CAMPBELLTOWN CITY COUNCIL

# Campbelltown Southern Catchments Flood Study

## Draft Report

### Volume 1 of 2: Report & Appendices

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Catchment Simulation Solutions

# Campbelltown Southern Catchments Flood Study

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**Catchment Simulation Solutions**

**Suite 1, Level 10**
**70 Phillip Street**
**Sydney, NSW, 2000**

**(02) 8355 5500**
**(02) 8355 5505**
david.tetley@csse.com.au
www.csse.com.au


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Campbelltown City Council
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council@campbelltown.nsw.gov.au
(02) 4645 4111

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# Executive Summary

## Overview

The *Campbelltown Southern Catchments Flood Study* covers an area of 10.2 km$^2$ within the Campbelltown City Council Local Government Area (LGA). The study area incorporates the catchments of Mansfield Creek and Spring Creek as well as several smaller tributaries that drain into the Georges River. The study area extends across parts of the suburbs of Airds, Ambarvale, Bradbury, Rosemeadow and St Helens Park.

Most of the urbanised portion of the study area is drained by a sub-surface stormwater system. During periods of heavy rainfall there is potential for the capacity of the stormwater system to be exceeded, leading to local overland flooding. There is also potential for water to overtop the banks of the various creeks and detention basins and inundate the adjoining floodplains.

In recognition of the potential impact that flooding may have on the local community, Campbelltown City Council engaged Catchment Simulation Solutions to prepare a flood study for the Campbelltown Southern catchments. It documents flood behaviour across the study area for a range of design floods. This includes information on flood discharges, levels, depths and flow velocities. It also provides estimates of the variation in flood hazard and provides an assessment of the potential impacts of climate change on existing flood behaviour.

The outputs from the flood study will provide Council with an understanding of the flood risk across the study area and serve as the basis for a future floodplain risk management study where potential flood risk mitigation measures will be investigated to assist in better managing the flood risk.

## Computer Flood Models

Flood behaviour across the study area was defined using two computer models that were developed specifically for the study:

- A hydrologic model was developed using the XP-RAFTS software. The hydrologic model was used to simulate the transformation of rainfall into runoff and generate flow hydrographs at various locations.
- A hydraulic computer model was developed using the TUFLOW software. TUFLOW is a two-dimensional hydraulic software package that takes the flows hydrographs produced by the hydrologic model and simulates how that flow would move and be distributed across the catchment. The hydraulic model is used to predict key flood outputs such as water depths and velocities.

The XP-RAFTS and TUFLOW models that were developed for the study were validated against results documented in previous reports and flood models. The outcomes of the

validation confirmed that the computer models were providing realistic estimates of flows and flood levels across the study area.

## Design Flood Simulations

The validated models were used to simulate the design 20% AEP, 5% AEP, 2% AEP, 1% AEP, 0.5% AEP and 0.2% Annual Exceedance Probability (AEP) floods based upon the 2019 version of Australian Rainfall and Runoff (Geoscience Australia). The Probable Maximum Flood (PMF) was also simulated (the PMF is the largest flood that could occur). The results of each design flood were extracted, and figures were prepared to display the results. The figures are provided in Volume 2 and include:

- Floodwater Depths and Velocity Vectors: **Figures 9** to **15** (the velocity vectors show the direction and speed of water movement)
- Flood Hazard: **Figures 18** to **24** (flood hazard mapping shows the potential impact that floodwaters are likely to have on vehicles, people and buildings in the study area)
- Hydraulic Category: **Figures 27** to **33** (hydraulic category mapping shows areas that should preserved for the conveyance and storage of floodwaters).

The flood mapping shows that floodwaters are typically contained close to each of the main watercourses, detention basins as well as within roadways. However, there are several locations where floodwaters are predicted to travel overland through private property. Further details on areas at risk of inundation are provided in Section 5.4.2.

The total number of properties and buildings potentially at risk of inundation was also estimated. This determined that of the 6,965 properties and 10,110 buildings within the study area, 725 properties and 161 habitable buildings may be at least partly exposed to inundation during a 1% AEP flood. The location of properties and buildings potentially at risk of flooding during the 1% AEP flood is shown in **Figure 16**.

The study area incorporates an extensive stormwater system as well as a number of culverts. The results of a blockage sensitivity analysis show that the severity of flooding can be significantly increased due to blockage. This highlights the importance of routine maintenance on this infrastructure, particularly immediately after a flood.

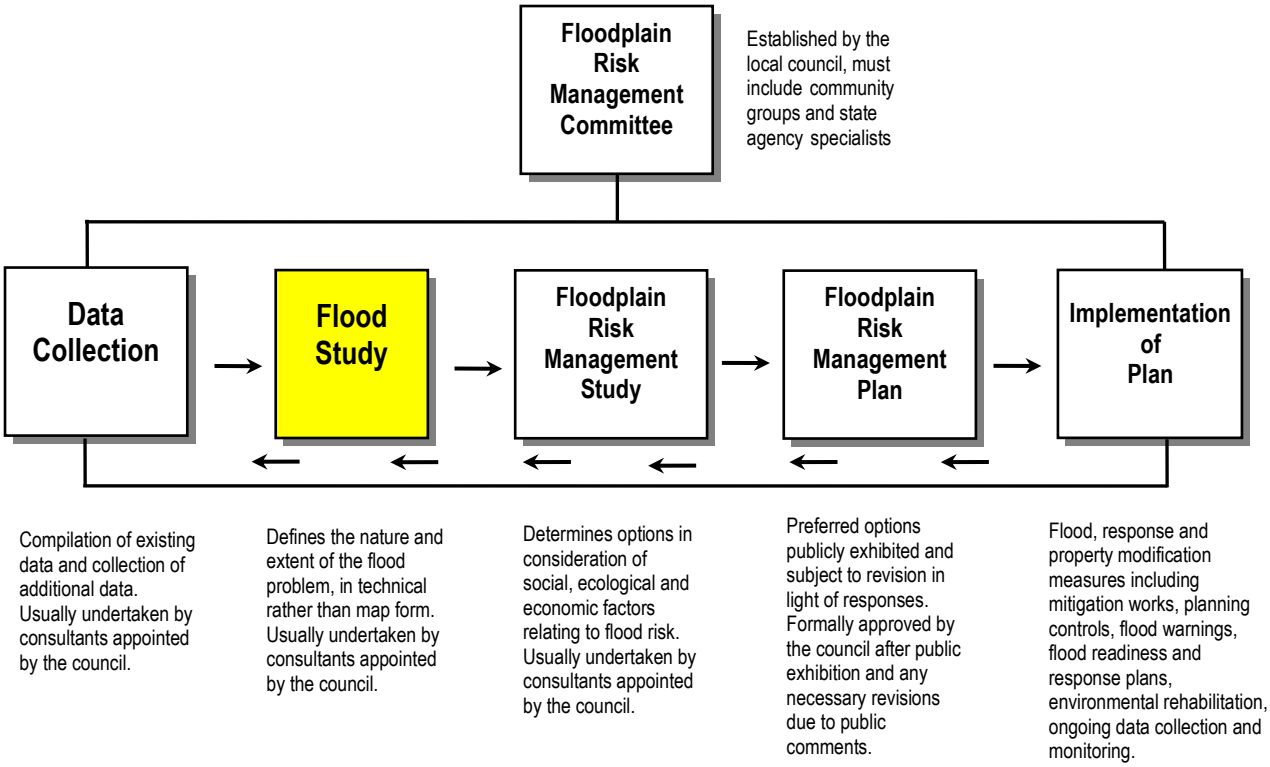
A number of roadways are also predicted to be inundated during the 1% AEP flood. Many of these roadways would be unsafe to drive through and highlights the ongoing need for community education to ensure people do not drive through floodwaters.

# FOREWORD

The NSW State Government's Flood Prone Land Policy is directed towards providing solutions to existing flooding problems in developed areas and ensuring that new development is compatible with the flood hazard and does not create additional flooding problems in other areas. The Policy is defined in the NSW Government's '*Floodplain Development Manual' (NSW Government, 2005)*.

Under the Policy, the management of flood liable land remains the responsibility of Local Government. The State Government subsidises flood mitigation works to alleviate existing problems and provides specialist technical advice to assist Local Government in its floodplain management responsibilities.

The Policy provides for technical and financial support by the State Government through the following stages:




The Campbelltown Southern Catchments Flood Study represents the second of the five stages in the process outlined above. The aim of the Flood Study is to produce information on flood discharges, levels, depths and velocities, for a range of flood events under existing topographic and development conditions. This information can then be used as a basis for identifying those areas where the greatest flood damage is likely to occur, thereby allowing a targeted assessment of where flood mitigation measures would be best implemented as part of the subsequent Floodplain Risk Management Study and Plan.

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# 1 INTRODUCTION

The *Campbelltown Southern Catchments Flood Study* covers an area of 10.2 km$^2$ within the Campbelltown City Council Local Government Area (LGA). The study area incorporates the catchments of Mansfield Creek and Spring Creek as well as several smaller tributaries that drain into the Georges River. As shown in **Figure 1**, the study area extends across parts of the suburbs of Airds, Ambarvale, Bradbury, Rosemeadow and St Helens Park.

The study area comprises a mix of residential and commercial areas with scattered areas of open space. Most of the urbanised portion of the study area is drained by a sub-surface stormwater system. During periods of heavy rainfall there is potential for the capacity of the stormwater system to be exceeded, leading to local overland flooding. There is also potential for water to overtop the banks of the various creeks and inundate the adjoining floodplains.

Accordingly, Campbelltown City Council engaged Catchment Simulation Solutions to prepare the flood study for the Campbelltown southern catchments. It documents flood behaviour across the study area for a range of design floods. This includes information on flood discharges, levels, depths, and flow velocities. It also provides estimates of the variation in flood hazard and hydraulic categories across the catchment and provides an assessment of the potential impacts of climate change and future catchment development on existing flood behaviour.

The flood study comprises two volumes:

- Volume 1 (this document): contains the report text and appendices.
- Volume 2: contains all figures and maps.

# 2 METHODOLOGY

## 2.1 Objectives

Campbelltown City Council outlined a range of objectives for the Campbelltown Southern Catchments Flood Study. This included:

- To review available flood-related information for the southern catchments study area.
- Consulting with the community to understand where flooding problems have been experienced.
- To prepare design flow hydrographs describing the spatial and temporal variation in flows across each catchment for both existing and future conditions using a hydrologic computer model.
- To develop a hydraulic computer model to simulate the passage of flood flows across the study area for both existing and future conditions.
- To use the computer models to define peak discharges, water levels, depths and velocities for the design 20% AEP, 5% AEP, 2%AEP, 1% AEP, 0.5% AEP and 0.2% AEP floods, and the Probable Maximum Flood (PMF).
- To produce maps showing the extent, depth and velocity of floodwaters for the range of design floods.
- To produce maps showing provisional flood hazard and hydraulic categories for the range of design floods.
- To produce emergency response precinct classification mapping to assist the State Emergency Service with emergency response planning.
- To quantify the potential impact of climate change on existing design flood behaviour.
- To quantify the potential impact of future development on existing flood behaviour.
- To map the flood planning area and preliminary flood control lots.

## 2.2 Adopted Approach

The general approach and methodology employed to achieve the study objectives involved:

- Compilation and review of available flood-related information and consultation with the community (Chapter 3).
- The development of a hydrologic model to simulate the transformation of rainfall into runoff and development of a hydraulic model to simulate the movement of floodwaters across the study area (Chapter 4).
- Use of the computer models to estimate peak discharges, water levels, depths, flow velocities and flood extents for the full range of design events up to and including the PMF for existing topographic and development conditions (Chapter 5).
- Use of the computer model results to generate flood hazard and flood function (hydraulic category) mapping as well as flood emergency response classifications (Chapter 6).

- Testing the sensitivity of the results generated by the computer model to variations in model input parameters, future development and climate change (Chapter 7).
- Use of computer model outputs and sensitivity analysis results to prepare flood planning area mapping (Chapter 8).

# 3 Data Collection and Review

## 3.1 Overview

A range of data were made available to assist with the preparation of the Campbelltown Southern Catchments Flood Study. This included previous reports, hydrologic investigations, digital data and engineering plans.

A description of each dataset along with a synopsis of its relevance to the flood study is summarised below.

## 3.2 Previous Reports

No previous flood studies have been completed specifically for any of the catchments contained within the Campbelltown Southern Catchments Study Area. However, a rapid assessment flood model of the Mansfield Creek and Spring Creek catchments was previously prepared, and a number of flooding investigations have been completed for the adjoining Bow Bowing/Bunbury Curran Creek catchment. An overview of these past investigations is provided below.

### 3.2.1 Bow Bowing/Bunbury Curran Creek Flood Studies

The *Bow Bowing/Bunbury Curran (BBBC) Creek Flood Studies* were a collection of eleven individual flood studies that collectively cover the BBBC Creek catchment which is located immediately west of the Campbelltown Southern Catchments.

The BBBC Creek Flood Studies included the following individual flood study reports:

- Birunji Creek Flood Study (Catchment Simulation Solutions, 2018)
- Blairmount Locality Flood Study (Catchment Simulation Solutions, 2018)
- Campbelltown Locality Flood Study (Catchment Simulation Solutions, 2018)
- Claymore Flood Study (Catchment Simulation Solutions, 2018)
- Glenfield and Macquarie Fields Flood Study (Catchment Simulation Solutions, 2018)
- Ingleburn Locality Flood Study (Catchment Simulation Solutions, 2018)
- Minto and McBarron Creek Flood Study (JWP, 2011) and Minto/McBarrown Creek TUFLOW Model Updates (Catchment Simulation Solutions, 2018)
- Smiths Creek Flood Study (Catchment Simulation Solutions, 2018)
- Thompsons Creek Flood Study (Catchment Simulation Solutions, 2018)
- Upper Bow Bowing Creek Flood Study (Catchment Simulation Solutions, 2018)
- Upper Bunbury Curran Creek Flood Study (Catchment Simulation Solutions, 2018)

The main goals of the flood studies were to define flood behaviour across each subcatchment/study area for both existing and potential future catchment and climate conditions. This included the development of hydrologic and hydraulic computer models to define flood behaviour for a range of design floods and flood mapping to present the results of the flood simulations.

Each individual flood study employed similar methodologies to ensure a consistent approach to flood estimation was applied across the BBBC Creek catchment. Campbelltown City Council expressed a desire for the current study to apply similar methodologies, where possible, to ensure consistency in flood estimation across the broader LGA. Therefore, a review of the hydrologic and hydraulic modelling approaches was completed, and the outcome of this review is presented in **Appendix A** (hydrologic modelling) and **Appendix B** (hydraulic modelling).

As outlined in **Appendix A** and **Appendix B**, the hydrologic and hydraulic modelling approaches were largely considered appropriate for application as part of the Southern Catchments Flood Study. However, there have been some advancements in modelling technology and approaches since the BBBC Creek Flood Studies were prepared. Therefore, some refinement of the modelling approaches was determined to be appropriate for the Southern Catchments Flood Study to ensure it followed modern best practice.

The recommended hydrologic updates largely revolve around application of 'Australian Rainfall and Runoff – A Guide to Flood Estimation' (Ball et al, 2019) (ARR2019) rather than the 1987 version that was applied as part the BBBC Creek Flood Studies. Key changes associated with ARR2019 include:

- Revised terminology when referring to design floods (e.g., use of Annual Exceedance Probability rather than Average Recurrence Interval).
- Breaking up impervious surfaces into directly connected impervious areas and indirectly connected impervious areas.
- Application of revised design rainfall that takes advantage of approximately 30 years of additional rainfall records.
- Application of revised initial/storm rainfall losses and continuing loss rates.
- Application of a minimum of 10 temporal patterns for each storm frequency and duration.

