 | 0.0131 | 0.0000 | ОК |
| 15 minute summer | 20 | 13 | 73.438 | 0.623 | 20.4 | 0.1764 | 0.0000 | SURCHARGED |
| 15 minute summer | 21 | 10 | 73.577 | 0.037 | 2.4 | 0.0105 | 0.0000 | ОК |
| 15 minute summer | 22 | 10 | 73.467 | 0.055 | 4.8 | 0.0156 | 0.0000 | ОК |
| 15 minute summer | 23 | 10 | 73.571 | 0.031 | 2.4 | 0.0087 | 0.0000 | ОК |
| 15 minute summer | 24 | 10 | 73.370 | 0.059 | 9.5 | 0.0167 | 0.0000 | ОК |
| 15 minute summer | 25 | 10 | 73.379 | 0.039 | 2.4 | 0.0111 | 0.0000 | ОК |
| 15 minute summer | 26 | 10 | 73.324 | 0.035 | 4.8 | 0.0099 | 0.0000 | ОК |
| 15 minute summer | 27 | 12 | 73.170 | 0.534 | 31.9 | 0.1513 | 0.0000 | SURCHARGED |
| 15 minute summer | 28 | 10 | 73.379 | 0.039 | 2.4 | 0.0110 | 0.0000 | ОК |
| 15 minute summer | 29 | 10 | 73.285 | 0.034 | 4.8 | 0.0097 | 0.0000 | ОК |
| 15 minute summer | 30 | 10 | 73.139 | 0.039 | 2.4 | 0.0109 | 0.0000 | ОК |
| 15 minute summer | 31 | 10 | 73.050 | 0.037 | 4.8 | 0.0105 | 0.0000 | ОК |
| 15 minute summer | 32 | 12 | 72.629 | 0.203 | 40.1 | 0.0573 | 0.0000 | ОК |
| 15 minute summer | 33 | 1 | 73.200 | 0.000 | 0.0 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 34 | 10 | 73.162 | 0.053 | 4.9 | 0.0151 | 0.0000 | ОК |
| 15 minute summer | 35 | 10 | 73.243 | 0.043 | 4.9 | 0.0122 | 0.0000 | ОК |
| 15 minute summer | 36 | 10 | 73.054 | 0.083 | 9.7 | 0.0236 | 0.0000 | ОК |
| 15 minute summer | 37 | 10 | 73.254 | 0.054 | 4.3 | 0.0154 | 0.0000 | ОК |
| 15 minute summer | 38 | 10 | 73.146 | 0.032 | 4.3 | 0.0092 | 0.0000 | ОК |
| 15 minute summer | 39 | 11 | 72.899 | 0.071 | 13.8 | 0.0200 | 0.0000 | ОК |
| | | | | | | | 0.0000 | |
| | | | | | | | | |
| Link Event | US | Link | | Outflow | Velocity | | ap Lin | k Discharge |
| (Upstream Depth) | Node | | Node | (I/s) | Velocity (m/s) | Flow/Ca | ap Lin Vol (| k Discharge m³) Vol (m³) |
| (Upstream Depth) 15 minute summer | Node 1 | 1.000 | Node 2 | (I/s) 2.4 | Velocity (m/s) 0.530 | Flow/Ca | ap Lin Vol (34 0.03 | k Discharge m ³) Vol (m ³) 298 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 | 1.000 1.001 | Node 2 4 | (I/s) 2.4 4.7 | Velocity (m/s) 0.530 0.611 | Flow/Ca 0.13 0.26 | ap Lin Vol (34 0.01 | k Discharge m³) Vol (m³) 298 097 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 | 1.000 1.001 2.000 | Node 2 4 4 | (I/s) 2.4 4.7 2.4 | Velocity (m/s) 0.530 0.611 0.406 | Flow/Ca 0.13 0.26 0.08 | ap Lin Vol (34 0.0 57 0.1 30 0.0 | k Discharge m³) Vol (m³) 298 297 457 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 | 1.000 1.001 2.000 1.002 | Node 2 4 4 5 | (I/s) 2.4 4.7 2.4 9.4 | Velocity (m/s) 0.530 0.611 0.406 1.020 | Flow/Ca 0.13 0.26 0.08 0.53 | ap Lin Vol (34 34 0.0 57 0.1 30 0.0 30 0.0 | k Discharge m ³) Vol (m ³) 298 297 457 967 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 | 1.000 1.001 2.000 1.002 1.003 | Node 2 4 5 10 | (I/s) 2.4 4.7 2.4 9.4 9.4 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 | Flow/Ca 0.13 0.26 0.08 0.53 0.45 | ap Lin Vol (34 34 0.02 57 0.11 30 0.02 30 0.02 55 0.1 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 | 1.000 1.001 2.000 1.002 1.003 3.000 | Node 2 4 5 10 7 | (l/s) 2.4 4.7 2.4 9.4 9.4 2.6 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 | Flow/Ca 0.13 0.26 0.08 0.53 0.45 0.14 | ap Lin Vol (34 0.02 57 0.11 30 0.02 30 0.02 35 0.11 35 0.11 35 0.12 36 0.02 35 0.11 38 0.22 36 0.24 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 | Node 2 4 5 10 7 9 | (I/s) 2.4 4.7 2.4 9.4 9.4 2.6 5.3 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 | Flow/Ca 0.13 0.26 0.08 0.53 0.49 0.14 0.29 | Ap Lin Vol (34 0.01 57 0.11 30 30 0.02 35 355 0.11 34 48 0.22 37 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 708 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 | Node 2 4 5 10 7 9 9 | (I/s) 2.4 4.7 2.4 9.4 2.6 5.3 2.6 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 | Flow/Ca 0.13 0.26 0.08 0.53 0.49 0.14 0.29 0.12 | ap Lin Vol (34 0.00 57 0.11 30 30 0.00 30 55 0.11 34 48 0.24 36 97 0.11 1 | k Discharge m ³) Vol (m ³) 298 297 457 967 781 456 708 377 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 | Node 2 4 5 10 7 9 9 10 | (I/s) 2.4 4.7 2.4 9.4 2.6 5.3 2.6 9.3 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 | Flow/Ca 0.13 0.26 0.08 0.53 0.49 0.14 0.29 0.12 0.52 | ap Lin Vol (34 34 0.01 57 0.11 30 0.02 35 0.11 48 0.22 97 0.11 11 0.22 22 0.14 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 708 377 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 9 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 | Node 2 4 5 10 7 9 9 10 15 | (I/s) 2.4 4.7 2.4 9.4 2.6 5.3 2.6 9.3 12.9 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 | Flow/Ca 0.13 0.26 0.08 0.53 0.45 0.14 0.29 0.12 0.52 0.72 | ap Lin Vol (34 0.01 57 0.11 30 0.02 355 0.11 48 0.22 97 0.11 11 0.22 22 0.14 26 0.33 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 708 377 426 345 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 | Node 2 4 5 10 7 9 9 9 10 15 12 | (I/s) 2.4 4.7 2.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 | Flow/Ca 0.13 0.26 0.08 0.14 0.14 0.14 0.14 0.12 0.12 0.12 0.12 0.72 0.10 | Ap Lin Vol (34 34 0.01 57 0.11 30 0.00 30 0.01 35 0.11 48 0.22 97 0.11 11 0.21 22 0.14 26 0.33 00 0.01 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 708 377 426 345 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 | Node 2 4 5 10 7 9 9 9 10 15 12 14 | (I/s) 2.4 4.7 2.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 | Flow/Ca 0.13 0.26 0.08 0.53 0.45 0.14 0.29 0.12 0.52 0.72 0.10 0.19 | Ap Lin Vol (34 0.01 34 0.02 35 30 0.02 35 30 0.02 35 35 0.11 36 48 0.22 37 37 0.11 0.22 37 0.12 33 36 0.33 36 37 0.12 33 30 0.03 36 30 0.03 36 | k Discharge m³) Vol (m³) 298 097 457 967 781 456 708 377 426 345 334 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 | Node 2 4 5 10 7 9 9 9 10 15 12 14 14 | (I/s) 2.4 4.7 2.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 | Flow/Ca 0.13 0.26 0.08 0.14 0.14 0.14 0.14 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 | Ap Lin Vol (34 0.01 367 0.11 30 0.00 360 0.02 35 0.11 363 0.22 0.11 10.22 367 0.11 0.22 0.11 311 0.22 0.11 10.22 322 0.14 0.02 36 368 0.00 36 0.00 368 0.00 35 0.01 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 708 377 426 345 334 541 251 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | $\begin{array}{c} 1.000\\ 1.001\\ 2.000\\ 1.002\\ 1.003\\ 3.000\\ 3.001\\ 4.000\\ 3.002\\ 1.004\\ 5.000\\ 5.001\\ 6.000\\ 5.002 \end{array}$ | Node 2 4 5 10 7 9 9 10 15 12 14 14 14 | (I/s) 2.4 4.7 2.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 | Flow/Ca 0.13 0.26 0.08 0.53 0.49 0.14 0.29 0.14 0.52 0.12 0.12 0.12 0.12 | ap Lin 34 0.01 57 0.11 30 0.02 30 0.02 55 0.11 48 0.22 97 0.11 11 0.22 22 0.14 26 0.33 98 0.00 95 0.01 96 0.01 97 0.11 12 0.14 26 0.33 90 0.01 98 0.01 95 0.01 94 0.11 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 708 377 426 345 334 541 251 |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.002 1.006 9.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.935 0.000 0.897 0.000 0.975 1.211 0.517 | Flow/Ca 0.13 0.26 0.08 0.53 0.45 0.14 0.29 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 | ap Lin Vol (34 0.0 57 0.1 30 0.0 30 0.0 30 0.0 30 0.0 55 0.1 48 0.2 97 0.1 11 0.2 22 0.1 26 0.3 00 0.0 31 0.1 32 0.1 33 0.1 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 03 0.3 34 0.0 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 708 377 426 345 334 541 251 343 581 242 536 207 565 162 597 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 | Node 2 4 4 5 10 7 9 9 10 15 12 14 15 20 17 19 19 20 27 22 24 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.943 0.935 0.000 0.897 0.000 0.897 0.000 0.975 1.211 0.517 0.766 | Flow/Ca 0.13 0.26 0.08 0.53 0.45 0.14 0.29 0.12 0.52 0.12 0.12 0.12 0.12 0.06 0.14 0.93 0.06 0.14 0.93 0.00 0.20 0.12 0.02 0.13 0.20 | Ap Lin Vol (34 0.01 34 0.02 57 0.11 30 0.00 30 0.02 35 0.11 35 0.11 48 0.22 0.11 1 11 0.22 0.11 22 0.12 26 0.33 0.00 33 0.01 36 0.00 0.00 0.00 0.00 31 0.11 0.02 0.01 0.00 32 0.11 0.33 0.33 0.33 34 0.02 0.03 0.33 0.33 | k Discharge m ³) Vol (m ³) 298 097 457 967 781 456 708 377 426 345 334 541 251 343 581 242 536 207 565 162 597 522 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.001 10.