Several updates were also identified for the hydraulic modelling, including:

- Application of more recent versions of the TUFLOW software which include new features such as High Performance Computing (HPC) and Sub-Grid Sampling (SGS).
- The more detailed topographic and conveyance representation allowed by the new HPC/SGS features may allow the full catchment (including creeks) to be represented in 2D.
- More recent LiDAR information is available to define topography (also refer to Section 3.4.1).
- Review of Council's blockage policy relative to revised blockage guidance provided in ARR2019.

- Application of flows from the hydrologic model to the lowest point in each subcatchment rather than to stormwater pits to avoid double routing of flows (noting that this may require a more detailed subcatchment mapping).
- Reviewing specific fence types where they cross major overland flow paths and assigning specific blockage factors to provide an improved representation of the impediment to flow.

Although some updates to the modelling approaches are recommended, the BBBC Creek Flood Studies provide a solid foundation upon which the Southern Catchments Flood Study can be built. The BBBC Creek Flood Studies also provide valuable information for validating the performance of the models developed for the current study.

### 3.2.2 TUFLOW Model for the Spring Creek Catchment (2017)

Catchment Simulation Solutions prepared a TUFLOW model for the Spring Creek catchment on behalf of Campbelltown City Council in 2017. The goal of the TUFLOW model was to provide Council with a rapid assessment of flood liable land across catchment areas that were not included as part of the BBBC Creek Flood Studies discussed in the previous section.

The Spring Creek model was subsequently expanded in 2018 to incorporate the Mansfield Creek catchment to assist in quantifying potential flood impacts associated with the proposed upgrade of Appin Road. The extent of the TUFLOW model is shown on **Figure 2**. As shown in **Figure 2**, the Spring Creek TUFLOW model extends across a significant proportion of the Southern Catchments study area.

Key features of the TUFLOW model include:

- 2 metre grid size.
- Topography defined based on 2011 LiDAR.
- Spatial variation in roughness and rainfall losses largely defined using LEP GIS layer. However, additional GIS polygons were delineated by hand to represent concrete channels and car parking areas.
- Representation of all Council owned stormwater pits and pipes as embedded 1-dimensional network.
- All culverts included as embedded 1-dimensional structures. Invert elevations were estimated from LiDAR.
- Rainfall-on-grid approach adopted whereby rainfall is applied directly to the TUFLOW model.
- Critical 1% AEP and PMF storms simulated. 1% AEP hydrology defined based upon 1987 version of 'Australian Rainfall and Runoff – A Guide to Flood Estimation' (Engineers Australia).

Although the TUFLOW model provided Council with an understanding of flood behaviour across the Spring Creek catchment, it should be noted that the model development and validation did not undergo the same rigour as a typical government-funded flood study. Furthermore, the 1987 version of Australian Rainfall and Runoff has since been superseded by the 2019 version and new development has occurred across the catchment that would not be reflected in the 2011 LiDAR.

Nevertheless, some of the model inputs and outputs were useful in the development of the hydrologic and hydraulic modes for the current study. This included:

- Materials polygons for concrete channels and car parks were extracted and refined as part of the current study to define Manning's "n" roughness coefficients.
- Dimensions of all culverts were extracted and used to populate the culvert details in the hydraulic model.
- Inundation mapping served to identify where overland flow paths began to form and, therefore, where subcatchment delineation would need to commence as part of the hydrologic model development.

### 3.2.3 Bow Bowing Bunbury Curran Creek Catchment Detailed Flood Studies Pit Inlet Database Project (2011)

As part of the BBBC Creek Flood Studies, Campbelltown City Council commissioned Catchment Simulation Solutions to develop a Pit Inlet Database (July, 2011). The purpose of the Pit Inlet Database was to develop a set of flow depth versus inflow relationships for the various stormwater pit inlets across the BBBC Creek catchment. The study was commissioned to ensure that a consistent set of inlet capacity curves could be applied uniformly across all of the detailed flood study areas as part of the hydraulic computer modelling.

The inlet capacity curves were developed to take account of:

- The different pit inlet types (e.g., sag inlets, grated inlets, kerb inlets, combination inlets);
- The different pit dimensions and lintel sizes; and,
- The variation in pit approach grades.

The inlet capacity curves were verified against pit inlet capacity curves contained in Campbelltown City Council's '*Engineering Design for Development*' and were found to provide a reliable description of pit inlet capacity. However, the inlet capacity curves do not include any allowance for blockage. Therefore, appropriate blockage factors (i.e., 20% for on-grade pits and 50% for sag inlets) will need to be applied to ensure consistency with Council's DCP.

Due to the consistency in stormwater inlet types across the Campbelltown City Council LGA, the pit inlet database developed as part of this study was also considered appropriate for application to the Southern Catchments Flood Study.

### 3.2.4 Bow Bowing Bunbury Curran Creek Catchment Hydraulic Categories (2011)

Catchment Simulation Solutions was also commissioned by Campbelltown City Council to define procedures that would allow hydraulic categories to be developed and applied to each of the detailed BBBC Creek flood studies (Catchment Simulation Solutions, 2011a). The study was commissioned to ensure that a uniform approach to the definition of hydraulic categories could be consistently applied across all BBBC Creek flood study areas.

Although the NSW Government's *Floodplain Development Manual* (2005) does not provide quantitative criteria for the definition of hydraulic categories, it was felt that quantitative

criteria could be developed for the BBBC Creek catchment due to the relative uniformity of planning controls, development type, stormwater design standards and topography. Accordingly, Campbelltown City Council developed criteria for defining hydraulic categories across the BBBC Creek catchment based on various combinations of floodwater velocity, depth and the land use (i.e., either 'drainage' or 'other/urban').

The results of the investigation determined that the adopted criteria suitably defined hydraulic categories across the BBBC Creek catchment. Given the similarities in catchment characteristics across the BBBC catchment relative to the Southern Catchments, these criteria were considered suitable for use as part of this investigation to define hydraulic categories.

## 3.3 Hydrologic Data

### 3.3.1 Rain Gauge Data

A number of daily read and continuous (i.e., pluviometer) rainfall gauges are located near the study area. A list of rain gauges located within 10 km of the study area is provided in **Table 1**. The location of each gauge is shown in **Figure 3**.

The information provided in **Table 1** indicates that daily rainfall records in the vicinity of the study area are available dating back to the late 1950s/early 1960s. However, continuous rainfall records are only available from 1978 onwards.

## 3.4 Topographic Information

### 3.4.1 2019 LiDAR Survey

LiDAR data was collected across Sydney in February 2019 by the NSW Government's Land and Property Information Department. This included all of the Southern Catchments study area.

A digital elevation model (DEM) was developed from the 2019 LiDAR information and is shown in **Figure 4**.

The LiDAR has a stated absolute horizontal accuracy of better than 0.8 metres and an absolute vertical accuracy of better than 0.3 metres and generally provides between 7 and 8 elevation points per square metre.

To validate the accuracy of the LiDAR, the elevations from the DEM shown in **Figure 4** were compared against twenty-one work-as-executed ground survey points for Rosemeadow Reserve. This comparison showed that the average difference between LiDAR elevations and survey elevations was -0.03 metres with a standard deviation of 0.04 metres. The LiDAR elevations were most commonly lower than the ground survey points, however, the maximum difference was -0.08 metres. This indicates that the LiDAR provides a good description of ground elevations in areas of open space (i.e., likely much better than the stated 0.3 metre accuracy).

However, LiDAR datasets can provide a less reliable representation of the terrain in areas of high vegetation density. This is associated with the laser ground strikes often being

restricted by the vegetation canopy. Errors can also arise if non-ground elevation points (e.g., vegetation canopy, buildings) are not correctly removed from the raw dataset.

Table 1 Available rain gauges in the vicinity of the Campbelltown Southern Catchments study area

| Gauge Number | Gauge Name | Gauge Type | Source* | Start of Records | End of Records | Distance from centroid of study area (km) |
|---|---|---|---|---|---|---|
| 567228 | Tbrg at Syd.Water Res'Voir-Flynn Reserve-Bradbury | Continuous | WNSW | 1983 Apr | 1993 Apr | 0.9 |
| 68081 | Campbelltown Swimming Centre | Daily | BOM | 1959 Sep | 1984 Dec | 1.3 |
| 213006 | Fishers Ghost Ck at Bradbury Park | Continuous | WNSW | 1981 Apr | 2020 | 2.2 |
| 568178 | Rosemeadow Reservoir at Greco Place | Continuous | SW | | | 2.3 |
| 68227 | Ambarvale Clennam Ave | Daily | BOM | 1988 Sep | 2001 Oct | 2.3 |
| 68015 | Campbelltown 2 Mwsdb | Daily | BOM | 1946 Oct | 1970 Dec | 3.1 |
| 68014 | Campbelltown 1 | Daily | BOM | | 1961 Dec | 3.4 |
| 68230 | Campbelltown U.W.South | Daily | BOM | 1992 Feb | 1994 Jun | 3.8 |
| 568179 | Campbelltown Bowling Club | Continuous | SW | | | 3.9 |
| 68231 | Ruse (Denison St) | Daily | BOM | 1992 Apr | | 4.8 |
| 568175 | Kenny Hill (Trunk receiving station) | Continuous | SW | | | 5.3 |
| 68254 | Mount Annan Botanic Garden | Daily | BOM | 2002 Jan | | 5.3 |
| 68220 | Minto (Alderney Street) | Daily | BOM | 1984 Mar | 1996 Jan | 6.6 |
| 68037 | Kenny Hill | Daily | BOM | 1925 Jun | 1970 Dec | 6.7 |
| 568168 | Menangle Meteorological Station | Continuous | SW | | | 6.9 |
| 568168 | Menangle Meteorological Stn. | Continuous | SCA | 1990 July | | 6.9 |
| 68160 | Kentlyn (Georges R Rd) | Continuous | BOM | 1978 Aug | 1988 Jun | 7.3 |
| 68150 | Narellan | Daily | BOM | | 1933 Dec | 7.4 |
| 68216 | Menangle Br (Nepean River) | Operational | BOM | 1999 May | | 7.6 |
| 68043 | Minto Surrey Street | Daily | BOM | | 1990 Jan | 7.8 |
| 68013 | Menangle Jmai | Daily | BOM | | 1998 Jan | 7.9 |
| 68065 | Wedderburn | Daily | BOM | 1930 May | 1971 Dec | 8.0 |
| 68159 | Wedderburn (Booalbyn) | Daily | BOM | 1964 Apr | | 8.0 |
| 568174 | Camden Golf Course | Continuous | SW | | | 9.1 |
| 568156 | Camden Golf Course (Composite) | Continuous | SCA | 1987 Mar | | 9.2 |
| 568072 | Cobbong | Continuous | SCA | 1972 Mar | | 9.4 |
| 568147 | Camden (Camden Park Reservoir) | Continuous | SW | | | 9.8 |

NOTE: * BOM = Bureau of Meteorology, SW = Sydney Water, SCA = Sydney Catchment Authority, WNSW = Water NSW

**Plate 1** provides an example of the LiDAR point density in the vicinity of Woodland Road. **Plate 1** shows a high LiDAR point density across grassed and roadway areas. **Plate 1** also shows no ground points across buildings. Therefore, it appears that non-ground points have correctly been removed from the LiDAR dataset.

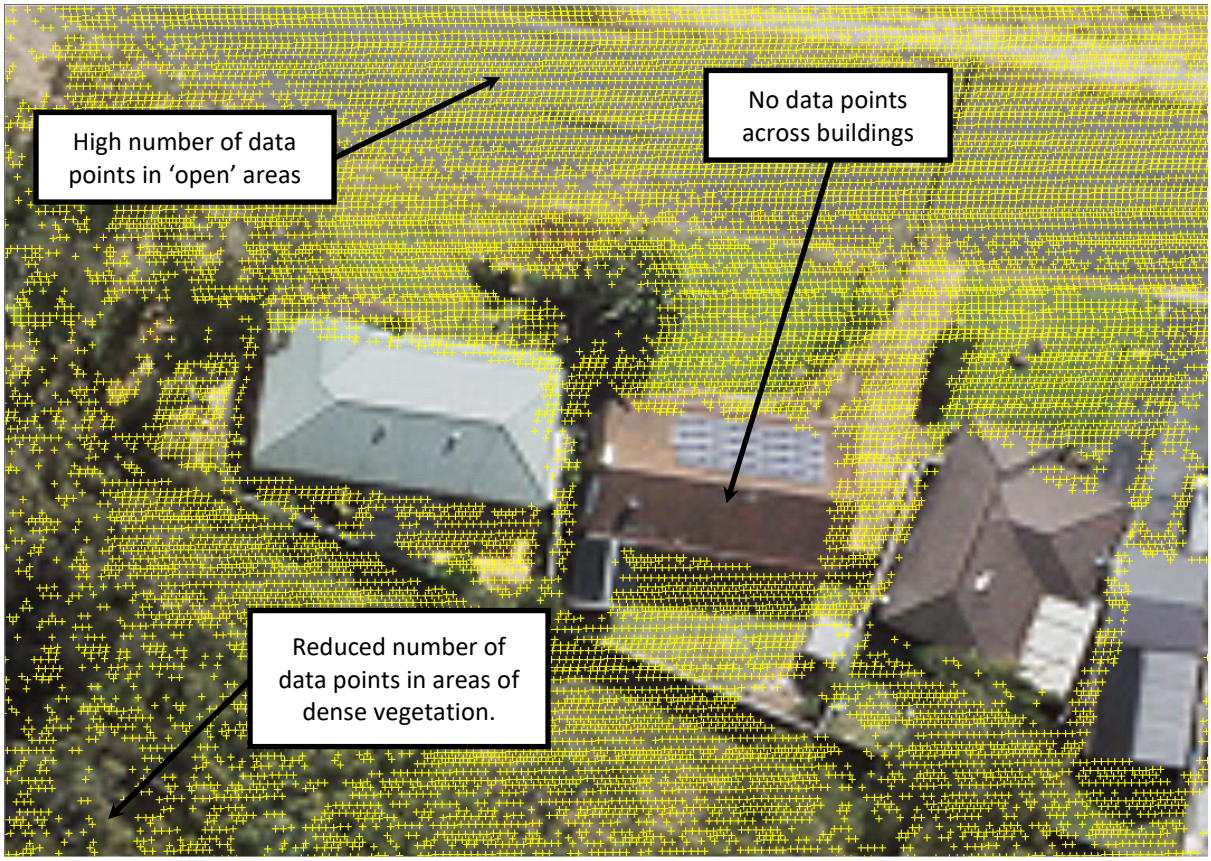



Plate 1 LiDAR data points in the vicinity of Woodland Road

**Plate 1** does show reduced point density in the vicinity of dense vegetation. Therefore, there will be a less detailed representation of the variation in terrain in areas of dense vegetation. However, even in areas of dense vegetation, the distance between ground points is typically no greater than 2 metres indicating that there is likely to be sufficient point density to support a 2 metre grid size Digital Elevation Model (DEM).

To confirm the maximum potential resolution of the DEM, the LiDAR ground point densities were extracted from the raw LiDAR information and this information is included on **Figure 5**. This shows that the point density across areas of open space (e.g., roads, sports fields) is most commonly above 2 ground points per square metre (in some areas, the point density exceeds 10 points per square metre). However, in areas of dense vegetation coverage (e.g., eastern sections of the study area), the point density is generally contained between 1 and 2 ground points per square metre. Therefore, there appears to be sufficient point density to support a minimum DEM resolution of at least 1 metre across the full study area. However, a DEM resolution of 0.5 metres could be supported across areas with minimal vegetation coverage.

It was noted that as the LiDAR was collected in 2019, it does not reflect any changes in terrain that have occurred since 2019. Although there have been no large-scale topographic

changes within the study area since 2019, there have been localised changes in terrain that do have the potential to impact on flooding. This includes the Rosemeadow Sports Complex building which adjoins an existing channel/detention area. Fortunately, work-as-executed survey was captured of this new building and adjoining topographic modifications and could be used to update the terrain representation in this area. Further details of this survey information is provided in Section 3.6.

## 3.5 Geographic Information System (GIS) Data

A number of Geographic Information System (GIS) layers were also provided by Campbelltown City Council to assist with the study. This included:

- Aerial Photography
- Easements
- Cadastre
- Roads
- Building Polygons
- Local Environmental Plan
- Stormwater pits
- Stormwater pipes

The majority of the above layers served as a basis for preparing the various figures displaying the study results (most notably the aerial photography and cadastre). In this regard, the layers are considered fit for purpose.

However, the stormwater, culverts and building footprint layers served as key inputs in the development of the hydraulic model for the study. As a result, these layers were reviewed in detail and the outcome of this review is provided below.

### 3.5.1 Stormwater

The extent of the stormwater GIS layers are shown in **Figure 2**. A review of these GIS layers determined that there are 2,441 pipes and 2,419 pits located within the study area.

The GIS layers provide a range of attributes for each pit and pipe including pit types, dimensions, invert depths, lintel lengths and pipe sizes. The information contained within this layer can be used in conjunction with the stormwater inlet capacity curves (refer Section 3.2.3) to describe the conveyance capacity of the sub-surface stormwater pipe system.

However, a review of the GIS layer indicated that:

- the position of the stormwater pits was not consistent with those visible on available aerial photography (refer **Plate 2**). Accordingly, the positions of some stormwater pits were modified based upon 2021 aerial photography to ensure they were correctly located.
- Some pits and pipes were disconnected (refer **Plate 3**). Therefore, the pipes were manually “snapped” to the adjoining pit.
- Some pipes were digitised in the wrong direction (the hydraulic model requires pipes to be digitised from upstream to downstream) (refer **Plate 4**).



Plate 2 Example of incorrect spatial positioning of stormwater pit



Plate 3 Example of disconnected stormwater pit and pipe



Plate 4 Example of incorrect pipe direction

- Some pit and pipe inverts did not align. In such cases, the pit and pipe depths were reviewed in the field and the updated depths were used to recalculate the invert elevations based on the LiDAR DEM.
- Some pipes were determined to have an adverse pipe slope. Where the adverse slope was minimal (i.e., <0.2%), the slopes were retained. Where slopes exceeded 0.2%, further field verification of the pipe depths was completed.
- A significant number of pits did not have a pit type description to assist in defining inflow capacity. Therefore, other attributes contained within the GIS layer were used to determine the pit type:
  - Any pit with a lintel length attribute > 0 was assigned as a kerb inlet with the appropriate lintel length.
  - Any pit with a "Pit_Length" attribute of 0 was assigned as a junction pit.
  - Any pit with a "Pit_Length"> 0 was assigned as a grated inlet with grate size informed by pit length and width attributes.

### 3.5.2 Culverts

Council's culvert and Bridges GIS layers identify the location of most culverts in the study area, as shown in **Figure 2**. However, they do not incorporate all the information that is needed to represent the structures in the hydraulic model. However, as noted in Section 3.2.2, dimensions for all major culverts within the study area were collected as part of previous model development work. When combined with engineering plans, survey information and LiDAR, it provided sufficient information to allow each culvert in **Figure 2** to be represented in the hydraulic model.

It was noted that one culvert at the entrance of Rosemeadow Public School was not included in the culverts layer and details of this structure were collected by Council.

### 3.5.3 Buildings

Buildings provide one of the most significant flow impediments in an urban catchment. Therefore, they form a critical input into the hydraulic flood model. Council's building polygons were reviewed against the 2021 aerial imagery to confirm if they provide a reliable representation of contemporary buildings within the study area (the buildings layer is included in **Figure 2**).

This review determined that the GIS layer provided a good representation of buildings across most of the study area. However, some modifications to the buildings layer were necessary based on the following review outcomes:

- The spatial positioning of some buildings was found to not reflect the aerial imagery. Therefore, some polygons were "shifted" (refer **Plate 5**).
- Some newer buildings were not captured in the layer. Therefore, additional polygons were digitised by hand based on the aerial imagery (refer **Plate 6**).
- Some smaller buildings (e.g., garages, sheds, granny flats) were not included in the layer and needed to be digitised (refer **Plate 7**).



Plate 5 Example of building polygons being "shifted" relative to aerial imagery (original buildings shown in black and updated buildings in yellow)



Plate 6 Example of “missing” building polygons (original buildings shown in black and updated buildings in yellow)



Plate 7 Example of “missing” granny flats, sheds and garages (original buildings shown in black and updated buildings in yellow)

## 3.6 Engineering Plans

Campbelltown City Council provided design and work-as-executed plans for several locations within the study area. The area covered by each plan set is shown in **Figure 2** and include:

- Cleopatra Reserve: provides details of seven detention basins located between Crisparkle Drive/Demetrius Road and Tomas Acres Reserve at Rosemeadow. This includes basin outlet details and basin crest elevations.
- Oswald Reserve: Provides work-as executed survey for the Oswald Reserve detention basin and associated pipe and pit system (including drainage calculations). The area covered by the plans are shown in **Figure 2**.
- Rosemeadow Sports Complex: Provide work-as-executed survey of the Rosemeadow Sports Complex building and adjoining works that were completed in June 2021. This includes details of the channel, detention basin wall and culvert located immediately south of the main building. The area covered by the plans are shown in **Figure 2**.
- Haydon Reserve: Provides work-as-executed plans of a subdivision bound by Desdemona Street and Valentine Place at Rosemeadow. This includes details of the local pit and pipe system as well as the Haydon Reserve detention basin located downstream of the subdivision. The area covered by the plans are shown in **Figure 2**.
- Thomas Acres Reserve: Provides work-as-executed survey of the Tomas Acres Reserve detention basin. Only ground surface elevations are provided (i.e., the plans do not include details of the drainage system). The area covered by the plans are shown in **Figure 2**.

## 3.7 Community Consultation

Campbelltown City Council established an online community questionnaire in an effort to collect information from the community regarding past flooding experiences. The questionnaire was advertised via Council's social media and commenced on 30 July 2021 and finished on 27 August 2021. During this period, 30 people visited the page. However, no one completed a questionnaire.

# 4 Computer Flood Models

## 4.1 General

Computer models are the most common method of simulating flood behaviour through a particular area of interest. They can be used to predict flood characteristics such as peak discharges, flood level and flow velocity for a range of floods.

Two computer models were developed to simulate flood behaviour across the study area:

- An XP-RAFTS hydrologic model was developed to simulate the transformation of rainfall into runoff across the catchment; and,
- A TUFLOW hydraulic model was developed to simulate how the runoff would be distributed/move across the study area.

The following sections describe the model development process.

## 4.2 XP-RAFTS Model Development

### 4.2.1 Subcatchment Delineation

Each of the catchments draining through the study area were subdivided into a number of smaller subcatchments to provide a detailed description of the spatial variation in hydrologic characteristics across the study area. The subcatchments were delineated with the assistance of the CatchmentSIM software (Catchment Simulation Solutions, 2018) using a 2 metre Digital Elevation Model (DEM) that was developed based on the LiDAR datasets described in Section 3.4.1.

A major goal of the study was to define overland flood behaviour. Therefore, it was necessary for the subcatchment delineation to be sufficiently detailed to ensure all potential overland flow paths were identified. Based on experience in similar overland flood studies in the Sydney metropolitan area, significant overland water depths (i.e., >0.1m) are frequently encountered once the contributing catchment area reaches about 2 hectares. Therefore, the subcatchment delineation targeted incorporating subcatchment outlets once the contributing catchment area reached approximately 1-2 hectares to ensure all potential overland flow paths were captured.

A total of 673 subcatchments were ultimately delineated across the study area. The final subcatchment layout is presented in **Figure 6**.

### 4.2.2 Subcatchment Parameterisation

The study area comprises a mix of urbanised areas along with some significant areas of open space. The mix of pervious and impervious surfaces will typically result in a significant difference in hydrologic response across most subcatchments, viz:

- rapid rainfall response and low infiltration potential for impervious areas; and,

- slower rainfall response and high infiltration potential for pervious areas.

In recognition of the differing characteristics of the two hydrologic systems, each XP-RAFTS subcatchment was subdivided into two sub-areas. The first sub-area was used to represent the pervious sections of the subcatchment and the second sub-area was used to represent the impervious sections of the subcatchment. The division of each subcatchment into pervious and impervious sub-areas allows different loss rates and roughness coefficients to be specified, thereby providing a more realistic representation of rainfall-runoff processes from the two different hydrologic systems.

Key hydrologic properties including area and average slope were calculated automatically for each subcatchment using CatchmentSIM. Estimates of impervious proportions within each subcatchment were based on Council's Local Environmental Plan (LEP) GIS layer. This was supplemented with additional land use polygons where the imperviousness varied significantly from the underlying land use zone. This included roads, concreted areas, and car parks. Each of these additional land uses were digitised by hand based upon 2021 aerial imagery. The adopted impervious proportions that were applied to each land use are summarised in **Table 1**.

Table 2 Adopted Impervious Percentage for Hydrologic Model

| Zone | Description | Impervious Proportion (%) |
|---|---|---|
| B1 | Neighbourhood Centre | 90 |
| E3 | Environmental Management | 5 |
| E4 | Environmental Living | 60 |
| R2 | Low Density Residential | 80 |
| RE1 | Public Recreation | 10 |
| RE2 | Private Recreation | 15 |
| RU2 | Rural Landscape | 5 |
| SP2 | Infrastructure (non drainage) | 90 |
| | Infrastructure (drainage) | 50 |
| Roads | - | 90 |
| Concrete | - | 100 |
| Car Parks | - | 100 |

A pervious roughness value of 0.030 was adopted for pervious sub-areas of each subcatchment and a roughness value of 0.015 was adopted for impervious sub-areas of each subcatchment.

The final adopted subcatchment parameters for existing conditions are provided in **Appendix C**.

### 4.2.3 Stream Routing

The sub-catchment area, roughness, slope and percentage impervious parameters that are input into the XP-RAFTS model are used by the model to estimate the transformation of rainfall excess into runoff for each subcatchment. In addition to local subcatchment runoff, most sub-catchments will also carry flow from upstream catchments along the main watercourses. The flow along the watercourses in XP-RAFTS is represented using a "link" between successive sub-catchment "nodes". The location of subcatchment nodes and links is provided in **Figure 6**.

For this study, time delay lag routing was employed to represent the routing of runoff along the main watercourses and overland flow paths into downstream subcatchments. The time delay value for each flow path was calculated using the Bransby-Willams formula.

### 4.2.4 Rainfall Loss Model

During a typical rainfall event, not all of the rain falling on a catchment is converted to runoff. Some of the rainfall may be intercepted and stored by vegetation, some may be stored in small depressions and some may infiltrate into the underlying soils.

To account for rainfall "losses" of this nature, the hydrologic model incorporates a rainfall loss model. For this study, the "Initial-Continuing" loss model was adopted, which is recommended in 'Australian Rainfall & Runoff' (Geoscience Australia, 2019). This loss model assumes that a specified amount of rainfall is lost during the initial saturation/wetting of the catchment (referred to as the 'Initial Loss'). Further losses are applied at a constant rate to simulate infiltration/interception once the catchment is saturated (referred to as the 'Continuing Loss Rate'). The initial and continuing losses are deducted from the total rainfall over the catchment, leaving the residual rainfall to be distributed across the catchment as runoff.

It is noted that the floods across New South Wales (including the Sydney area) in 2022 have illustrated the potential for floods in relatively quick succession. This has shown that catchments may be "saturated" from a previous flood and have little capacity for additional rainfall losses during subsequent rainfall events. Although the rainfall loss approach adopted as part of the current study reflects current best practice, the recent floods may necessitate a review of design rainfall losses. If this is the case, the current study will need to be revisited to ensure it continues to provide the best possible description of the flood risk across the study area.

### 4.2.5 Detention Basins

The Campbelltown southern catchments study area includes several detention basins. The basins are designed to attenuate downstream flows from the local catchment by temporarily storing runoff. Due to the potential for the basins to impact on downstream flows, they were represented in the XP-RAFTS model.

The representation of flood storage/detention basins in XP-RAFTS requires the storage and discharge (i.e., outflow) characteristics of the basin to be defined. This information was developed as follows:

- Stage-storage relationships were developed for each basin from the 2019 LiDAR information.

- Stage-discharge relationships were developed using preliminary TUFLOW model simulation results (the TUFLOW model is discussed further in Section 4.3). This enabled a stage - discharge relationship to be developed for each basin that took account of basin inflows, storage characteristics and tailwater conditions in the downstream watercourses/basins.

Most detention basins within the study area do not contain a permanent water surface and were assumed to be "empty" at the start of each flood simulation. For the Mandurama Reserve water body, it was assumed that the water level was at the same elevation as the main outlet pipe (i.e., this water feature was "full" at the start of each flood simulation).

The location of each basin included in the XP-RAFTS model is shown in **Figure 6**.

## 4.3 TUFLOW Model Development

### 4.3.1 Model Extent

A 2-dimensional hydraulic computer model of the study area was developed using the TUFLOW Highly Parallelised Computer (HPC) software (version 2020-10-AB). TUFLOW is a fully dynamic, 1D/2D finite difference model developed by BMT WBM (2012). It was selected for the project as it provides the following advantages:

- The software was developed through collaborative efforts with universities and research organisations to ensure it is scientifically of a high standard and is thoroughly benchmarked (BMT, 2020).
- The software is used extensively across Australia and overseas to simulate flood behaviour and, therefore, has a strong pedigree of proven performance in similar studies.
- The HPC version of the software takes advantage of the additional processing power of graphics cards to provide expedited simulation times. This allows the model simulations to be completed within short time frames relative to previous versions of the software
- It is fully dynamic. That is, it simulates the time variation in flood hydraulics along the river and across the floodplain. This is particularly important for evaluation of time-related flood behaviour with implications for emergency management, such as the amount of time before evacuation routes are cut and how long they would remain submerged.

The extent of the TUFLOW model area is shown in **Figure 7**. As shown in **Figure 7**, the TUFLOW model extends across the full extent of the study area extending downstream to the edge of the Georges River.

### 4.3.2 Grid Size

The TUFLOW software uses a grid to define the spatial variation in topography and hydraulic properties (e.g., roughness coefficients) across the model area. Accordingly, the choice of grid size can have a significant impact on the performance of the model. In general, a smaller grid size will provide a more detailed and reliable representation of flood behaviour relative to a larger grid size. However, a smaller grid size will take longer to perform all of the necessary hydraulic calculations. Therefore, it is typically necessary to select a grid size

that makes an appropriate compromise between the level of detail provided by the model and the associated computational time required. A grid size of 2 metres was ultimately adopted and was considered to provide a reasonable compromise between reliability and simulation time.

In addition, a new TUFLOW feature called sub-grid sampling (SGS) was employed as part of the model setup. When SGS is employed, TUFLOW will calculate water level versus storage volume relationships based on a more detailed underlying terrain representation rather than relying on a single elevation at the centre of the grid cell (as was used for the BBBC Creek flood studies). Similarly, TUFLOW will calculate water level versus discharge relationships across each cell side based on the more detailed terrain rather than relying on the elevation at the midpoint of each cell to control when water moves from one cell to the next. This feature allows storage and conveyance to be represented in more detail than would have otherwise been allowed. Based on the LiDAR point density information presented in Section 3.4.1, a 0.5 metre SGS interval was selected for the TUFLOW model to derive the storage and conveyance properties within each TUFLOW model cell. The SGS information was populated based on the DEM developed from the LiDAR information described in Section 3.4.1.

### 4.3.3 Hydraulic Roughness Values

The TUFLOW software employs material polygons to define the variation in hydraulic roughness across a particular study area. The LEP GIS layers were used as a starting point for assigning material polygons to the model area. This was supplemented with hand delineation of additional material types based on 2020 aerial imagery.

Different roughness coefficient values were assigned to each material type to define the resistance to flow afforded by the different material types. The adopted material types and the corresponding roughness values are provided in **Table 2** and are consistent with the values adopted as part of the BBBC Creek flood studies.