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.935 0.000 0.897 0.000 0.975 1.211 0.517 0.766 0.541 | Flow/Ca 0.13 0.26 0.08 0.14 0.14 0.29 0.12 0.12 0.12 0.12 0.12 0.06 0.14 0.93 0.00 0.20 0.20 0.12 0.02 0.12 0.02 0.13 0.26 0.13 0.26 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 | Ap Lin 34 0.01 357 0.11 360 0.09 361 0.11 362 0.11 363 0.09 365 0.11 48 0.29 97 0.11 11 0.22 02 0.11 365 0.00 368 0.01 37 0.11 30 0.00 31 0.11 32 0.11 33 0.33 34 0.00 32 0.01 33 0.33 34 0.00 32 0.01 | kDischargem³)Vol (m³)298097457967781456708377426334541251343581242536207565162597522492 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.002 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4 9.4</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.935 0.000 0.897 0.000 0.897 0.000 0.975 1.211 0.517 0.766 0.541 1.636 | Flow/Ca 0.13 0.26 0.08 0.53 0.49 0.14 0.29 0.14 0.29 0.12 0.12 0.12 0.06 0.14 0.93 0.00 0.20 0.20 0.12 0.00 0.20 0.13 0.20 0.03 0.20 0.20 0.20 0.20 0.20 0.2 | Ap Lin Vol (34 0.01 367 0.11 30 0.00 360 0.01 35 0.11 360 0.02 35 0.11 361 0.22 0.11 0.22 367 0.11 0.22 0.11 360 0.00 35 0.00 368 0.00 35 0.00 369 0.00 0.00 31 361 0.11 0.00 0.00 360 0.00 0.00 0.00 360 0.01 0.00 0.00 37 0.11 0.12 0.11 360 0.01 0.00 0.01 37 0.33 0.33 0.33 384 0.00 0.02 0.00 37 0.03 0.33 0.03 384 0.00 0.03 0.33 385 0.00 0.01 0.01 <td>kDischargem³)Vol (m³)298097457967781456708377426345334541251343581242536207565162597522444</td> | kDischargem³)Vol (m³)298097457967781456708377426345334541251343581242536207565162597522444 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 | 1.000 1.001 2.000 1.002 1.003 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.002 11.000 | Node 2 4 4 5 10 7 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 24 27 26 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.935 0.000 0.897 0.000 0.897 0.000 0.975 1.211 0.517 0.766 0.541 1.636 0.702 | Flow/Ca 0.13 0.26 0.08 0.14 0.14 0.29 0.14 0.29 0.12 0.12 0.12 0.12 0.12 0.12 0.00 0.20 0.2 | Ap Lin 34 0.0 57 0.1 30 0.0 30 0.0 30 0.0 30 0.0 30 0.1 48 0.2 97 0.1 11 0.2 22 0.1 26 0.3 00 0.0 98 0.0 93 0.3 34 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 00 0.0 03 0.3 04 0.0 05 0.0 03 0.3 04 0.0 | kDischargem³)Vol (m³)298097457967781456708377426345334541251343581242536207565162597522492144172 |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.002 11.000 11.001 1.007 | Node 2 4 4 5 10 7 9 10 15 12 14 14 15 20 17 19 20 27 20 27 22 24 24 27 26 27 32 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.943 0.943 0.943 0.943 0.935 0.000 0.897 0.000 0.897 0.000 0.897 0.000 0.975 1.211 0.517 0.766 0.541 1.636 0.702 1.345 1.803 | Flow/Ca 0.13 0.26 0.08 0.14 0.14 0.14 0.29 0.14 0.14 0.29 0.14 0.52 0.12 0.12 0.06 0.14 0.93 0.06 0.14 0.93 0.06 0.14 0.93 0.06 0.12 0.00 0.20 0.13 0.20 0.13 0.20 0.13 0.21 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.1 | Ap Lin Vol (34 0.0 57 0.1 30 0.0 30 0.0 30 0.0 30 0.0 30 0.0 30 0.0 35 0.1 48 0.2 97 0.1 11 0.2 22 0.1 30 0.0 31 0.1 31 0.1 32 0.1 33 0.0 34 0.0 35 0.0 34 0.0 35 0.0 34 0.0 35 0.0 34 0.0 35 0.0 34 0.0 35 0.0 36 0.0 37 0.2 | k Discharge Vol (m³) 298 Vol (m³) 297 - 457 - 967 - 781 - 456 - 781 - 456 - 708 - 347 - 426 - 343 - 541 - 251 - 343 - 581 - 242 - 536 - 207 - 565 - 162 - 597 - 522 - 492 - 144 - 172 - 956 - 366 - |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.002 11.000 11.000 | Node 2 4 4 5 10 7 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4 9.4 2.4 4.8 31.7</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.943 0.943 0.935 0.000 0.975 1.211 0.517 0.766 0.541 1.636 0.702 1.345 | Flow/Ca 0.13 0.26 0.08 0.14 0.14 0.14 0.29 0.12 0.12 0.12 0.12 0.06 0.14 0.93 0.00 0.14 0.93 0.00 0.20 0.12 0.02 0.13 0.22 0.13 0.23 0.13 0.13 | Ap Lin 34 0.01 35 0.11 30 0.00 30 0.01 30 0.02 35 0.11 36 0.22 97 0.11 11 0.22 22 0.11 24 0.00 36 0.00 37 0.11 36 0.00 37 0.11 30 0.00 31 0.11 32 0.11 33 0.33 34 0.00 35 0.00 34 0.00 35 0.00 34 0.01 35 0.02 34 0.02 33 0.22 34 0.02 34 0.02 | kDischargem³)Discharge298Vol (m³)298109714571967145617811456178114561781145617811456134315411251134315811242153612071565116215971522144411721956136622951 |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.001 1.000 11.000 11.001 1.007 12.000 13.001 1.008 14.000 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4 9.4 2.4 4.8 31.7 2.4 4.7 4.7 4.1 4.7 4.1 4.7 4.1 4.7 4.1 4.7 4.1 4.7 4.1 4.8 4.7 4.7 4.1 4.7 4.1 4.7 4.1 4.7 4.1 4.7 4.1 4.8 4.7 4.7 4.1 4.7 4.1 4.7 4.1 4.8 4.7 4.7 4.1 4.8</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.935 0.000 0.897 0.000 0.935 1.211 0.517 0.766 0.541 1.636 0.702 1.345 1.803 0.717 1.146 0.684 1.052 1.147 0.000 0.620 | Flow/Ca 0.13 0.26 0.08 0.14 0.14 0.29 0.14 0.14 0.29 0.14 0.12 0.12 0.06 0.14 0.93 0.00 0.20 0.20 0.20 0.20 0.13 0.22 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 | Ap Lin 34 0.01 35 0.11 30 0.00 30 0.01 30 0.00 30 0.01 30 0.01 30 0.01 30 0.02 35 0.11 11 0.22 00 0.00 32 0.11 33 0.31 34 0.01 35 0.00 34 0.01 35 0.00 34 0.01 35 0.00 34 0.01 35 0.00 34 0.01 34 0.02 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 35 | kDischargem³)DischargeVol (m³)298097457967456708377426345334541251343581242536207565162597522444172956366295311303223021258597 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 1.006 9.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.002 11.000 11.000 11.001 1.007 12.000 13.001 13.000 13.001 1.008 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 27 26 27 32 29 32 31 32 43 34 36 36 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4 9.4 2.4 4.8 31.7 2.4 4.7 4.1 0.0 4.8 4.9 </pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.935 0.000 0.897 0.000 0.975 1.211 0.517 0.766 0.541 1.636 0.702 1.345 1.803 0.717 1.146 0.684 1.052 1.147 0.000 0.620 0.703 | Flow/Ca 0.13 0.26 0.08 0.53 0.49 0.14 0.29 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.00 0.20 0.20 0.20 0.20 0.20 0.13 0.20 0.13 0.12 0.13 0.12 0.13 0.12 0.13 0.12 0.1 | Ap Lin 34 0.01 35 0.11 30 0.00 30 0.01 30 0.00 30 0.01 30 0.01 35 0.11 48 0.22 97 0.11 11 0.22 00 0.00 36 0.00 37 0.11 36 0.00 37 0.11 38 0.00 39 0.01 30 0.33 334 0.00 34 0.01 34 0.02 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 0.01 34 | kDischargem³)DischargeVol (m³)298097457967456708377426345334541251343581242536207565162597522444172956366295311303221258597311 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 | 1.000 1.001 2.000 1.002 1.003 3.001 4.000 3.001 4.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.001 1.000 9.001 1.000 11.000 11.000 11.001 1.000 11.001 1.000 12.001 13.000 12.001 13.000 13.001 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 36 36 39 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4 9.4 2.4 4.8 31.7 2.4 4.7 40.1 0.0 4.8 4.9 9.6</pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.935 0.000 0.897 0.000 0.975 1.211 0.517 0.766 0.541 1.636 0.702 1.345 1.803 0.717 1.146 0.684 1.052 1.147 0.000 0.620 0.703 1.056 | Flow/Ca 0.13 0.26 0.08 0.14 0.25 0.14 0.25 0.14 0.25 0.12 0.12 0.12 0.06 0.14 0.93 0.06 0.26 0.02 0.02 0.12 0.02 0.13 0.12 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 | Ap Lin 34 0.01 35 0.11 360 0.00 361 0.11 362 0.11 363 0.02 365 0.11 365 0.11 362 0.11 363 0.02 364 0.03 365 0.01 366 0.00 367 0.11 368 0.01 369 0.02 361 0.11 362 0.00 363 0.00 364 0.00 37 0.12 384 0.01 363 0.22 364 0.01 37 0.11 384 0.01 384 0.01 384 0.01 384 0.01 384 0.01 384 0.01 384 0.01 | kDischargem³)DischargeVol (m³)298097457967781456708377426345334541251343581242536207565162597522444172956366295311303221258086697311368 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 9.002 11.006 9.000 9.001 10.000 9.002 11.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 13.001 13.000 13.001 13.000 14.002 14.002 16.000 | Node 2 4 4 5 10 7 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 22 24 27 26 27 32 29 32 31 32 43 34 36 39 38 | <pre>(I/s) 2.4 4.7 2.4 9.4 9.4 9.4 2.6 5.3 2.6 9.3 12.9 1.8 3.5 1.8 7.0 16.5 0.0 4.2 0.0 8.5 21.3 2.4 4.7 2.4 4.8 31.7 2.4 4.7 4.1 0.0 4.8 4.9 9.6 4.3 </pre> | Velocity (m/s) 0.530 0.611 0.406 1.020 1.126 0.531 0.594 0.382 0.711 0.829 0.474 0.845 0.647 0.943 0.935 0.000 0.897 0.000 0.975 1.211 0.517 0.766 0.541 1.636 0.702 1.345 1.803 0.717 1.146 0.684 1.052 1.147 0.000 0.620 0.703 1.056 1.012 | Flow/Ca 0.13 0.26 0.08 0.14 0.29 0.14 0.29 0.14 0.29 0.14 0.29 0.12 0.1 | Ap Lin Vol (34 0.0 57 0.1 30 0.0 30 0.0 30 0.0 30 0.0 30 0.0 30 0.0 31 0.1 32 0.1 33 0.0 34 0.0 35 0.0 36 0.0 37 0.1 38 0.0 39 0.0 30 0.0 31 0.1 32 0.0 33 0.0 34 0.0 35 0.0 34 0.0 34 0.0 34 0.0 34 0.0 34 0.0 34 0.0 35 0.0 36 0.1 37 0.1 3 | kDischarge Vol (m³)298Vol (m³)298Vol (m³)297-457-967-781-456-708-343-541-251-343-581-242-536-207-565-162-597-522-444-172-956-303-233-221-258-311-368-290- |