Table 3 TUFLOW Roughness Coefficients

| Material Description | Roughness Coefficient |
|---|---|
| **Open space (i.e., grass)** | 0.030 |
| **Buildings** | 1.000 |
| **Grass with sparse tree coverage** | 0.060 |
| **Grass with dense tree coverage** | 0.080 |
| **Industrial/commercial area** | 0.025 |
| **Car Park** (with parked cars)<br>Depth < 0.3m - water in contact with vehicle tyres only,<br>Depth > 0.3m - water in contact with vehicle bodies | <br>Depth ≤ 0.3m = 0.100<br>Depth > 0.3m = 1.000 |
| **Roadway reserve (asphalt with grassed nature strip)** | 0.022 |
| **Concrete** | 0.015 |
| **Creek channel with vegetation lining banks** | 0.050 |
| **Rocks/rip-rap** | 0.040 |

### 4.3.4 Culverts

Culverts can have a significant influence on flood behaviour. Therefore, all culverts within the study area were represented within the TUFLOW model as 1D hydraulic structures. The location of culverts that were included within the TUFLOW model is shown in **Figure 7**.

For culverts, the physical dimensions and invert elevations of the structures were included directly in the TUFLOW model (this was informed from the plans documented in Section 3.6 as well as Council asset information). Entry and exit loss coefficients were defined based on default values provided in the TUFLOW Manual (BMT WBM, 2012). Typically, an entry loss coefficient of 0.5 and an exit loss coefficient 1.0 was adopted for all culverts.

#### *Blockage*

As shown in **Plate 8**, during a typical flood, sediment, vegetation and urban debris (e.g., litter) from the catchment can become mobilised leading to blockage of downstream culverts. Consequently, culverts will not operate at full efficiency during most floods. This can increase the severity of flooding across areas located adjacent to these structures. In recognition of the potential for blockage to occur during a flood, blockage factors were applied to culverts.



Plate 8 Example of blockage of culvert following a rainfall event

Each BBBC Creek Flood Study applied blockage to each culvert in accordance with Council's *'Engineering Design for Development'* (2014). This involved application of a blockage factor of 50% to all culverts with a diagonal dimensions less than 3 metres. Larger culverts were not assigned a blockage factor.

It was recognised that updated blockage guidance was released as part of 'Australian Rainfall and Runoff – A Guide to Flood Estimation' (Ball et al, 2019) (ARR2019). Therefore, a review of the previously adopted blockage factors was completed relative to this more contemporary guidance to confirm the most suitable blockage factors to apply to the TUFLOW model.

One of the key differences between the previously adopted blockage factors and the ARR2019 guidance is that the revised blockage factors not only depend on the size of the culvert, but also on a range of additional factors including:

- the size of the debris that is likely to be mobilised from the upstream catchment
- the availability, mobility, and transportability of the debris
- the severity of the flood (i.e., higher blockage factors are assigned during larger floods and lower blockage factors adopted during smaller floods)

Therefore, ARR2019 blockage calculations were completed for structure sizes less than and greater than 3 metres (the threshold size that triggers different Council blockage factors) and for differing design floods, debris sizes and debris availability, mobility, and transportability. The outcomes of this assessment are summarised in **Table 4** and **Table 5**. Council's blockage factors are also included for comparison.

When reviewing the blockage factors, the debris size most likely to be encountered in the study area will be in the 1 metre to 2.99 metre range (e.g., fence palings, wheely bins, tree branches). This debris range is highlighted in each table. In addition, the study area is likely to be considered closer to a low availability, mobility, and transportability catchment (i.e., **Table 4**) rather than a high availability, mobility, and transportability catchment (i.e., **Table 5**).

Table 4 Blockage factors based upon low debris availability, mobility, and transportability

| Debris Size (m) | Blockage (structure ≤ 3m) | | | | Blockage (structure > 3m) | | | |
|---|---|---|---|---|---|---|---|---|
| | ARR2019 | | | Council | ARR2019 | | | Council |
| | AEP>5% | 5% - 0.5% AEP | AEP < 0.5% | | AEP>5% | 5% - 0.5% AEP | AEP < 0.5% | |
| 0.01 - 0.99 | 0% | 0% | 0% | 50% | 0% | 0% | 0% | 0% |
| 1.00 - 2.99 | 0% | 0% | 10% | 50% | 0% | 0% | 0% | 0% |
| 3.00 - 5.99 | 25% | 25% | 50% | 50% | 0% | 0% | 10% | 0% |
| > 6.00 | 25% | 25% | 50% | 50% | 25% | 25% | 50% | 0% |

Table 5 Blockage factors based upon high debris availability, mobility, and transportability

| Debris Size (m) | Blockage (structure ≤ 3m) | | | | Blockage (structure > 3m) | | | |
|---|---|---|---|---|---|---|---|---|
| | ARR2019 | | | Council | ARR2019 | | | Council |
| | AEP>5% | 5% - 0.5% AEP | AEP < 0.5% | | AEP>5% | 5% - 0.5% AEP | AEP < 0.5% | |
| 0.01 - 0.99 | 0% | 10% | 10% | 50% | 0% | 10% | 10% | 0% |
| 1.00 - 2.99 | 10% | 20% | 20% | 50% | 0% | 10% | 10% | 0% |
| 3.00 - 5.99 | 50% | 100% | 100% | 50% | 10% | 20% | 20% | 0% |
| > 6.00 | 50% | 100% | 100% | 50% | 50% | 100% | 100% | 0% |

The blockage factors in **Table 4** and **Table 5** show that:

- Council's blockage factors are likely to provide higher/more conservative blockage factors for culverts with a diagonal dimension less than 3 metres across most debris sizes and debris available, mobility, and transportability.
- Council's blockage factors are likely to afford similar blockage factors for culverts with a diagonal dimension greater than 3 metres across most debris sizes with low debris available, mobility, and transportability (the most likely circumstance for the study area).

Overall, Campbelltown City Council's blockage factors are either similar to or higher than the equivalent ARR2019 blockage factors for the catchment conditions most likely to be encountered across the southern catchments study area. Near smaller culverts, the Council blockage factors are likely to provide more conservative (i.e., higher) flood levels upstream of the structures and lower flood levels downstream of the structures.

Overall, it was considered that adoption of Council's blockage factors would be preferential as they provide comparable, if slightly conservative, blockage factors and would ensure consistency with the blockage factors adopted as part of the BBBC Creek flood studies. Furthermore, the Council blockage factors provide a better reflection of observed blockage (refer **Plate 8**) and arguably provide a better reflection of increased blockage potential associated with intense, localised rainfall events that may provide the equivalent of a higher AEP event in localised areas.

### 4.3.5 Stormwater System

The stormwater system has the potential to convey a significant proportion of runoff across the urbanised sections of the study area during more frequent rainfall events. Therefore, it was considered important to incorporate the stormwater system in the TUFLOW model to ensure the interaction between piped stormwater and overland flows was reliably represented.

All Council-owned stormwater assets contained within the study area was included within the TUFLOW model as a dynamically linked 1D network. This allowed representation of the conveyance of flows by the stormwater system below ground as well as simulation of overland flows in two dimensions once the capacity of the stormwater system is exceeded.

The extent of the stormwater system included within the TUFLOW model is shown in **Figure 7**. It should be noted that no private stormwater infrastructure was included in the model. Therefore, the extent and depth of inundation across some properties (e.g., large commercial or industrial properties with a significant local stormwater system), may be overstated.

The properties of the stormwater system (e.g., pit types/sizes, pipe lengths/diameters) were defined using information contained in Council's stormwater asset database as well engineering plans and field measurements collected by Council. The details of some stormwater information were also assigned based upon interpretation of other stormwater properties where data could not be extracted directly (as discussed in Section 3.5.1).

The capacity of the stormwater system is dependent not only on the characteristics of the individual stormwater pipes, but also the various stormwater pits/inlets that capture surface runoff and distribute this runoff to the pipe system. To account for the varying capacity of the different stormwater inlet types across the study area, the pit inlet database developed as part of the *'BBBC Creek Catchment Detailed Flood Studies Pit Inlet Database'* (Catchment Simulation Solutions, 2011b) was utilised and applied to all pits within the study areas. The database describes the inlet capacities of approximately ninety different pit types located throughout the study area as a water depth versus inlet capacity relationship.

Hydraulic "losses" throughout the stormwater system were estimated using the Engelhund loss approach (BMT WBM, 2015). This loss approach automatically accounts for the following loss components at each stormwater pit for each model time step:

- Pit entrance loss;
- Loss associated with a drop in elevation between inlet and outlet pipes;
- Loss associated with a change in flow direction between the inlet and output pipes; and,
- Pit exit loss.

### *Blockage*

Like culverts, stormwater inlets may become blocked by debris during the course of a flood (refer to **Plate 9**). Accordingly, blockage factors were also assigned to all stormwater pits as part of the flood simulations to reflect the reduced inflow capacity that would occur with partial pit blockage.



Plate 9 Example of blockage of stormwater pit at Oswald Reserve, St Helens Park

A 50% blockage factor was also applied to all sag stormwater inlets and 20% blockage was applied to on-grade stormwater inlets in accordance with Council's '*Engineering Design for Development'* (2014).

The impact of no blockage as well as complete blockage of stormwater pits was assessed as part of the model sensitivity analysis.

### 4.3.6 Fences

Fences can provide a significant impediment to overland flow in urbanised catchments. Therefore, it was also considered important to include a representation of fences within the TUFLOW model. An automated approach that was developed as part of the BBBC Creek Flood Studies was employed to extract approximate fence alignments across the entire study area based on available information contained in Council's GIS. An extract of the fence lines that were generated based on this approach are shown in **Plate 5**.



Plate 10 Example of fences (yellow lines) extracted using cadastre, zoning, and roadway GIS layers.

Unfortunately, there is little information available describing the blockage afforded by different fences. The Australian Rainfall & Runoff 'Project 11: Blockage of Hydraulic Structures' (Engineers Australia, 2013) suggests that blockage factors of between 50% and 100% would typically be appropriate for fences located in overland flow paths. Based upon this information, a blockage factor in the centre of this range was adopted for all fence types (i.e., 75%).

Although it could be argued that this blockage factor would be too high for permeable fencing such as wire mesh type fencing, it was recognised that even permeable fence types can become partially blocked during a flood. For example, during the early stages of a flood, debris (e.g., leaves, branches) can be mobilised and conveyed down overland flow paths

until it reaches an obstruction whose aperture is too small to transmit the debris (i.e., gaps in fencing). Therefore, by the peak of the flood there is a significant probability that most fences will be at least partially blocked with debris.

Although the height of each fence across the study area varies, available information suggests that most fence types will fail once the water depth and associated debris height exceeds 0.5 metres. Therefore, the 75% blockage factor was applied for fences subject to water depths up to 0.5 metres. Any water exceeding a water depth of 0.5 metres was assumed to "overtop" the fence and no blockage was applied. The 0.5 metre fence height was considered to provide a reasonable estimate of the degree of blockage that can be provided by an average fence without failing.

### 4.3.7 Detention Basins and Water Storages

As discussed in Section 4.2.5, the study area incorporates a number of formal detention basins and water features that may attenuate downstream flows during rainfall events. Therefore, a representation of each storage was included in the TUFLOW model.

The absence of any water level monitoring gauges within each basin or water feature means that the normal operating water level (or range of operating water levels) of each storage is not known. In the absence of any water level information, it was assumed that all "wet" water storages (e.g., Mandurama Reserve) were full at the start of each simulated flood. No water was included within "dry" detention basins.

## 4.4 Model Validation

Hydraulic computer models typically require the adoption of inputs that are not always known with a high degree of certainty, such as blockage of hydraulic structures and hydraulic roughness values. Therefore, hydraulic models are typically calibrated based upon historic flood information to ensure they are producing reliable estimates of flood behaviour. Unfortunately, no rain or stream gauges are located within the study area. In addition, no historic flood mark information was available within the study area. Accordingly, there is insufficient historic information available to calibrate the hydraulic model.

Therefore, in the absence of historic flood information, the XP-RAFTS and TUFLOW model results were validated against results documented in other flooding investigations. The outcomes of the validation are summarised below.

### 4.4.1 Hydrologic Model

The XP-RAFTS hydrologic model developed as part of the current study was used to simulate a preliminary 1% AEP storm to assist with validating the results produced by the XP-RAFTS model. This was completed based upon guidance provided in 'Australian Rainfall and Runoff – A Guide to Flood Estimation' (Engineers Australia, 1987) (ARR1987). Although ARR1987 has since been superseded by a more recent release of Australian Rainfall & Runoff (i.e., ARR2019), ARR1987 was adopted as part of the validation simulations to ensure consistency with the previous flooding investigations that were used for validation purposes. Peak 1% AEP discharges for each subcatchment that were produced as part of these simulations are provided in **Appendix D**.

The XP-RAFTS model results were first validated by preparing unit flow estimates for each subcatchment (i.e., dividing the peak 1% AEP discharge by the contributing catchment area). This was compared against unit flows for four subcatchments contained within the BBBC Creek catchment that share similar hydrologic characteristics as the southern catchments. The goal of this assessment was to confirm that the XP-RAFTS model developed as part of the current study was generating comparable runoff per unit area to other XP-RAFTS models with similar catchment characteristics within the Campbelltown LGA.

The outcome of this comparison is provided in **Table 6**. As shown in **Table 6**, the average unit flow is provided along with 10$^{th}$ and 90$^{th}$ percentile unit flow values so an understanding of the spread of unit flow values can also be obtained.

Table 6 1% AEP unit flow comparison (ARR1987)

| Catchment | Area (km$^2$) | Average Impervious | Unit Flow (m$^3$/s per ha) | | |
|---|---|---|---|---|---|
| | | | 10$^{th}$ Percentile | Average | 90$^{th}$ Percentile |
| Campbelltown Southern Catchments | 10.2 | 61% | 0.41 | 0.48 | 0.53 |
| Claymore | 4.0 | 66% | 0.38 | 0.46 | 0.52 |
| Birunji Creek | 3.1 | 75% | 0.37 | 0.44 | 0.53 |
| Thompsons Creek | 5.6 | 53% | 0.23 | 0.47 | 0.52 |
| Upper Bunbury Curran Creek | 18.4 | 28% | 0.26 | 0.48 | 0.53 |

The information in **Table 6** shows that the newly developed XP-RAFTS model provided an average unit flow and 90$^{th}$ percentile unit flow that is comparable to each of the other XP-RAFTS model. **Table 6** also shows that the new XP-RAFTS model does provide a slightly higher 10$^{th}$ percentile unit flow although this value shows the most variability across each catchment. Furthermore, the 10$^{th}$ percentile unit flow value generated by the new XP-RAFTS model is similar to the Claymore and Birunji Creek models which provides the most comparable catchment characteristics indicating that the unit flow estimates are reasonable.

The peak 1% AEP discharges produced by the new XP-RAFTS model were also compared against 1% AEP discharges produced by the Spring Creek TUFLOW model (refer Section 3.2.2) at several locations. Although it is acknowledged that the Spring Creek model was not developed with the same rigour as a typical government-funded flood study, it is useful to understand whether the XP-RAFTS model developed for the current study is producing reasonable and comprable peak discharge estimates. This comparison is provided in **Table 7**.

It was noted that the XP-RAFTS model developed for the current study incorporates no allowance for blockage of culverts (including detention basin outlets) so some of the results were not directly comparable to the Spring Creek TUFLOW model which incorporated blockage allowances (blockage would generally serve to attenuate flow). Therefore, the 1% AEP flows produced by the XP-RAFTS model were applied to the TUFLOW model also developed as part of the current study (which includes blockage allowances) and the

TUFLOW model was used to route the XP-RAFTS flows across the study area. Peak flows extracted from the TUFLOW model developed for the current study are also provided in **Table 7**.