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.90%

| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (I/s) | Node Vol (m³) | Flood (m³) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute summer | 40 | 10 | 73.004 | 0.054 | 4.3 | 0.0152 | 0.0000 | OK |
| 15 minute summer | 41 | 10 | 72.899 | 0.035 | 4.3 | 0.0099 | 0.0000 | ОК |
| 120 minute winter | 42 | 112 | 73.725 | 0.850 | 27.7 | 50.6401 | 0.0000 | FLOOD RISK |
| 15 minute summer | 43 | 11 | 72.478 | 0.213 | 65.8 | 0.0603 | 0.0000 | ОК |
| 15 minute summer | 44 | 10 | 73.138 | 0.038 | 2.4 | 0.0109 | 0.0000 | OK |
| 15 minute summer | 45 | 10 | 73.056 | 0.038 | 4.8 | 0.0109 | 0.0000 | ОК |
| 15 minute summer | 46 | 11 | 72.347 | 0.139 | 74.4 | 0.0393 | 0.0000 | ОК |
| 15 minuto summor | 40 | 10 | 71 070 | | 4.0 | 0.0165 | 0 0000 | OK |
| 15 minute summer | 48 | 10 | 71.878 | 0.058 | 4.9 | 0.0165 | 0.0000 | OK |
| 15 minute summer | 49 | 10 | 71.820 | 0.079 | 9.8 | 0.0222 | 0.0000 | OK |
| 15 minute summer | 50 | 12 | 71.641 | 0.088 | 4.9 | 0.0250 | 0.0000 | ОК |
| 15 minute summer | 51 | 12 | 71.640 | 0.179 | 18.9 | 0.0506 | 0.0000 | SURCHARGED |
| 15 minute summer | 52 | 12 | 71.594 | 0.313 | 88.3 | 0.0886 | 0.0000 | SURCHARGED |
| 720 minute winter | 53 | 705 | 71.414 | 0.414 | 12.2 | 218.3077 | 0.0000 | SURCHARGED |
| 15 minute summer | 53_OUT | 1 | 70.855 | 0.150 | 0.8 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 47 | 12 | 71.765 | 0.346 | 74.1 | 0.3916 | 0.0000 | SURCHARGED |

| Link Event | US | Link | DS | Outflow | Velocity | Flow/Cap | Link | Discharge |
|-------------------|------|--------------|--------|---------|----------|----------|----------|-----------|
| (Upstream Depth) | Node | | Node | (I/s) | (m/s) | | Vol (m³) | Vol (m³) |
| 15 minute summer | 40 | 17.000 | 41 | 4.3 | 0.977 | 0.240 | 0.0379 | |
| 15 minute summer | 41 | 17.001 | 43 | 4.2 | 1.205 | 0.119 | 0.0576 | |
| 120 minute winter | 42 | Orifice | 43 | 4.7 | | | | |
| 15 minute summer | 43 | 1.009 | 46 | 65.6 | 1.532 | 0.921 | 0.5866 | |
| 15 minute summer | 44 | 19.000 | 45 | 2.4 | 0.667 | 0.134 | 0.0296 | |
| 15 minute summer | 45 | 19.001 | 46 | 4.7 | 1.424 | 0.119 | 0.0112 | |
| 15 minute summer | 46 | 1.010 | 47 | 74.1 | 1.522 | 0.418 | 1.5703 | |
| | | | | | | | | |
| 15 minute summer | 48 | 20.000 | 49 | 4.9 | 0.720 | 0.274 | 0.0437 | |
| 15 minute summer | 49 | 20.001 | 51 | 9.6 | 0.669 | 0.543 | 0.3771 | |
| 15 minute summer | 50 | 21.000 | 51 | 4.6 | 0.407 | 0.256 | 0.1307 | |
| 15 minute summer | 51 | 20.002 | 52 | 18.2 | 1.042 | 1.024 | 0.0528 | |
| 15 minute summer | 52 | 1.012 | 53 | 87.8 | 1.309 | 1.230 | 1.7434 | |
| 720 minute winter | 53 | Hydro-Brake® | 53_OUT | 0.8 | | | | 209.2 |
| | | | | | | | | |
| 15 minute summer | 47 | 1.011 | 52 | 72.4 | 1.028 | 1.014 | 2.3344 | |