Table 7 1% AEP peak flow comparison (ARR1987)

| Location | XP-RAFTS Model Subcatchment | Peak 1% AEP Discharge ($m^3/s$) | | |
|---|---|---|---|---|
| | | Spring Creek TUFLOW Model | Current Study | |
| | | | XP-RAFTS | TUFLOW |
| Orlick St, Rosemeadow | 83.01 | 1.00 | 1.18 | 1.05 |
| Thomas Acres Reserve, Rosemeadow | 44.16 | 4.42 | 6.90 | 4.56 |
| Copperfield Dr, Rosemeadow | 44.17 | 5.65 | 7.37 | 5.64 |
| Anthony Drive, Rosemeadow | 1.11 | 9.06 | 15.1 | 10.0 |
| Thomas Rose Drive, St Helens Park | 1.15 | 16.1 | 25.6 | 16.9 |
| Rosemeadow Basin 1 southern inlet | 1.16 | 19.8 | 29.3 | 20.9 |
| Rosemeadow Basin 2 outlet | 1.19 | 22.3 | 28.4 | 23.1 |
| Pinaroo Cres, Bradbury | 102.02 | 1.93 | 3.26 | 2.21 |
| Upstream of St Helens Park Dr, St Helens Park | 1.22 | 22.8 | 23.3 | 23.3 |
| St Helens Park Dr (near Holman Pl), St Helens Park | 116.01 | 5.73 | 8.67 | 5.55 |
| Downstream of St Helens Park Dr, St Helens Park | 1.24 | 31.0 | 35.0 | 33.8 |

The results in **Table 7** show that the "raw" XP-RAFTS model flows are generally higher than the Spring Creek flows. However, after the XP-RAFTS flows are routed through the TUFLOW model, the flows are more comparable. More specifically, the combination of the newly developed XP-RAFTS model and TUFLOW model produced peak discharges that are within 10% of the Spring Creek TUFLOW model discharges. **Table 7** also shows that the flow estimates generated for the current TUFLOW model are generally slightly higher than the Spring Creek model. This is most likely associated with the Spring Creek model incorporating a representation of additional storage within the catchment (e.g., localised depressions, water getting trapped behind flow obstructions such as buildings). However, the new flow estimates are considered to be realistic and comparable to the Spring Creek TUFLOW model. When these results are combined with the unit flow comparisons, it indicates that the discharge estimates generated by the new hydrologic and hydraulic models are comparable with other nearby studies.

### 4.4.2 Hydraulic Model

As outlined in the previous section, the newly developed TUFLOW model was used to simulate flood behaviour for the 1% AEP event based upon ARR1987. The simulated water depths and velocity vectors were extracted from this simulation and are provided in **Figure 8**.

The peak 1% AEP water levels produced by the TUFLOW model were also validated against peak 1% AEP flood levels produced by the Spring Creek TUFLOW model (refer Section 3.2.2).

This comparison is provided in **Table 8** for a number of locations spread across Ambarvale, Bradbury, Rosemeadow and St Helens Park.

Table 8 1% AEP peak flood level comparison (ARR1987)

| Location | Peak 1% AEP Level (mAHD) | | Difference (m) |
|---|---|---|---|
| | Spring Creek TUFLOW Model | Current Study TUFLOW Model | |
| Orlick St, Ambarvale | 130.35 | 130.38 | 0.03 |
| Haredale St, Ambarvale | 142.83 | 142.90 | 0.07 |
| Pinaroo Cres, Bradbury | 120.23 | 120.23 | -0.01 |
| Demetrius Rd, Rosemeadow | 140.81 | 140.71 | -0.10 |
| Hayden Park, Rosemeadow | 138.33 | 138.17 | -0.16 |
| Cleopatra Reserve, Rosemeadow | 131.60 | 131.41 | -0.19 |
| Malvolio St, Rosemeadow | 147.92 | 148.06 | 0.14 |
| Copperfield Dr @ Fitzgibbon Ln, Rosemeadow | 129.75 | 129.77 | 0.02 |
| Thomas Rose Dr, Rosemeadow | 127.63 | 127.69 | 0.06 |
| Thomas Acres Reserve, Rosemeadow | 125.64 | 125.47 | -0.17 |
| Copperfield Dr @ Cleopatra Dr, Rosemeadow | 124.14 | 124.28 | 0.14 |
| Rosemeadow Basin 1, Rosemeadow | 122.80 | 122.79 | -0.01 |
| Rosemeadow Basin 2, Rosemeadow | 120.42 | 120.51 | 0.09 |
| St Helens Park Drive (South), St Helens Park | 126.19 | 126.23 | 0.04 |
| Kellerman Dr, St Helens Park | 135.49 | 135.58 | 0.09 |
| Ironside Ave, St Helens Park | 118.36 | 118.52 | 0.16 |
| St Helens Park Dr (North) St Helens Park | 117.21 | 117.14 | -0.07 |

The results in **Table 8** show that the TUFLOW model developed for the current study produced peak 1% AEP flood levels that are within ±0.2 metres of the Spring Creek TUFLOW model with most flood levels agreeing to better than ±0.1 metres. The absolute average difference between flood levels is 0.09 metres. Therefore, it can be concluded that the TUFLOW model developed for the current study is producing realistic flood level estimates and will provide a suitable tool for undertaking the design flood simulations.

# 5 DESIGN FLOOD ESTIMATION

## 5.1 General

Design floods are hypothetical floods that are commonly used for floodplain management investigations. Design floods are based on statistical analysis of rainfall and flood records and are typically defined by their probability of exceedance. This is often expressed as an Annual Exceedance Probability (AEP).

The AEP of a flood flow or level or depth at a particular location is the probability that the flood flow or level or depth will be equalled or exceeded in any one year. For example, a 1% AEP flood is the best estimate of a flood that has a 1% chance of being equalled or exceeded in any one year.

Design floods can also be expressed by their Average Recurrence Interval (ARI). For example, the 1% AEP flood can also be expressed as a 100 year ARI flood. That is, the 1% AEP flood will be equalled or exceeded, on average, once in a 100 years.

It should be noted that there is no guarantee that a 1% AEP flood will occur once in a 100-year period. It may occur more than once, or at no time at all in the 100-year period. This is because design floods are based upon a long-term statistical average. Therefore, it is prudent to understand that the occurrence of recent large floods does not preclude the potential for another large flood to occur in the immediate future.

Design floods are typically estimated by applying design rainfall to the hydrologic model to calculate the rainfall excess. The hydraulic model is then used to route the flow hydrographs produced by the hydrologic model across the catchment and calculate key flood variables such as design flood levels, depths and velocities. The procedures employed in deriving the design flood estimates for the study area are outlined in the following sections.

## 5.2 Hydrology

### 5.2.1 Rainfall

Point design rainfall depths were downloaded from the Bureau of Meteorology's IFD webpage. The rainfall was downloaded at the centroid of the study area (-34.1007°, 150.8107). A copy of the point design rainfall depths is enclosed in **Appendix E**. Also included in **Appendix E** is the corresponding ARR1987 rainfall. This shows that the ARR2019 rainfall is most commonly lower that the ARR29187 rainfall.

As part of the flood study it was also necessary to define flood characteristics for the Probable Maximum Flood (PMF). The PMF is considered to be the largest flood that could conceivably occur across a particular area.

The PMF is estimated by routing the Probable Maximum Precipitation (PMP) through the XP-RAFTS model. The PMP is defined as the greatest depth of rainfall that is meteorologically possible at a specific location.

PMP depths were derived for a range of storm durations up to and including the 6-hour event based on procedures set out in the Bureau of Meteorology's *'Generalised Short Duration Method'* (GSDM) (Bureau of Meteorology, 2003). The GSDM PMP calculations are included in **Appendix E**.

### 5.2.2 Areal Reduction Factors

The design rainfall intensities presented in the preceding section are only applicable for catchment areas of up to 1 $km^2$. Therefore, ARR2019 includes areal reduction factors that recognise that there is unlikely to be a uniformly high rainfall intensity across all sections of large catchments.

The primary input variable to calculate the areal reduction factors is the contributing catchment area. One of the main difficulties in applying the areal reduction factors for a flood study such as this is the fact that the contributing catchment area varies considerably across the study area. For example, the contributing catchment areas vary from less than 1 $km^2$ at the upstream end of each major subcatchment (and smaller tributaries) up to 5 $km^2$ at the downstream end of the Spring Creek catchment. Therefore, to fully apply the correct areal reduction factors, it would be necessary to calculate the catchment area draining to the outlet of each subcatchment, determine the reduction factor for each subcatchment then adjust the point rainfall intensities individually for each subcatchment. This would result in a significant increase in the number of design storms that need to be simulated with associated increases in simulation times and processing effort. Therefore, it was considered more appropriate to select a single representative contributing catchment area to develop a single set of areal reduction factors for application to each study area.

As a first step, the subcatchments where the contributing catchment area was less than versus greater than 1 $km^2$ (i.e., the area threshold where reduction factors begin to be applied) was investigated. The outcomes of this assessment are presented in **Plate 11** with yellow subcatchments having a contributing catchment area less than 1 $km^2$ and red subcatchments having a contributing catchment area greater than 1 $km^2$.

The information presented in **Plate 11** shows that most subcatchments in the study area have a contributing upstream catchment of less than 1 $km^2$ (635 out of the 673 subcatchments within the study area have a contributing catchment area of less than 1 $km^2$). Therefore, application of no areal reductions would be appropriate for approximately 94% of the study area.

For the remaining 6% of the catchment, the total contributing catchment area generally did not exceed 4 $km^2$. Therefore, the areal reduction factor for these remaining subcatchments is unlikely to exceed 10% (i.e., only a small reduction in rainfall would be applied).

As the majority of subcatchments comprise a contributing catchment area of less than 1 $km^2$ and the remaining subcatchments would only require application of a small reduction factor, no areal rainfall reductions factors were applied to the point rainfall depths.

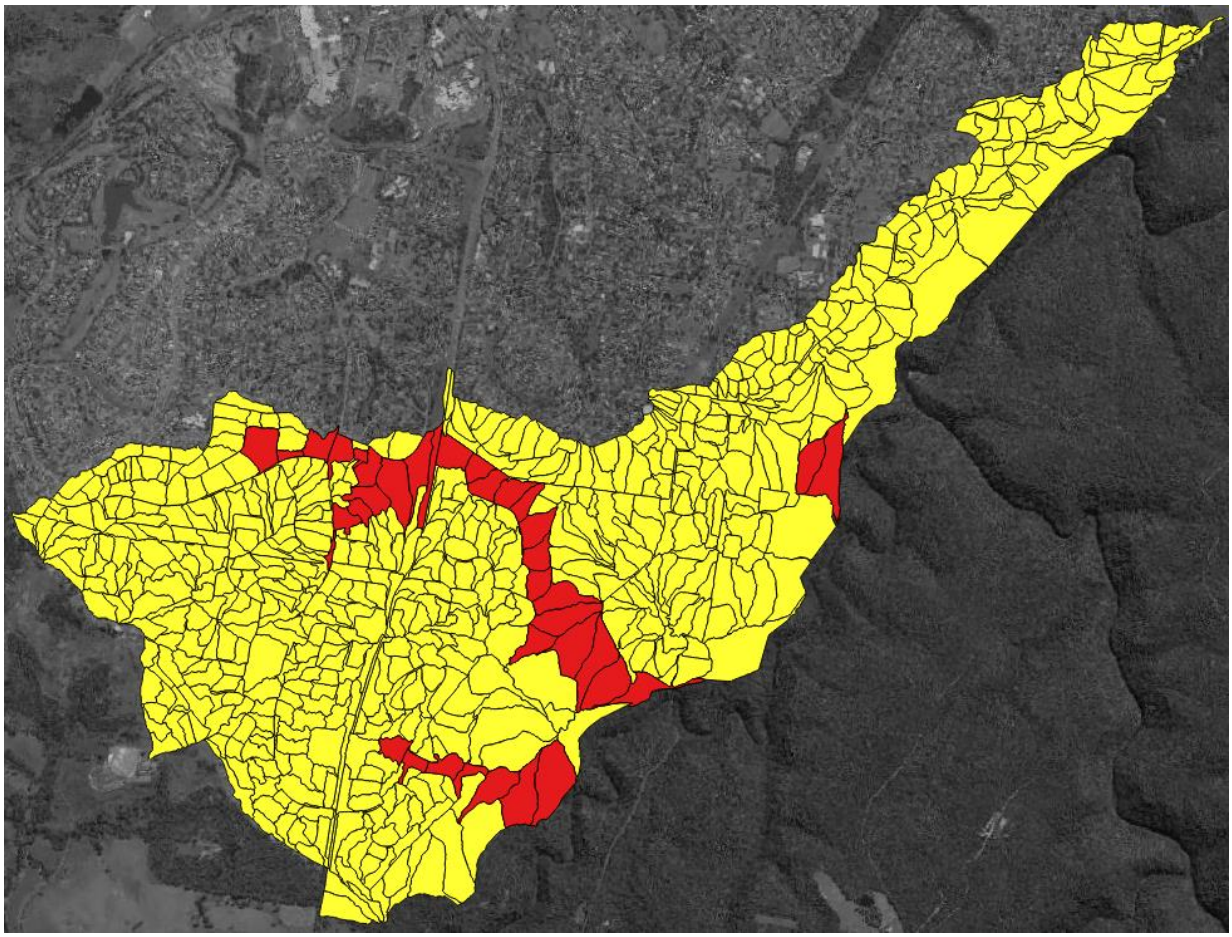


Plate 11 Subcatchments where the contributing catchment area is less than 1 km$^2$ (yellow) and greater than 1 km$^2$ (red) (aerial image courtesy of Google)

### 5.2.3 Rainfall Losses

As discussed, the XP-RAFTS model was developed to include the "initial-continuing loss" model to account for rainfall that is intercepted/infiltrated and does not contribute to runoff.

ARR2019 recommends a hierarchical approach for determining the most appropriate initial (i.e., burst) loss and continuing loss values to apply as part of design flood simulations. In instances where insufficient information is available to calibrate rainfall losses (such as this study), the ARR2019 jurisdictional advice for NSW recommends adoption of rainfall loss information from the ARR2019 data hub. Further information on the adopted burst losses and continuing loss rates adopted for the study are provided below.

#### *Burst Losses*

Probability neutral "burst" losses were downloaded from the ARR2019 data hub. For the Campbelltown Southern catchments study area, this resulted in burst losses that vary between 6.6 and 42.5 mm. However, it is noted that the burst losses provided on the Data Hub are intended for application to rural/undeveloped catchments. Therefore, Section 3.5.3.2.1 of Book 5 of ARR2019 suggests that for catchments with an urban component, the burst loss should be 60 to 80% of the rural burst loss to account for the reduced infiltration potential across catchments with an urban proportion. A 70% adjustment factor was adopted for this study.

The adopted burst losses are summarised in **Table 9**. **Table 9** shows that the burst losses vary between 4.6mm and 24.8mm. By way of comparison, the 1987 version of Australian Rainfall and Runoff recommended initial losses of between 10mm and 30mm. An initial loss of 15mm was adopted as part of the *Bow Bowing/Bunbury Curran Creek Flood Studies* discussed in Section 3.2.1.

Table 9 Adopted Burst Rainfall Losses for Pervious Surfaces

| Duration | Burst Loss (mm) | | | | | |
|---|---|---|---|---|---|---|
| | 50% AEP | 20% AEP | 10% AEP | 5% AEP | 2% AEP | ≥1% AEP |
| <1 hour | 18.1 | 11.1 | 10.2 | 10.6 | 10.6 | 8.9 |
| 1 hour | 18.1 | 11.1 | 10.2 | 10.6 | 10.6 | 8.9 |
| 1.50 hour | 20.7 | 11.8 | 10.3 | 10.2 | 9.7 | 9.0 |
| 2 hours | 22.8 | 12.5 | 10.5 | 9.8 | 8.9 | 6.6 |
| 3 hours | 21.7 | 11.6 | 9.7 | 9.6 | 8.9 | 6.7 |
| 6 hours | 20.4 | 12.6 | 10.9 | 9.7 | 7.6 | 4.6 |
| 12 hours | 20.4 | 14.6 | 13.6 | 12.3 | 10.5 | 6.4 |
| 18 hours | 24.2 | 18.1 | 16.9 | 14.8 | 13.7 | 8.3 |
| 24 hours | 24.8 | 19.5 | 19.3 | 17.4 | 16.6 | 10.0 |

For impervious areas, Section 3.5.3.1.2 of Book 5 of ARR2019 recommends a storm initial loss of 1 mm. However, the storm loss of 1 mm needs to be adjusted to account for preburst rainfall. This yielded an impervious burst loss of 0 mm for all storm durations. This compares to a storm loss of 1 mm adopted as part of the *Bow Bowing/Bunbury Curran Creek Flood Studies*.

A burst/initial loss of 0 mm was adopted for all surfaces/catchment areas for the PMP simulations in line with recommendations in Chapter 4 of Book 8 of ARR2019.

#### *Continuing Loss Rates*

The ARR2019 jurisdictional advice for NSW recommends that the continuing loss rate documented on the Data Hub be reduced by 60% before application to pervious surfaces. The "raw" loss rate documented on the data hub is 2.4 mm/hr. Therefore, the adjusted loss rate is 0.96 mm/hr and was adopted for application to pervious surfaces. The *Bow Bowing/Bunbury Curran Creek Flood Studies* adopted a continuing loss rate of 2.5 mm/hr.

For impervious areas, Section 3.5.3.1.2 of Book 5 of ARR2019 recommends a continuing loss rate of 0 mm/hr. Therefore, the continuing loss rate of 0 mm/hr was adopted directly in the XP-RAFTS model. This is consistent with the loss rate adopted as part of the *Bow Bowing/Bunbury Curran Creek Flood Studies*.

### 5.2.4 Temporal Patterns

ARR2019 employs 10 different temporal patterns for each AEP/storm duration to define the time variation in rainfall during each storm. The use of a variety of different temporal

patterns is intended to reflect the natural variability of a typical rainfall event (i.e., no two storms will be the same).

The temporal patterns for the study area were downloaded from the ARR data hub and were used to simulate the temporal distribution of rainfall for each design storm. In accordance with ARR2019 for catchments with an area less than 75 km$^2$, the "point" temporal patterns rather than "areal" temporal patterns were selected to describe the temporal variation in rainfall.

ARR2019 groups the temporal patterns into "frequent", "intermediate" and "rare" bins, which were applied to each design storm as follows:

- Frequent temporal patterns: 20% AEP
- Intermediate temporal patterns: 5% AEP
- Rare temporal patterns: 2% AEP, 1% AEP, 0.5% AEP and 0.2% AEP

For the PMP, a single temporal pattern was adopted for each PMP storm simulation in line with the approach recommended in the *'Generalised Short Duration Method'* (GSDM) (Bureau of Meteorology, 2003).

### 5.2.5 Results

The XP-RAFTS model was used to simulate rainfall runoff processes for the complete suite of design storms. The design 20% AEP, 5% AEP, 2% AEP, 1% AEP, 0.5% AEP and 0.2% AEP storms were simulated in addition to the PMP.

As discussed, a suite of ten temporal patterns were used to represent the temporal variation in rainfall for each design flood frequency up to and including the 0.2% AEP event. The peak discharges from the full suite of temporal patterns for each design event were reviewed to determine the critical storm duration for each subcatchment. The critical storm duration was defined by calculating the average discharge for each storm duration for each subcatchment (based on all 10 temporal patterns). The storm duration that generated the highest average discharge was selected as the critical duration for that subcatchment. The resulting critical storm durations for each subcatchment are presented in **Appendix F**. The results of the hydrologic analysis indicate that the critical duration across the study area generally varies between 10 minutes and 6 hours with the 10 minute storm being most commonly critical.

Once the critical duration was determined, a representative temporal pattern was selected for that duration. The temporal pattern that generated the peak discharge immediately above the median discharge was selected as the most representative temporal pattern for each subcatchment. The adopted temporal pattern for each subcatchment along with the peak discharge generated by the representative temporal pattern is also provided in **Appendix F**.

The results of the hydrologic analysis also indicate many unique combinations of critical durations and temporal patterns across the study area. More specifically:

- 20% AEP: 43 unique critical storms

- 5% AEP: 41 unique critical storms
- 2% AEP: 47 unique critical storms
- 1% AEP: 42 unique critical storms
- 0.5% AEP: 40 unique critical storms
- 0.2% AEP: 46 unique critical storms.

## 5.3 Hydraulics

### 5.3.1 Boundary Conditions

***Inflow Boundaries***

As discussed in the previous section, an XP-RAFTS hydrologic model was used to simulate the transformation of rainfall into runoff and generate discharge hydrographs throughout the study area. The discharge hydrographs generated by the XP-RAFTS models were used to define inflow boundary conditions for the TUFLOW models.

However, as noted above, a large number of unique critical durations and temporal patterns were determined as part of the hydrologic analysis (i.e., more than 250 unique combinations of AEP, duration and temporal patterns). Although the XP-RAFTS model runs in a matter of seconds and can run a large number of storms in a relatively short amount of time, the hydraulic model takes several hours to run a single storm. Therefore, it was not considered feasible to run all unique combinations of storm durations and temporal patterns through the hydraulic model in a timely manner.

Therefore, the assessment of critical durations and temporal patterns was restricted to a selection of "focus" locations. A focus location was defined as a major watercourse or a location where preliminary design flood simulations showed a major flow path. A total of 26 focus locations were identified and are shown in **Plate 12**.

Once the assessment of critical durations and temporal patterns was reduced from every subcatchment (i.e., >600 locations) down to 26 focus locations, the number of unique storms was significantly reduced (less than 16 unique combination of storm duration and temporal pattern per design flood). However, this was still considered to be too many simulations to undertake efficiently (noting that the future floodplain risk management study will require simulation of each design flood multiple times for each of the potential flood risk mitigation measures).

Therefore, the XP-RAFTS results were further reviewed to determine if a reduced number of temporal patterns and durations could be applied without significantly impacting on the overall hydrologic outcomes. A total of 5 unique storms were targeted for each AEP/design flood.

The peak discharges generated by the most commonly "critical" temporal patterns and durations were compared against the peak discharges generated by the "correct" temporal patterns and durations for each subcatchment to determine the difference in peak discharge that would result from using a reduced set of temporal patterns.

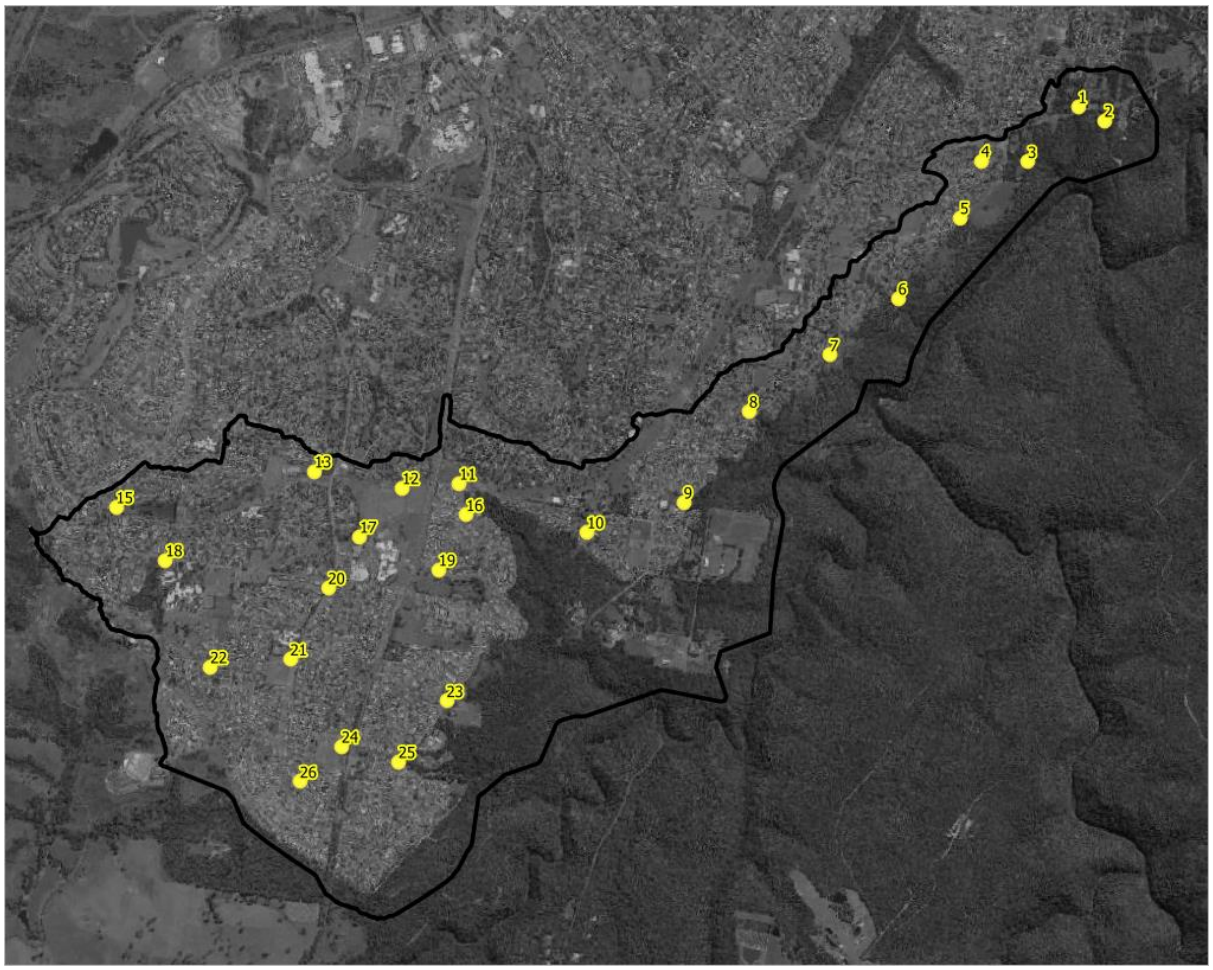



Plate 12 "Focus" locations (yellow) selected for critical duration & temporal pattern analysis

The outcomes of this assessment are summarised in **Appendix F**. **Appendix F** provide the "actual" critical discharges (i.e., based on consideration of all durations and temporal patterns) for each subcatchment but also includes the peak discharges that would be generated based upon the reduced set of temporal patterns and storm durations. The temporal patterns and storm durations that were ultimately selected for each AEP are documented in **Appendix F** and are also summarised in **Table 10**.

Table 10 Adopted temporal patterns and storm durations for hydraulic analysis

| Design Storm | Storm Durations and Temporal Pattern ID | | | | | | |
|---|---|---|---|---|---|---|---|
| | 10 mins | 15 mins | 20 mins | 45 mins | 60 mins | 90 mins | 120 mins |
| 20% AEP | 4388 | | 4448<br>4450 | 4547 | | | 4643 |
| 5% AEP | 4378 | 4415 | 4439 | | 4565 | | 4624 |
| 2% AEP | 4354 | 4358 | 4371 | | | 4585 | 4499 |
| 1% AEP | 4354 | | 4429 | 4533 | 4558 | | 4611 |
| 0.5% AEP | 4354 | 4400 | 4371 | | 4558 | | 4611 |
| 0.2% AEP | 4354 | 4396 | 4371 | 4533 | | | 4431 |

As shown in **Table 10**, the adopted storm durations were most commonly less than 60 minutes and these shorter storms were most commonly critical across the smaller contributing catchment areas (e.g., overland flow path areas). However, some longer storm durations were also included as they often contributed the most significant inundation in flood detention basins.

The peak discharges summarised in **Appendix F** show that the reduced set of storms produce peak discharges that, on average, fall within +0.1 $m^3/s$ of the "adopted" peak discharge. The average percentage difference in peak discharge across all subcatchments and events was determined to vary from +3% during the 5% AEP flood down to +1% during the 1% AEP flood. Therefore, although adopting a reduced set of temporal patterns is providing slightly higher ARR2019 discharge estimates, the discharges are not significantly inflated. Therefore, it is considered that the reduced set of temporal patterns and durations is reasonable for application to the hydraulic model as part of the design floods analysis.

#### *Downstream Boundary*

Downstream boundary condition for the TUFLOW model was defined using a "normal depth" calculation. That is, the water level at the downstream model boundary was defined based on the stream geometry and slope as well as the total discharge at the downstream model boundary.

### 5.3.2 Blockage

#### *Bridges and Culverts*

As discussed in Section 4.3.4, a review of Campbelltown City Council blockage factors for hydraulic structures (i.e., bridges and culverts) was completed as part of the project. This review determined that the Council blockage factors are most commonly comparable or slightly higher than the corresponding blockage factors recommended in ARR2019. Therefore, the Council blockage factors were retained as part of the 'base' design simulations to ensure consistency with the flood studies completed across the BBBC Creek catchment.

The impact of no blockage as well as complete blockage of hydraulic structures was assessed as part of the model sensitivity analysis.

#### *Stormwater System*

A 50% blockage factor was also applied to all sag stormwater inlets and 20% blockage was applied to on-grade stormwater inlets in accordance with Council's '*Engineering Design for Development'* (2014).

The impact of no blockage as well as complete blockage of stormwater pits was assessed as part of the model sensitivity analysis.

## 5.4 Results

### 5.4.1 Design Flood Envelope

As discussed, a range of design storm durations and temporal patterns were simulated for each design flood. Therefore, the results from each simulation for each design flood were combined to form a "design flood envelope" for each design flood. It is this "design flood

envelope" comprising the most critical depths, velocities and levels from a risk management perspective that forms the basis for the results documented in the following sections.

### 5.4.2 Peak Depths, Levels and Velocities

Results were extracted from the final design flood envelopes and were used to prepare a floodwater depth and velocity vectors maps for the 20% AEP, 5% AEP, 2% AEP, 1% AEP, 0.5% AEP and 0.2% AEP as well as the PMF. This information is provided in **Figures 9** to **15**.

Peak flood levels, depths and velocities were also extracted at key locations across the study area (refer to **Plate 13** for locations) and are provided in **Table 11**, **Table 12** and **Table 13** respectively. The key locations are very similar to the Focus Locations previously shown in **Plate 13**. However, the locations have been slightly modified so they correlate with locations of more significant water depths (rather than subcatchment outlets).

**Figures 9** to **15** shows that floodwaters are typically contained close to each of the main watercourses, detention basins as well as within roadways. However, there are several locations where floodwaters are predicted to travel overland through private property. This includes properties in the following areas (provided in alphabetical order):

- Airds:
  - Davidson Place
  - Douro Place
  - Peppin Crescent
  - Riverside Drive (near Katella Place)
  - Riverside Drive (near Kelburn Place)
  - Saxon Way
  - Tuppel Way
- Bradbury:
  - Pinaroo Crescent
- Rosemeadow:
  - Thomas Ruse Drive
  - Demetrius Road
- Saint Helens Park
  - Karrabul Road,
  - Parma Crescent
  - Fullerton Circuit
  - Lavender Court
  - Mackillop Crescent
  - Pyramus Circuit
  - Carbasse Crescent

Although this list appears exhaustive, the predicted inundation depths across most of the locations during the 1% AEP flood is generally no greater than 0.15 metres. Therefore, the inundation is unlikely to present a significant danger to people or pose a significant risk of structural damage to buildings. Further information regarding the potential flood hazard is provided in Chapter 6.