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.90%

| Node Event | US Node | Peak | Level | Depth | Inflow | Node Vol (m³) | Flood | Status |
|--|--|---|---|--|---|--|--|---|
| 15 minute summer | node 1 | (mins) 10 | (m) 74.346 | (m) 0.046 | (I/s) 3.4 | 0.0131 | (m³) 0.0000 | ОК |
| 15 minute summer | 2 | 10 | 74.298 | 0.040 | 6.8 | 0.0131 | 0.0000 | OK |
| 15 minute summer | 3 | 10 | 74.334 | 0.034 | 3.4 | 0.0097 | 0.0000 | OK |
| 15 minute summer | 4 | 10 | 74.198 | 0.105 | 13.5 | 0.0298 | 0.0000 | OK |
| 15 minute summer | 5 | 11 | 74.081 | 0.092 | 13.4 | 0.0260 | 0.0000 | ОК |
| 15 minute summer | 6 | 14 | 74.047 | 0.637 | 4.9 | 0.1803 | 0.0000 | SURCHARGED |
| 15 minute summer | 7 | 14 | 74.047 | 0.776 | 7.3 | 0.2197 | 0.0000 | SURCHARGED |
| 15 minute summer | 8 | 14 | 74.046 | 0.636 | 7.9 | 0.1799 | 0.0000 | SURCHARGED |
| 15 minute summer | 9 | 14 | 74.044 | 0.870 | 10.5 | 0.2462 | 0.0000 | SURCHARGED |
| 15 minute summer | 10 | 13 | 74.033 | 0.940 | 15.5 | 0.2659 | 0.0000 | SURCHARGED |
| 15 minute summer 15 minute summer | 11 12 | 10 10 | 74.128 74.060 | 0.038 0.058 | 2.6 5.2 | 0.0109 0.0164 | 0.0000 0.0000 | OK OK |
| 15 minute summer | 13 | 10 | 74.000 | 0.031 | 2.6 | 0.0088 | 0.0000 | OK |
| 15 minute summer | 14 | 10 | 73.919 | 0.031 | 10.2 | 0.0130 | 0.0000 | OK |
| 15 minute summer | 15 | 13 | 73.912 | 1.008 | 20.7 | 0.2854 | 0.0000 | FLOOD RISK |
| 15 minute summer | 16 | 1 | 73.850 | 0.000 | 0.0 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 17 | 13 | 73.805 | 0.075 | 6.0 | 0.0213 | 0.0000 | ОК |
| 15 minute summer | 18 | 1 | 74.050 | 0.000 | 0.0 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 19 | 13 | 73.800 | 0.250 | 12.0 | 0.0708 | 0.0000 | SURCHARGED |
| 15 minute summer | 20 | 13 | 73.783 | 0.968 | 24.5 | 0.2741 | 0.0000 | FLOOD RISK |
| 15 minute summer | 21 | 10 10 | 73.584 | 0.044 | 3.4 | 0.0125 | 0.0000 | OK OK |
| 15 minute summer 15 minute summer | 22 23 | 10 | 73.480 73.577 | 0.068 0.037 | 6.8 3.4 | 0.0192 0.0104 | 0.0000 0.0000 | OK |
| 15 minute summer | 24 | 13 | 73.415 | 0.104 | 13.5 | 0.0294 | 0.0000 | OK |
| 15 minute summer | 25 | 13 | 73.416 | 0.076 | 3.4 | 0.0214 | 0.0000 | ОК |
| 15 minute summer | 26 | 13 | 73.417 | 0.128 | 6.8 | 0.0362 | 0.0000 | OK |
| 15 minute summer | 27 | 13 | 73.410 | 0.774 | 37.1 | 0.2190 | 0.0000 | SURCHARGED |
| 15 minute summer | 28 | 10 | 73.387 | 0.047 | 3.4 | 0.0132 | 0.0000 | ОК |
| 15 minute summer | 29 | 10 | 73.292 | 0.041 | 6.8 | 0.0116 | 0.0000 | ОК |
| 15 minute summer | 30 | 10 | 73.146 | 0.046 | 3.4 | 0.0131 | 0.0000 | ОК |
| 15 minute summer | 31 | 10 | 73.057 | 0.044 | 6.8 | 0.0126 | 0.0000 | ОК |
| 15 minute summer | 32 | 11 | 72.691 | 0.265 | 48.7 | 0.0750 | 0.0000 | SURCHARGED |
| 15 minute summer | 33 34 | 1 10 | 73.200 73.173 | 0.000 | 0.0 | 0.0000 | 0.0000 0.0000 | OK OK |
| 15 minute summer 15 minute summer | 34 35 | 10 | 73.251 | 0.064 0.051 | 6.8 6.8 | 0.0181 0.0144 | 0.0000 | OK |
| 15 minute summer | 36 | 10 | 73.075 | 0.104 | 13.5 | 0.0293 | 0.0000 | OK |
| 15 minute summer | 37 | 10 | 73.265 | 0.065 | 6.0 | 0.0184 | 0.0000 | ОК |
| 15 minute summer | 38 | 10 | 73.152 | 0.038 | 6.0 | 0.0109 | 0.0000 | OK |
| 15 minute summer | 39 | 10 | 72.913 | 0.085 | 19.2 | 0.0239 | 0.0000 | ОК |
| | | | | | | | | |
| | | | | | | | | |
| Link Event | US | Link | | Outflow | Velocity | Flow/Ca | - | • |
| (Upstream Depth) | Node | | Node | (I/s) | (m/s) | | Vol (| m³) Vol (m³) |
| (Upstream Depth) 15 minute summer | Node 1 | 1.000 | Node 2 | (I/s) 3.4 | (m/s) 0.577 | 0.19 | Vol (| m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 | 1.000 1.001 | Node 2 4 | (I/s) 3.4 6.7 | (m/s) 0.577 0.658 | 0.19 | Vol (91 0.0 80 0.1 | m³) Vol (m³) 389 440 |
| (Upstream Depth) 15 minute summer | Node 1 | 1.000 | Node 2 | (I/s) 3.4 | (m/s) 0.577 | 0.19 0.38 0.12 | Vol (91 0.0 30 0.1 14 0.0 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 | 1.000 1.001 2.000 | Node 2 4 4 | (I/s) 3.4 6.7 3.4 | (m/s) 0.577 0.658 0.435 | 0.19 0.38 0.12 0.79 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 | m³) Vol (m³) 389 440 601 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 | 1.000 1.001 2.000 1.002 | Node 2 4 5 10 7 | (l/s) 3.4 6.7 3.4 13.4 13.5 3.2 | (m/s) 0.577 0.658 0.435 1.098 | 0.19 0.38 0.11 0.79 0.64 | Vol (91 0.0 80 0.1 14 0.0 55 0.1 49 0.2 | m³) Vol (m³) 389 440 601 278 |
| (Upstream Depth) 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 | Node 2 4 5 10 7 9 | (l/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 | 0.19 0.38 0.11 0.79 0.64 0.11 0.36 | Vol (91 0.0 80 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 | m³) Vol (m³) 389 440 601 278 939 456 708 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 | Node 2 4 5 10 7 9 9 | (I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 | 0.19 0.38 0.11 0.79 0.64 0.11 0.30 | Vol (91 0.0 80 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 | m ³) Vol (m ³) 389 440 601 278 939 456 708 377 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 | Node 2 4 5 10 7 9 9 10 | (l/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 | 0.19 0.38 0.12 0.64 0.11 0.36 -0.19 0.63 | Vol (91 0.0 80 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 38 0.1 | m ³) Vol (m ³) 389 440 601 278 939 456 708 377 426 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 | Node 2 4 5 10 7 9 9 10 15 | <pre>(l/s)</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 | 0.19 0.38 0.11 0.79 0.64 0.11 0.36 -0.19 0.65 0.79 | Vol (91 0.0 80 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 60 0.2 38 0.1 90 0.2 38 0.1 98 0.3 | m ³) Vol (m ³) 389 440 601 278 939 456 708 377 426 345 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 | Node 2 4 5 10 7 9 9 9 10 15 12 | (I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 | 0.19 0.38 0.11 0.64 0.11 0.36 -0.19 0.63 0.79 0.14 | Vol (91 0.0 80 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 98 0.3 44 0.0 | m ³) Vol (m ³) 389 440 601 278 939 456 708 377 426 345 435 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 | Node 2 4 5 10 7 9 9 9 10 15 12 14 | (I/s) 3.4 6.7 3.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 | 0.19 0.33 0.11 0.64 0.11 0.36 -0.19 0.63 0.79 0.14 0.23 | Vol (91 0.0 80 0.1 14 0.0 55 0.1 49 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 98 0.3 44 0.0 35 0.0 | m³) Vol (m³) 389 440 601 278 939 456 708 377 426 345 435 705 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 | Node 2 4 5 10 7 9 9 9 10 15 12 | (I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 | 0.19 0.38 0.11 0.64 0.11 0.30 -0.19 0.63 0.79 0.14 0.28 0.14 | Vol (91 0.0 80 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 98 0.3 44 0.0 95 0.0 93 0.0 | m ³) Vol (m ³) 389 440 601 278 939 456 708 377 426 345 435 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 | $\begin{array}{c} 1.000\\ 1.001\\ 2.000\\ 1.002\\ 1.003\\ 3.000\\ 3.001\\ 4.000\\ 3.002\\ 1.004\\ 5.000\\ 5.001\\ 6.000\\ \end{array}$ | Node 2 4 5 10 7 9 9 9 10 15 12 14 14 | (I/s) 3.4 6.7 3.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 | 0.19 0.38 0.11 0.64 0.11 0.36 -0.19 0.63 0.79 0.14 0.28 0.24 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 98 0.3 44 0.0 35 0.0 93 0.0 04 0.1 | m³) Vol (m³) 389 440 601 278 939 456 708 377 426 345 435 705 326 |
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| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.001 10.000 9.002 11.000 11.001 1.007 12.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 24 27 26 27 32 29 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.957 0.000 0.963 1.485 0.562 0.818 0.562 0.818 0.562 0.818 1.727 0.772 1.295 2.109 0.790 | 0.19 0.33 0.12 0.64 0.11 0.36 0.12 0.63 0.79 0.14 0.29 0.20 0.20 1.01 0.00 0.29 0.14 0.15 0.14 0.15 0.12 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 78 0.2 78 0.2 78 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 93 0.0 93 0.0 94 0.0 95 0.0 90 0.1 90 0.0 91 0.0 92 0.3 91 0.0 92 0.1 93 0.0 94 0.0 95 0.1 96 0.0 97 0.2 90 0.0 | m³) Vol (m³) 389 440 601 278 939 456 708 377 426 345 335 435 705 326 4409 581 443 776 784 478 162 780 977 860 383 633 551 390 381 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.002 1.006 9.001 1.006 9.001 1.000 9.002 11.000 11.001 1.007 12.000 12.001 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 32 29 32 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4 6.8</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.953 1.485 0.562 0.818 0.581 1.727 0.772 1.295 2.109 0.790 1.157 | 0.19 0.38 0.12 0.64 0.12 0.64 0.12 0.63 0.79 0.14 0.28 0.26 0.20 1.07 0.00 0.29 0.01 0.14 0.33 0.13 0.14 0.33 0.14 0.19 0.112 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 93 0.0 93 0.0 94 0.1 90 0.0 90 0.0 90 0.0 91 0.0 92 0.3 931 0.0 94 0.0 95 0.1 97 0.2 90 0.0 90 0.0 90 0.0 90 0.0 90 0.0 90 0.0 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 9.001 10.000 9.001 10.000 9.002 11.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 24 27 26 27 22 24 27 26 27 32 29 32 31 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4 6.8 3.4</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.953 1.485 0.562 0.818 0.581 1.727 0.752 2.109 0.790 1.157 0.752 | 0.19 0.38 0.12 0.64 0.12 0.63 0.79 0.14 0.28 0.09 0.20 1.07 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.01 0.00 0.29 0.00 0.29 0.00 0.29 0.14 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.14 0.00 0.29 0.00 0.29 0.14 0.01 0.00 0.29 0.14 0.01 0.00 0.29 0.14 0.15 0.12 0.11 0.31 0.12 0.11 0.31 0.12 0.11 0.31 0.12 0.11 0.31 0.12 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 52 0.1 52 0.1 50 0.2 38 0.1 50 0.2 38 0.1 50 0.2 38 0.1 50 0.2 38 0.1 50 0.2 51 0.0 52 0.1 50 0.2 53 0.0 54 0.1 50 0.2 75 0.3 51 0.0 52 0.3 51 0.0 52 0.3 51 0.0 52 0.3 53 0.0 54 0.1 57 0.2 59 0.1 5 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 24 25 26 27 28 29 30 31 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.001 1.006 9.000 9.001 10.000 9.002 11.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 | Node 2 4 4 5 10 7 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 22 24 24 27 26 27 32 29 32 31 32 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4 6.8 3.4 6.8</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.953 1.485 0.562 0.818 0.581 1.727 0.772 1.295 2.109 0.790 1.157 0.752 1.040 | 0.19 0.38 0.17 0.64 0.11 0.63 0.12 0.63 0.79 0.14 0.28 0.09 0.26 1.07 0.26 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.01 0.00 0.29 0.01 0.00 0.29 0.13 0.13 0.13 0.13 0.13 0.14 0.33 0.12 0.14 0.33 0.12 0.14 0.33 0.12 0.14 0.33 0.12 0.14 0.33 0.12 0.14 0.33 0.12 0.14 0.33 0.13 0.13 0.12 0.14 0.33 0.12 0.14 0.33 0.12 0.14 0.15 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.13 0.13 0.12 0.14 0.15 0.12 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 93 0.0 93 0.0 93 0.0 94 0.1 95 0.3 90 0.1 90 0.0 91 0.0 92 0.0 93 0.0 94 0.0 95 0.3 91 0.0 92 0.1 93 0.0 94 0.0 95 0.1 97 0.2 9 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.001 10.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 13.001 1.008 | Node 2 4 4 5 10 7 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 22 24 24 27 26 27 32 29 31 32 43 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4 6.8 3.4 6.8 3.4 6.8 3.4</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.963 1.485 0.562 0.818 0.581 1.727 0.772 1.295 2.109 0.790 1.157 0.752 1.040 1.236 | 0.19 0.38 0.12 0.64 0.11 0.36 0.12 0.63 0.79 0.14 0.28 0.09 0.26 1.02 0.00 0.26 1.02 0.00 0.26 1.02 0.00 0.26 1.02 0.00 0.26 1.02 0.00 0.26 0.12 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.00 0.26 0.01 0.01 0.12 0.13 0.13 0.14 0.14 0.15 0.14 0.15 0.12 0.11 0.12 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 90 0.2 93 0.0 93 0.0 93 0.0 94 0.1 95 0.3 91 0.0 92 0.1 93 0.0 94 0.0 95 0.1 96 0.0 97 0.2 90 0.0 90 0.1 90 0.1 90 0.1 9 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.002 11.000 11.000 11.001 1.007 12.000 13.001 13.001 1.008 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 6.8 37.1 3.4 6.8 3.4 6.8 3.4 6.8</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.963 1.485 0.562 0.818 0.581 1.727 0.772 1.295 2.109 0.790 1.157 0.752 1.040 1.236 0.000 | 0.11 0.33 0.12 0.64 0.11 0.36 -0.19 0.62 0.26 0.26 0.20 0.00 0.20 0.00 0.20 0.00 0.20 0.11 0.11 0.31 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.12 0.11 0.12 0.11 0.12 0.00 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 78 0.2 78 0.2 78 0.2 78 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 93 0.0 94 0.0 95 0.0 90 0.1 90 0.0 91 0.0 92 0.1 93 0.0 94 0.0 95 0.1 97 0.2 90 0.0 91 0.0 92 0.1 93 0.0 94 0.1 9 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 10.000 9.001 10.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 13.001 1.008 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4 6.8 3.4 6.8 3.4 6.8 3.4</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.957 0.000 0.957 0.000 0.953 1.485 0.562 0.818 0.581 1.727 0.772 1.295 2.109 0.790 1.157 0.752 1.040 1.236 0.000 0.665 | 0.11 0.33 0.11 0.75 0.64 0.11 0.36 -0.19 0.62 0.26 0.26 0.26 0.00 0.26 1.01 0.00 0.26 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.00 0.26 0.00 0.26 0.01 0.00 0.26 0.00 0.26 0.01 0.00 0.26 0.01 0.01 0.11 0.12 0.01 0.12 0.00 0.33 0.12 0.12 0.00 0.33 0.12 0.00 0.12 0.00 0.12 0.00 0.00 0.12 0.00 0.00 0.00 0.00 0.00 0.12 0.00 0.0 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 93 0.0 93 0.0 94 0.1 95 0.3 91 0.0 90 0.1 90 0.0 91 0.0 92 0.1 93 0.0 94 0.0 95 0.1 97 0.2 90 0.0 90 0.1 90 0.0 90 0.1 9 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 | 1.000 1.001 2.000 1.002 1.003 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.001 8.000 9.001 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.002 11.000 11.000 11.007 12.000 13.001 1.008 14.000 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4 6.8 3.4 6.8 3.4 6.8 3.4 6.8 3.4 6.8 </pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.963 1.485 0.562 0.818 0.581 1.727 0.772 1.295 2.109 0.790 1.157 0.752 1.040 1.236 0.000 | 0.11 0.33 0.11 0.75 0.64 0.11 0.36 -0.19 0.62 0.26 0.26 0.26 0.00 0.26 1.01 0.00 0.26 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.01 0.02 0.00 0.26 0.01 0.02 0.00 0.26 0.01 0.00 0.26 0.00 0.26 0.01 0.00 0.26 0.00 0.26 0.01 0.00 0.26 0.01 0.01 0.11 0.12 0.01 0.12 0.00 0.33 0.12 0.12 0.00 0.33 0.12 0.00 0.12 0.00 0.12 0.00 0.00 0.12 0.00 0.00 0.00 0.00 0.00 0.12 0.00 0.0 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 52 0.1 52 0.1 52 0.1 52 0.1 50 0.2 38 0.1 50 0.2 38 0.1 50 0.2 38 0.1 50 0.2 38 0.1 50 0.0 51 0.0 52 0.3 53 0.0 54 0.1 50 0.0 51 0.0 52 0.3 51 0.0 52 0.3 51 0.0 52 0.3 53 0.0 54 0.1 57 0.2 50 0.0 5 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 | 1.000 1.001 2.000 1.002 1.003 3.001 4.000 3.001 4.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.002 1.006 9.001 10.000 9.001 10.000 9.002 11.000 9.002 11.000 11.001 1.007 12.000 12.001 13.000 13.001 1.008 14.000 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 34 36 36 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4 6.8 3.4 6.8 3.4 6.8 3.4 6.8 3.4 6.8 </pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.957 0.000 0.957 0.000 0.953 1.485 0.562 0.818 0.581 1.727 0.752 1.295 2.109 0.790 1.157 0.752 1.040 1.236 0.000 0.665 0.752 | 0.19 0.38 0.12 0.64 0.12 0.64 0.12 0.63 0.79 0.14 0.28 0.09 0.26 1.02 0.00 0.29 0.00 0.29 0.00 0.29 0.00 0.29 0.012 0.00 0.29 0.12 0.012 0.00 0.29 0.12 0.012 0.00 0.29 0.12 0.012 0.00 0.29 0.12 0.012 0.00 0.29 0.12 0.012 0.00 0.29 0.12 0.00 0.38 0.24 0.02 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 52 0.1 52 0.1 52 0.1 52 0.1 52 0.1 52 0.1 52 0.1 50 0.2 38 0.1 50 0.2 38 0.1 50 0.0 51 0.0 52 0.3 50 0.0 50 0.2 75 0.3 51 0.0 52 0.3 51 0.0 52 0.3 51 0.0 52 0.1 50 0.0 51 0.0 52 0.1 50 0.0 50 0.0 5 | m³) Vol (m³) 389 |
| (Upstream Depth) 15 minute summer 15 minute summer | Node 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 34 35 36 | 1.000 1.001 2.000 1.002 1.003 3.000 3.001 4.000 3.002 1.004 5.000 5.001 6.000 5.001 6.000 5.002 1.005 7.000 7.001 8.000 7.001 8.000 7.001 8.000 7.002 1.006 9.000 9.001 1.006 9.000 9.001 1.000 9.002 11.000 9.002 11.000 11.000 11.001 1.007 12.000 12.001 13.000 13.001 13.000 14.002 | Node 2 4 4 5 10 7 9 9 10 15 12 14 14 15 20 17 19 19 20 27 22 24 24 27 26 27 22 24 24 27 26 27 22 24 24 27 26 27 32 29 32 31 32 43 36 36 39 | <pre>(I/s) 3.4 6.7 3.4 13.4 13.5 3.2 6.4 -4.5 11.3 14.1 2.6 5.0 2.6 10.1 19.0 0.0 6.0 0.0 10.9 26.1 3.4 6.7 3.4 12.9 3.4 6.8 37.1 3.4 6.8 37.1 3.4 6.8 4 6.8 4 6.8 4 6.8 4 6.8 4 6.8 4 6.8</pre> | (m/s) 0.577 0.658 0.435 1.098 1.208 0.553 0.609 0.405 0.744 0.847 0.524 0.931 0.720 1.071 1.082 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.957 0.000 0.953 1.485 0.562 0.818 0.581 1.727 0.772 1.295 2.109 0.790 1.157 0.752 1.040 1.236 0.000 0.665 0.752 1.153 | 0.19 0.38 0.12 0.64 0.11 0.36 0.12 0.63 0.79 0.14 0.28 0.09 0.20 1.02 0.00 0.29 0.00 0.29 0.00 0.20 1.01 0.00 0.29 0.00 0.20 1.01 0.00 0.29 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.29 0.01 0.12 0.01 0.12 0.01 0.12 0.01 0.12 0.01 0.12 0.11 0.12 0.11 0.12 0.00 0.33 0.24 0.24 0.24 0.24 0.02 | Vol (91 0.0 30 0.1 14 0.0 55 0.1 49 0.2 78 0.2 52 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 38 0.1 90 0.2 93 0.0 93 0.0 94 0.1 95 0.3 91 0.0 92 0.1 93 0.0 94 0.1 95 0.1 90 0.0 90 0.1 90 0.1 90 0.1 90 0.1 90 0.1 90 0.1 90 0.1 9 | m³) Vol (m³) 389 |