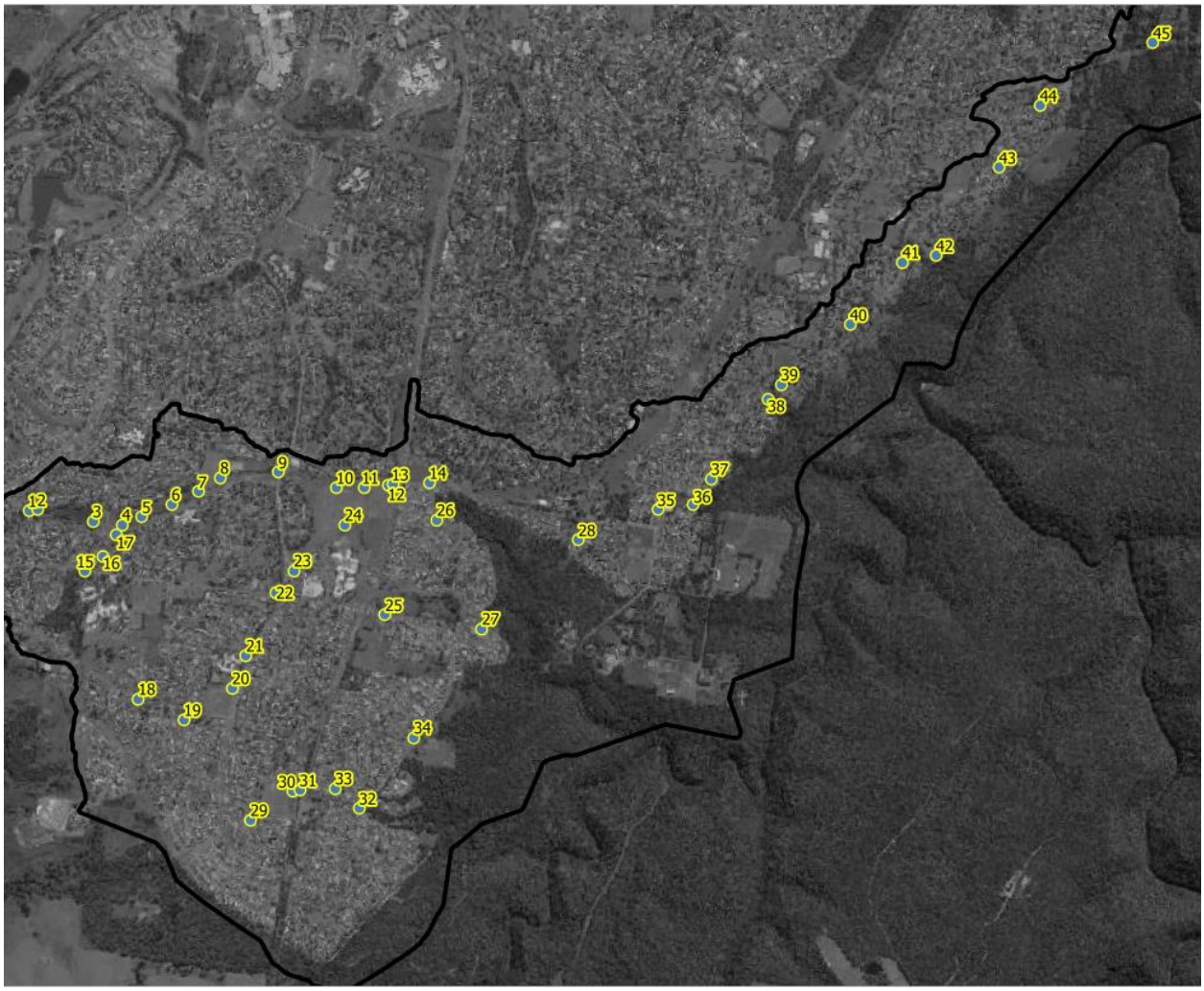



Plate 13 Locations where design flood results were extracted and tabulated

Floodwaters are also predicted to extend across multiple roadways during large floods in the area. This has the potential to cut roads and may pose a risk if people elect to drive through floodwaters. Further details on the potential impacts of flooding on transportation links is provided in Chapter 6.

### 5.4.3 Inundated Properties and Buildings

The number of properties and buildings predicted to be subject to inundation during the 1% AEP flood and PMF were also determined. However, it was noted that many properties and buildings would be subject to very shallow depths of inundation and this inundation would not pose a significant flood risk. Therefore, a depth filter of 0.15 metres was applied to the raw modelling results to help distinguish between areas of negligible inundation and areas with a more significant flood exposure. The 0.15 metre depth threshold was adopted as it corresponds to the minimum finished floor height requirement documented in the National Construction Code (i.e., once water depths exceed 0.15 metres, buildings may be exposed to above floor flooding).

This resulting inundated property and building locations are presented in **Figure 16** and **17**.

Table 11 Peak Design Water Levels at Key Locations

| Location (refer Plate 13) | | Peak Water Level (mAHD) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 20%AEP | 5%AEP | 2%AEP | 1%AEP | 0.5%AEP | 0.2%AEP | PMF |
| 1 | Haredale Park (US of Haredale St) | 142.40 | 142.81 | 142.90 | 142.91 | 142.96 | 142.98 | 143.42 |
| 2 | DS Haredale Rd (drainage depression) | 141.14 | 141.21 | 141.29 | 141.30 | 141.34 | 141.36 | 141.82 |
| 3 | Mandurama Reserve (US Crispsparkle Dr) | 139.45 | 139.70 | 139.89 | 139.99 | 140.08 | 140.24 | 141.12 |
| 4 | DS Crisparkle Dr (Cleopatra Reserve 1) | 134.53 | 134.60 | 134.61 | 134.63 | 134.64 | 134.65 | 135.04 |
| 5 | Cleopatra Reserve 2 | 133.32 | 133.40 | 133.44 | 133.47 | 133.48 | 133.51 | 134.17 |
| 6 | Cleopatra Reserve 3 | 131.38 | 131.57 | 131.64 | 131.64 | 131.66 | 131.69 | 132.36 |
| 7 | Cleopatra Reserve 4 | 128.70 | 129.49 | 129.57 | 129.55 | 129.58 | 129.60 | 130.21 |
| 8 | Thomas Acres Reserve | 126.49 | 126.78 | 127.33 | 127.59 | 127.71 | 127.79 | 128.46 |
| 9 | US Copperfield Dr | 123.82 | 124.02 | 124.14 | 124.24 | 124.32 | 124.45 | 125.73 |
| 10 | Rosemeadow Reserve 1 North | 121.97 | 122.50 | 122.64 | 122.87 | 122.95 | 123.11 | 123.92 |
| 11 | Rosemeadow Reserve 2 | 120.22 | 120.51 | 120.59 | 120.73 | 120.81 | 120.92 | 121.99 |
| 12 | Rosemeadow Reserve 3 | 118.32 | 118.73 | 118.82 | 118.98 | 119.08 | 119.19 | 120.60 |
| 13 | US Appin Rd | 117.69 | 117.88 | 117.93 | 118.04 | 118.11 | 118.17 | 120.12 |
| 14 | US St Helens Park Rd | 116.85 | 117.15 | 117.17 | 117.23 | 117.25 | 117.27 | 118.50 |
| 15 | Demetrius Reserve | 139.68 | 139.93 | 140.30 | 140.52 | 140.62 | 140.69 | 141.39 |
| 16 | Octavia Reserve | 135.92 | 136.67 | 136.99 | 137.22 | 137.76 | 138.18 | 139.08 |
| 17 | Canidius Reserve | 134.93 | 135.43 | 135.51 | 135.87 | 135.95 | 136.04 | 136.85 |
| 18 | Malvolla St at Desdemona St | 147.77 | 147.96 | 148.00 | 148.02 | 148.04 | 148.07 | 148.36 |
| 19 | Valentine Pl at Othello Ave | 141.42 | 141.49 | 141.55 | 141.59 | 141.63 | 141.67 | 142.23 |
| 20 | Haydon Park | 138.09 | 138.22 | 138.32 | 138.39 | 138.43 | 138.46 | 138.78 |
| 21 | US Anthony Drive | 132.77 | 132.99 | 133.10 | 133.15 | 133.18 | 133.23 | 133.92 |
| 22 | US Julius Rd | 129.57 | 129.70 | 129.76 | 129.79 | 129.84 | 129.89 | 130.62 |
| 23 | Thomas Rose Dr | 126.95 | 127.22 | 127.37 | 127.45 | 127.55 | 127.63 | 128.55 |
| 24 | Rosemeadow Reserve 1 South | 122.58 | 122.76 | 122.84 | 122.93 | 123.00 | 123.14 | 123.94 |
| 25 | Kellerman Dr at Heritage Heights Circuit | 135.42 | 135.50 | 135.52 | 135.55 | 135.56 | 135.59 | 135.77 |
| 26 | Ironside Ave | 118.21 | 118.37 | 118.44 | 118.46 | 118.50 | 118.53 | 119.20 |
| 27 | Fullerton Circuit | 133.06 | 133.11 | 133.13 | 133.15 | 133.16 | 133.18 | 133.33 |
| 28 | Parma Cres | 127.96 | 128.11 | 128.18 | 128.22 | 128.28 | 128.29 | 129.14 |
| 29 | Francesco Cres | 132.82 | 132.94 | 133.01 | 133.06 | 133.09 | 133.11 | 133.69 |
| 30 | Oswald Reserve | 132.01 | 132.30 | 132.40 | 132.41 | 132.44 | 132.48 | 133.03 |
| 31 | DS Oswald Reserve (US Appin Rd) | 131.78 | 132.00 | 132.28 | 132.29 | 132.37 | 132.42 | 132.99 |
| 32 | US Kellerman Dr | 129.39 | 129.73 | 129.93 | 130.22 | 130.35 | 130.64 | 131.84 |
| 33 | Brice Way | 130.73 | 130.96 | 131.02 | 131.06 | 131.12 | 131.14 | 132.01 |
| 34 | Kellerman Dr (Caspers Dome) | 137.93 | 138.13 | 138.27 | 138.31 | 138.34 | 138.35 | 138.84 |
| 35 | Karrabul Rd | 134.72 | 134.77 | 134.78 | 134.80 | 134.81 | 134.82 | 134.96 |
| 36 | Larapinta Cres | 128.76 | 128.87 | 128.91 | 128.93 | 128.96 | 128.98 | 129.29 |
| 37 | Larapinta Cres at Boongary St | 131.09 | 131.16 | 131.20 | 131.22 | 131.24 | 131.26 | 131.47 |
| 38 | Merino Cres | 130.48 | 130.55 | 130.57 | 130.59 | 130.61 | 130.63 | 130.98 |
| 39 | Douro Pl | 133.08 | 133.12 | 133.13 | 133.14 | 133.15 | 133.17 | 133.32 |
| 40 | Greengate Rd | 134.78 | 134.82 | 134.83 | 134.84 | 134.85 | 134.86 | 135.02 |
| 41 | Riverside Dr | 135.08 | 135.16 | 135.18 | 135.20 | 135.21 | 135.24 | 135.42 |
| 42 | Boonoke Pl | 127.73 | 127.77 | 127.78 | 127.80 | 127.83 | 127.83 | 128.08 |
| 43 | Riverside Dr at Davidson Pl | 135.77 | 135.82 | 135.83 | 135.85 | 135.86 | 135.88 | 136.04 |
| 44 | Peppin Cres | 133.13 | 133.17 | 133.18 | 133.19 | 133.20 | 133.22 | 133.38 |
| 45 | Georges River Rd | 125.78 | 126.57 | 126.91 | 127.16 | 127.44 | 127.51 | 129.12 |

Table 12 Peak Design Water Depths at Key Locations

| Location (refer Plate 13) | | Peak Water Depth (m) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 20%AEP | 5%AEP | 2%AEP | 1%AEP | 0.5%AEP | 0.2%AEP | PMF |
| 1 | Haredale Park (US of Haredale St) | 2.26 | 2.68 | 2.76 | 2.78 | 2.82 | 2.85 | 3.29 |
| 2 | DS Haredale Rd (drainage depression) | 1.34 | 1.42 | 1.49 | 1.51 | 1.55 | 1.57 | 2.03 |
| 3 | Mandurama Reserve (US Crispsparkle Dr) | 1.01 | 1.26 | 1.45 | 1.55 | 1.64 | 1.80 | 2.68 |
| 4 | DS Crisparkle Dr (Cleopatra Reserve 1) | 1.82 | 1.89 | 1.90 | 1.92 | 1.93 | 1.94 | 2.33 |
| 5 | Cleopatra Reserve 2 | 2.03 | 2.10 | 2.14 | 2.17 | 2.19 | 2.21 | 2.88 |
| 6 | Cleopatra Reserve 3 | 1.70 | 1.90 | 1.97 | 1.97 | 1.99 | 2.02 | 2.68 |
| 7 | Cleopatra Reserve 4 | 1.38 | 2.17 | 2.25 | 2.24 | 2.27 | 2.29 | 2.90 |
| 8 | Thomas Acres Reserve | 0.66 | 0.95 | 1.49 | 1.76 | 1.88 | 1.96 | 2.63 |
| 9 | US Copperfield Dr | 0.93 | 1.13 | 1.26 | 1.35 | 1.44 | 1.56 | 2.85 |
| 10 | Rosemeadow Reserve 1 North | 1.15 | 1.68 | 1.82 | 2.06 | 2.14 | 2.30 | 3.11 |
| 11 | Rosemeadow Reserve 2 | 1.42 | 1.71 | 1.79 | 1.93 | 2.01 | 2.12 | 3.19 |
| 12 | Rosemeadow Reserve 3 | 0.91 | 1.31 | 1.40 | 1.57 | 1.66 | 1.78 | 3.18 |
| 13 | US Appin Rd | 1.19 | 1.39 | 1.44 | 1.55 | 1.62 | 1.67 | 3.63 |
| 14 | US St Helens Park Rd | 2.38 | 2.67 | 2.70 | 2.75 | 2.78 | 2.80 | 4.03 |
| 15 | Demetrius Reserve | 0.58 | 0.83 | 1.19 | 1.42 | 1.51 | 1.59 | 2.29 |
| 16 | Octavia Reserve | 0.84 | 1.59 | 1.90 | 2.13 | 2.68 | 3.09 | 4.00 |
| 17 | Canidius Reserve | 0.77 | 1.28 | 1.35 | 1.72 | 1.79 | 1.88 | 2.70 |
| 18 | Malvolla St at Desdemona St | 0.22 | 0.40 | 0.45 | 0.47 | 0.49 | 0.52 | 0.81 |
| 19 | Valentine Pl at Othello Ave | 0.48 | 0.54 | 0.60 | 0.65 | 0.69 | 0.72 | 1.28 |
| 20 | Haydon Park | 1.49 | 1.62 | 1.72 | 1.79 | 1.82 | 1.85 | 2.18 |
| 21 | US Anthony Drive | 1.32 | 1.54 | 1.64 | 1.69 | 1.73 | 1.78 | 2.47 |
| 22 | US Julius Rd | 2.50 | 2.64 | 2.70 | 2.73 | 2.77 | 2.82 | 3.56 |
| 23 | Thomas Rose Dr | 0.33 | 0.61 | 0.76 | 0.84 | 0.94 | 1.02 | 1.94 |
| 24 | Rosemeadow Reserve 1 South | 1.44 | 1.62 | 1.70 | 1.79 | 1.86 | 2.00 | 2.80 |
| 25 | Kellerman Dr at Heritage Heights Circuit | 0.34 | 0.41 | 0.43 | 0.46 | 0.47 | 0.50 | 0.68 |
| 26 | Ironside Ave | 0.28 | 0.44 | 0.51 | 0.53 | 0.57 | 0.60 | 1.26 |
| 27 | Fullerton Circuit | 0.17 | 0.22 | 0.24 | 0.26 | 0.27 | 0.29 | 0.44 |
| 28 | Parma Cres | 0.22 | 0.36 | 0.44 | 0.48 | 0.53 | 0.55 | 1.40 |
| 29 | Francesco Cres | 0.60 | 0.73 | 0.80 | 0.85 | 0.88 | 0.90 | 1.48 |
| 30 | Oswald Reserve | 1.81 | 2.11 | 2.21 | 2.21 | 2.24 | 2.28 | 2.83 |
| 31 | DS Oswald Reserve (US Appin Rd) | 0.66 | 0.87 | 1.15 | 1.17 | 1.24 | 1.30 | 1.86 |
| 32 | US Kellerman Dr | 1.54 | 1.88 | 2.08 | 2.36 | 2.50 | 2.79 | 3.99 |
| 33 | Brice Way | 0.27 | 0.49 | 0.55 | 0.59 | 0.65 | 0.67 | 1.54 |
| 34 | Kellerman Dr (Caspers Dome) | 0.10 | 0.30 | 0.43 | 0.48 | 0.51 | 0.52 | 1.01 |
| 35 | Karrabul Rd | 0.29 | 0.33 | 0.35 | 0.36 | 0.37 | 0.39 | 0.53 |
| 36 | Larapinta Cres | 0.32 | 0.43 | 0.47 | 0.49 | 0.52 | 0.54 | 0.85 |
| 37 | Larapinta Cres at Boongary St | 0.20 | 0.27 | 0.31 | 0.32 | 0.35 | 0.36 | 0.58 |
| 38 | Merino Cres | 0.45 | 0.52 | 0.54 | 0.56 | 0.58 | 0.60 | 0.95 |
| 39 | Douro Pl | 0.26 | 0.31 | 0.31 | 0.33 | 0.33 | 0.35 | 0.50 |
| 40 | Greengate Rd | 0.19 | 0.23 | 0.24 | 0.25 | 0.26 | 0.28 | 0.43 |
| 41 | Riverside Dr | 0.29 | 0.36 | 0.38 | 0.40 | 0.42 | 0.44 | 0.62 |
| 42 | Boonoke Pl | 0.14 | 0.18 | 0.19 | 0.21 | 0.23 | 0.24 | 0.48 |
| 43 | Riverside Dr at Davidson Pl | 0.25 | 0.30 | 0.32 | 0.33 | 0.35 | 0.37 | 0.52 |
| 44 | Peppin Cres | 0.32 | 0.35 | 0.36 | 0.37 | 0.38 | 0.40 | 0.56 |
| 45 | Georges River Rd | 0.54 | 1.32 | 1.67 | 1.92 | 2.20 | 2.26 | 3.87 |