File: Calcs (2).pfd Network: SuDS Cecily Austin 02/12/2024

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.90%

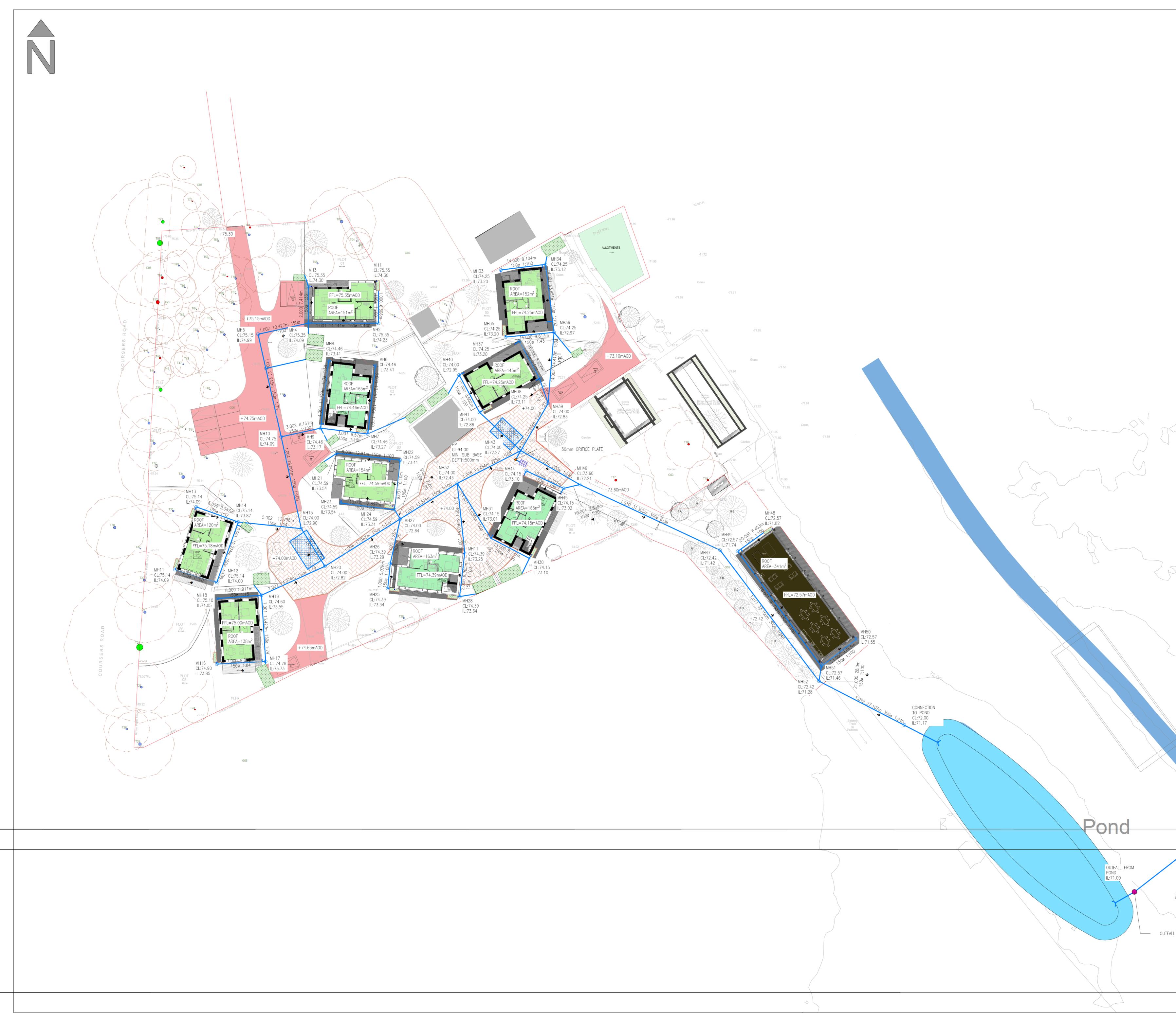
| Node Event | US Node | Peak (mins) | Level (m) | Depth (m) | Inflow (I/s) | Node Vol (m³) | Flood (m³) | Status |
|-------------------|------------|----------------|--------------|--------------|-----------------|------------------|---------------|------------|
| 15 minute summer | 40 | 10 | 73.015 | 0.065 | 6.0 | 0.0183 | 0.0000 | ОК |
| 15 minute summer | 41 | 10 | 72.905 | 0.041 | 6.0 | 0.0117 | 0.0000 | ОК |
| 120 minute winter | 42 | 118 | 73.853 | 0.978 | 38.8 | 80.5853 | 0.0000 | FLOOD RISK |
| 15 minute summer | 43 | 11 | 72.521 | 0.256 | 83.6 | 0.0725 | 0.0000 | ОК |
| 15 minute summer | 44 | 10 | 73.146 | 0.046 | 3.4 | 0.0131 | 0.0000 | ОК |
| 15 minute summer | 45 | 10 | 73.064 | 0.047 | 6.8 | 0.0133 | 0.0000 | ОК |
| 15 minute summer | 46 | 11 | 72.386 | 0.178 | 95.8 | 0.0503 | 0.0000 | ОК |
| | | | | | | | | |
| 15 minute summer | 48 | 12 | 71.947 | 0.127 | 6.8 | 0.0360 | 0.0000 | OK |
| 15 minute summer | 49 | 12 | 71.943 | 0.202 | 13.6 | 0.0571 | 0.0000 | SURCHARGED |
| 15 minute summer | 50 | 12 | 71.836 | 0.283 | 6.8 | 0.0800 | 0.0000 | SURCHARGED |
| 15 minute summer | 51 | 12 | 71.825 | 0.364 | 24.2 | 0.1029 | 0.0000 | SURCHARGED |
| 15 minute summer | 52 | 12 | 71.739 | 0.458 | 115.0 | 0.1297 | 0.0000 | SURCHARGED |
| 960 minute winter | 53 | 945 | 71.568 | 0.568 | 13.0 | 314.6036 | 0.0000 | SURCHARGED |
| 15 minute summer | 53_OUT | 1 | 70.855 | 0.150 | 0.8 | 0.0000 | 0.0000 | ОК |
| 15 minute summer | 47 | 12 | 72.029 | 0.610 | 94.5 | 0.6894 | 0.0000 | SURCHARGED |
| | | | | | | | | |

| Link Event | US | Link | DS | Outflow | Velocity | Flow/Cap | Link | Discharge |
|-------------------|------|--------------|--------|---------|----------|----------|----------|-----------|
| (Upstream Depth) | Node | | Node | (I/s) | (m/s) | | Vol (m³) | Vol (m³) |
| 15 minute summer | 40 | 17.000 | 41 | 6.0 | 1.070 | 0.335 | 0.0482 | |
| 15 minute summer | 41 | 17.001 | 43 | 5.9 | 1.242 | 0.167 | 0.0981 | |
| 120 minute winter | 42 | Orifice | 43 | 5.1 | | | | |
| 15 minute summer | 43 | 1.009 | 46 | 83.5 | 1.591 | 1.171 | 0.7385 | |
| 15 minute summer | 44 | 19.000 | 45 | 3.4 | 0.725 | 0.190 | 0.0387 | |
| 15 minute summer | 45 | 19.001 | 46 | 6.8 | 1.553 | 0.169 | 0.0146 | |
| 15 minute summer | 46 | 1.010 | 47 | 94.5 | 1.566 | 0.533 | 1.7595 | |
| | | | | | | | | |
| 15 minute summer | 48 | 20.000 | 49 | 6.8 | 0.742 | 0.382 | 0.1081 | |
| 15 minute summer | 49 | 20.001 | 51 | 12.2 | 0.762 | 0.687 | 0.4929 | |
| 15 minute summer | 50 | 21.000 | 51 | 5.8 | 0.428 | 0.328 | 0.1620 | |
| 15 minute summer | 51 | 20.002 | 52 | 21.9 | 1.246 | 1.234 | 0.0528 | |
| 15 minute summer | 52 | 1.012 | 53 | 115.1 | 1.640 | 1.611 | 1.8338 | |
| 960 minute winter | 53 | Hydro-Brake® | 53_OUT | 0.8 | | | | 211.6 |
| | | | | | | | | |
| 15 minute summer | 47 | 1.011 | 52 | 93.5 | 1.329 | 1.311 | 2.3344 | |

Appendix: J – Proposed SuDS Layout

FRA and SuDS Report | Eco-Living Cottages, Colney Heath, St Albans, AL4 0PB

TRANSPORT PLANNING I HIGHWAYS AND DRAINAGE FLOOD RISK 1st Floor Millers House, Roydon Road, Stanslead Abbotts, SG12 BHN. Tel 01920 871 777 e: contact@eastp.co.uk www.eastp.co.uk

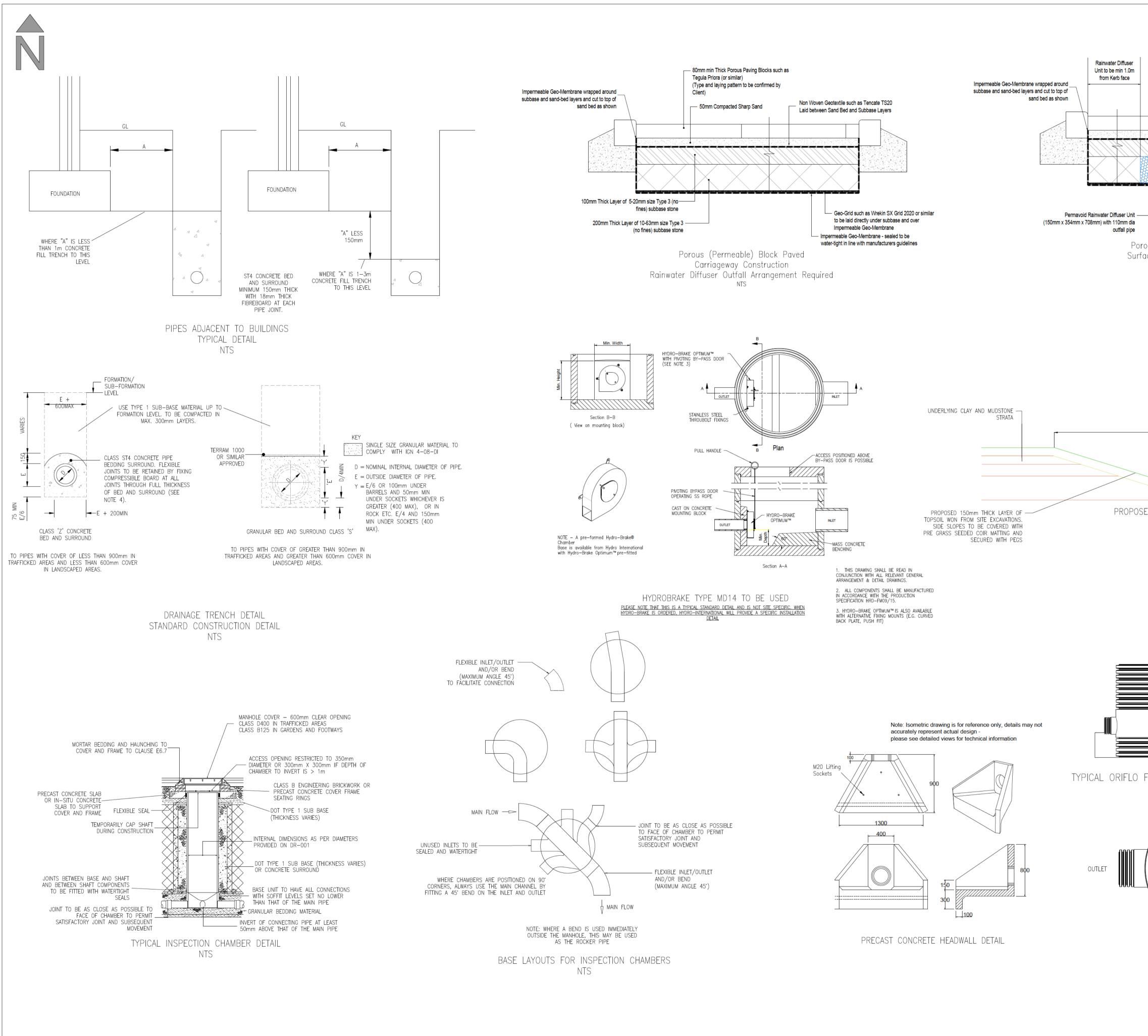


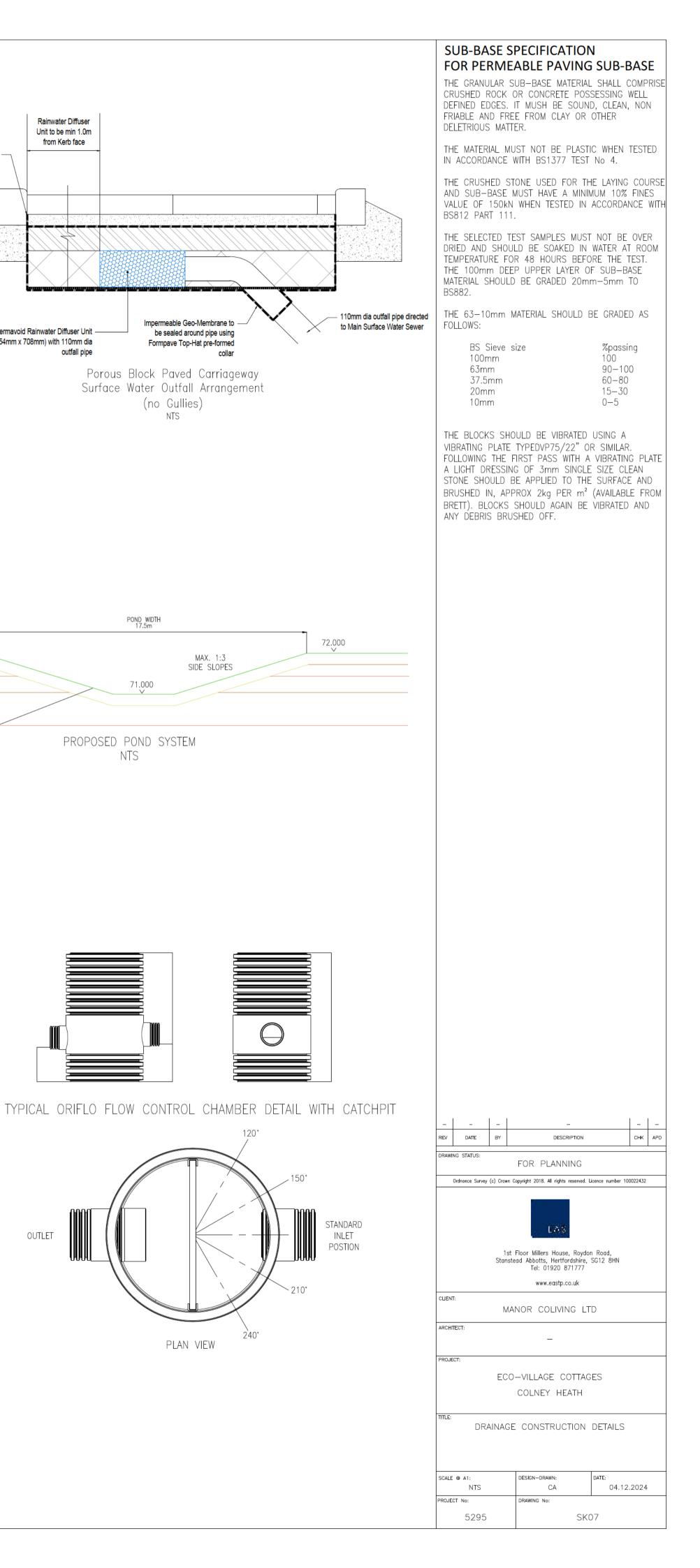
| | KEY |
|--|--|
| | SITE BOUNDARY |
| | EXISTING BUILDING |
| | PROPOSED BUILDING AN INTEN N |
| | PROPOSED BUILDING AN INTENT N PROPOSED HARDSTANDIN |
| | PERMEABLE PAVING WITH MIN. |
| | 500mm SUB-BASE |
| | CONFIRMED BY MANUFACTURE |
| | GREEN ROOF STORAGE POND (DEPTH: 1. m; |
| | <u>TOP OF POND: 809m²;</u> A E F POND: 453m ² – VOLUME: 1m ³ |
| | RAISED PLANTER WITH RE T I TE OUTFALL |
| | SURFACE WATER PIPE NETW K |
| | SURFACE WATER MANHOLE |
| | PERMAVOID DIFFUSER UNIT |
| | RAINWATER DOWNPIPE |
| | 50mm ORIFICE PLATE WITH SUITABLE FILTER |
| | → <u>HYDROBRAKE WITH SUIT</u> A LE FILTER TO RESTRICT RUN FF AT 0.8I/s |
| | HEADWALL |
| | |
| | N.B. CL OF EXISTING DITCH BASED ON LL AN. IL LEVEL OF EXISTING DITCH BASED ON SITE OBSERVATIONS. IL LEVEL TO BE CONFIRMEL AT A LATER STAGE BY AN EXTENDED TOPOGRAPHI AL |
| | SURVEY. |
| | RECORED ATTENDATION. |
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| CL:71.00 IL:70.00 | DRAWING STATUS: FOR PLANNING Ordnance Survey (c) Crown Copyright 2018. All rights reserved. Licence number 10 4 |
| | 4 |
| | 1st Floor Millers House, Roydon Road, |
| OUTFALL TO EXISTING DITCH | 1st Floor Millers House, Roydon Road, Stanstead Abbotts, Hertfordshire, SG12 8HN Tel: 01920 871777 www.eastp.co.uk |
| AT A MAXIMUM OUTFALL RATE OF 0.8I/s FOR ALL EVENTS UP TO AND INCLUDING THE | CLIENT: MANOR COLIVING LTD ARCHITECT: |
| 1 IN 100 YR. +40%CC CTED BY A HYDROBRAKE | ARCHITECT: PROJECT: |
| | ECO-VILLAGE COTTAGES COLNEY HEATH |
| | TITLE: SUDS DRAINAGE LAYOUT |
| | SCALE @ A0: DESIGN-DRAWN: DATE: |
| | 1:250 CA 03.1 4 PROJECT No: DRAWING No: |
| | 5295 SK06 |

Appendix: K – Standard Details

FRA and SuDS Report | Eco-Living Cottages, Colney Heath, St Albans, AL4 0PB

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Appendix: L – Exceedance Flow Plan

FRA and SuDS Report | Eco-Living Cottages, Colney Heath, St Albans, AL4 0PB

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