Table 13 Peak Design Flow Velocities at Key Locations

| Location (refer Plate 13) | | Peak Velocity (m/s) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 20%AEP | 5%AEP | 2%AEP | 1%AEP | 0.5%AEP | 0.2%AEP | PMF |
| 1 | Haredale Park (US of Haredale St) | 0.25 | 0.28 | 0.38 | 0.47 | 0.50 | 0.56 | 1.14 |
| 2 | DS Haredale Rd (drainage depression) | 0.28 | 0.38 | 0.52 | 0.57 | 0.60 | 0.65 | 1.18 |
| 3 | Mandurama Reserve (US Crispsparkle Dr) | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.07 | 0.32 |
| 4 | DS Crisparkle Dr (Cleopatra Reserve 1) | 0.22 | 0.30 | 0.55 | 0.66 | 0.72 | 0.85 | 1.13 |
| 5 | Cleopatra Reserve 2 | 0.31 | 0.33 | 0.31 | 0.32 | 0.37 | 0.52 | 0.77 |
| 6 | Cleopatra Reserve 3 | 0.23 | 0.33 | 0.49 | 0.55 | 0.58 | 0.65 | 1.18 |
| 7 | Cleopatra Reserve 4 | 0.57 | 0.71 | 0.61 | 0.73 | 0.75 | 0.71 | 0.99 |
| 8 | Thomas Acres Reserve | 0.50 | 0.55 | 0.54 | 0.61 | 0.62 | 0.80 | 0.99 |
| 9 | US Copperfield Dr | 0.76 | 0.76 | 0.78 | 0.76 | 0.77 | 0.76 | 1.19 |
| 10 | Rosemeadow Reserve 1 North | 0.65 | 0.66 | 0.65 | 0.65 | 0.65 | 0.63 | 0.48 |
| 11 | Rosemeadow Reserve 2 | 0.50 | 0.51 | 0.54 | 0.56 | 0.55 | 0.59 | 1.83 |
| 12 | Rosemeadow Reserve 3 | 2.14 | 2.15 | 2.15 | 2.14 | 2.13 | 2.12 | 2.01 |
| 13 | US Appin Rd | 1.29 | 1.39 | 1.47 | 1.54 | 1.58 | 1.65 | 2.22 |
| 14 | US St Helens Park Rd | 1.67 | 1.74 | 1.61 | 1.63 | 1.59 | 1.63 | 1.82 |
| 15 | Demetrius Reserve | 0.85 | 0.90 | 0.87 | 0.89 | 0.89 | 0.88 | 0.77 |
| 16 | Octavia Reserve | 0.50 | 0.44 | 0.82 | 0.85 | 0.86 | 0.89 | 1.19 |
| 17 | Canidius Reserve | 0.56 | 0.72 | 0.71 | 0.73 | 0.74 | 0.73 | 0.65 |
| 18 | Malvolla St at Desdemona St | 0.24 | 0.31 | 0.32 | 0.36 | 0.40 | 0.64 | 1.81 |
| 19 | Valentine Pl at Othello Ave | 0.29 | 0.37 | 0.47 | 0.56 | 0.61 | 0.71 | 2.47 |
| 20 | Haydon Park | 0.87 | 0.40 | 0.77 | 1.01 | 1.03 | 0.55 | 0.97 |
| 21 | US Anthony Drive | 1.01 | 1.01 | 1.01 | 1.01 | 1.02 | 1.03 | 1.51 |
| 22 | US Julius Rd | 1.18 | 1.19 | 1.24 | 1.27 | 1.28 | 1.28 | 1.10 |
| 23 | Thomas Rose Dr | 0.96 | 0.90 | 0.92 | 0.90 | 0.93 | 0.88 | 1.50 |
| 24 | Rosemeadow Reserve 1 South | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.42 | 1.32 |
| 25 | Kellerman Dr at Heritage Heights Circuit | 0.52 | 0.71 | 0.78 | 0.88 | 0.95 | 1.09 | 2.81 |
| 26 | Ironside Ave | 0.72 | 0.82 | 0.87 | 0.85 | 0.86 | 0.88 | 1.26 |
| 27 | Fullerton Circuit | 0.20 | 0.31 | 0.47 | 0.53 | 0.57 | 0.62 | 0.96 |
| 28 | Parma Cres | 0.55 | 0.66 | 0.71 | 0.78 | 0.79 | 0.83 | 1.59 |
| 29 | Francesco Cres | 0.31 | 0.40 | 0.49 | 0.52 | 0.54 | 0.56 | 0.61 |
| 30 | Oswald Reserve | 0.73 | 0.80 | 0.86 | 0.87 | 0.90 | 0.93 | 1.20 |
| 31 | DS Oswald Reserve (US Appin Rd) | 0.17 | 0.22 | 0.33 | 0.35 | 0.39 | 0.44 | 0.52 |
| 32 | US Kellerman Dr | 0.40 | 0.41 | 0.44 | 0.45 | 0.46 | 0.48 | 0.78 |
| 33 | Brice Way | 0.69 | 0.76 | 0.81 | 0.81 | 0.82 | 0.86 | 0.94 |
| 34 | Kellerman Dr (Caspers Dome) | 0.34 | 0.40 | 0.52 | 0.57 | 0.62 | 0.73 | 1.91 |
| 35 | Karrabul Rd | 0.29 | 0.37 | 0.44 | 0.48 | 0.50 | 0.55 | 0.97 |
| 36 | Larapinta Cres | 0.53 | 0.58 | 0.75 | 0.77 | 0.79 | 0.81 | 1.19 |
| 37 | Larapinta Cres at Boongary St | 0.21 | 0.30 | 0.36 | 0.46 | 0.47 | 0.48 | 0.99 |
| 38 | Merino Cres | 0.26 | 0.27 | 0.44 | 0.47 | 0.47 | 0.50 | 0.68 |
| 39 | Douro Pl | 0.64 | 0.77 | 0.84 | 0.83 | 0.83 | 0.74 | 1.15 |
| 40 | Greengate Rd | 0.23 | 0.37 | 0.40 | 0.45 | 0.46 | 0.47 | 0.83 |
| 41 | Riverside Dr | 0.73 | 0.75 | 0.78 | 0.78 | 0.79 | 0.76 | 1.13 |
| 42 | Boonoke Pl | 0.40 | 0.47 | 0.50 | 0.53 | 0.56 | 0.58 | 0.94 |
| 43 | Riverside Dr at Davidson Pl | 0.37 | 0.49 | 0.53 | 0.54 | 0.55 | 0.56 | 0.80 |
| 44 | Peppin Cres | 0.24 | 0.28 | 0.31 | 0.33 | 0.34 | 0.34 | 0.60 |
| 45 | Georges River Rd | 1.00 | 0.90 | 0.92 | 0.98 | 0.98 | 1.10 | 1.33 |

The total number of properties and buildings impacted by inundation during each design flood is also summarised below. By way of comparison, there are a total of 6,965 properties and 10,110 buildings within the study area (of which approximately 6,682 are habitable with the remaining buildings comprising garages, sheds etc).

- 1% AEP flood:
  - Inundated properties: 623
  - Inundated buildings: 106 habitable + 37 non-habitable
- PMF:
  - Inundated properties: 2,132
  - Inundated buildings: 949 habitable + 392 non-habitable

The information presented above indicates that 2% of habitable buildings located within the study area may be subject to at least partial inundation during the 1% AEP flood. This is predicted to increase to 17% during the PMF.

### 5.4.4 Performance of Detention Basins

A significant number of flood detention basins are located within the Campbelltown Southern Catchment study area. This includes formal detention basins (e.g., Rosemeadow Reserve, Oswald Reserve) as well as smaller informal detention areas/water features (e.g., Mandurama Reserve).

The performance of each basin was assessed by comparing the peak design water levels within each basin relative to the basin spillway/embankment elevation. This determines in what design event each basin is predicted to overtop and, therefore, when the effectiveness of the basin reduces. The outcomes of this assessment are summarised in **Table 14**. Blue highlighted cells in **Table 14** indicate that the peak water level is predicted to be higher than the embankment/spillway level and, therefore, the basin is predicted to overtop in the design flood.

The information in **Table 14** shows that the performance of the various detention areas varies considerably across the study area with some detention areas having insufficient capacity to cater for the 20% AEP flood while others can handle events up to and including the 0.2% AEP flood.

### 5.4.5 Comparison with ARR1987

As discussed in Section 4.4, validation of the hydrologic and hydraulic models was completed to ensure the models were generating reliable estimates of flood behaviour. Further validation of the results documented in this chapter were complete by comparing the ARR2019 1% AEP flood levels with 100year ARI flood levels produced using the 1987 version of Australian Rainfall and Runoff.

Table 14 Peak Design Water Levels in Flood Detention Basins

| Location (refer Plate 13) | | Peak Flood Level (mAHD) | | | | | | | Spillway Elevation (mAHD) |
|---|---|---|---|---|---|---|---|---|---|
| | | 20%AEP | 5%AEP | 2%AEP | 1%AEP | 0.5%AEP | 0.2%AEP | PMF | |
| 1 | Haredale Park (US of Haredale St) | 142.40 | 142.81 | 142.90 | 142.91 | 142.96 | 142.98 | 143.42 | 142.60 |
| 2 | DS Haredale Rd (drainage depression) | 141.14 | 141.21 | 141.29 | 141.30 | 141.34 | 141.36 | 141.82 | 140.88 |
| 3 | Mandurama Reserve (US Crispsparkle Dr) | 139.45 | 139.70 | 139.89 | 139.99 | 140.08 | 140.24 | 141.12 | 140.57 |
| 4 | DS Crisparkle Dr (Cleopatra Reserve 1) | 134.53 | 134.60 | 134.61 | 134.63 | 134.64 | 134.65 | 135.04 | 134.40 |
| 5 | Cleopatra Reserve 2 | 133.32 | 133.40 | 133.44 | 133.47 | 133.48 | 133.51 | 134.17 | 133.16 |
| 6 | Cleopatra Reserve 3 | 131.38 | 131.57 | 131.64 | 131.64 | 131.66 | 131.69 | 132.36 | 131.33 |
| 7 | Cleopatra Reserve 4 | 128.70 | 129.49 | 129.57 | 129.55 | 129.58 | 129.60 | 130.21 | 129.35 |
| 8 | Thomas Acres Reserve | 126.49 | 126.78 | 127.33 | 127.59 | 127.71 | 127.79 | 128.46 | 127.60 |
| 10 | Rosemeadow Reserve 1 North | 121.97 | 122.50 | 122.64 | 122.87 | 122.95 | 123.11 | 123.92 | 123.06 |
| 11 | Rosemeadow Reserve 2 | 120.22 | 120.51 | 120.59 | 120.73 | 120.81 | 120.92 | 121.99 | 121.08 |
| 12 | Rosemeadow Reserve 3 | 118.32 | 118.73 | 118.82 | 118.98 | 119.08 | 119.19 | 120.60 | 119.46 |
| 15 | Demetrius Reserve | 139.68 | 139.93 | 140.30 | 140.52 | 140.62 | 140.69 | 141.39 | 140.45 |
| 16 | Octavia Reserve | 135.92 | 136.67 | 136.99 | 137.22 | 137.76 | 138.18 | 139.08 | 138.04 |
| 17 | Canidius Reserve | 134.93 | 135.43 | 135.51 | 135.87 | 135.95 | 136.04 | 136.85 | 135.86 |
| 20 | Haydon Park | 138.09 | 138.22 | 138.32 | 138.39 | 138.43 | 138.46 | 138.78 | 137.85 |
| 22 | US Julius Rd | 129.57 | 129.70 | 129.76 | 129.79 | 129.84 | 129.89 | 130.62 | 129.37 |
| 24 | Rosemeadow Reserve 1 South | 122.58 | 122.76 | 122.84 | 122.93 | 123.00 | 123.14 | 123.94 | 123.06 |
| 30 | Oswald Reserve | 132.01 | 132.30 | 132.40 | 132.41 | 132.44 | 132.48 | 133.03 | 132.22 |
| 31 | DS Oswald Reserve (US Appin Rd) | 131.78 | 132.00 | 132.28 | 132.29 | 132.37 | 132.42 | 132.99 | 131.93 |
| 32 | US Kellerman Dr | 129.39 | 129.73 | 129.93 | 130.22 | 130.35 | 130.64 | 131.84 | 130.50 |
| 45 | Georges River Rd | 125.78 | 126.57 | 126.91 | 127.16 | 127.44 | 127.51 | 129.12 | 128.72 |

The comparison was completed at the same 45 key location shown in **Plate 13** and is presented in **Table 15**. The comparison shows that the ARR2019 1% AEP flood levels compare favourably to the ARR1987 water levels at all locations. The average difference in levels is 0.01 metres with all but two locations agreeing to better than 0.1 metres. The locations where difference exceed 0.1 metres are detention areas where peak flood levels are more heavily influenced by volume rather than peak discharge (the ARR1987 assessment included one longer duration event which is producing greater runoff volumes relative to ARR2019. Nevertheless, this comparison indicates that the 1% AEP flood levels produced as part of the reasonable and are providing a realistic estimate of design flood behaviour.

Table 15 Comparison between ARR2019 and ARR1987 1% AEP Water Levels

| Location (refer Plate 13) | | Peak Water Level (mAHD) | | Difference (m) |
|---|---|---|---|---|
| | | ARR1987 | ARR2019 | |
| 1 | Haredale Park (US of Haredale St) | 142.90 | 142.91 | 0.01 |
| 2 | DS Haredale Rd (drainage depression) | 141.29 | 141.30 | 0.01 |
| 3 | Mandurama Reserve (US Crispsparkle Dr) | 140.39 | 139.99 | -0.40 |
| 4 | DS Crisparkle Dr (Cleopatra Reserve 1) | 134.62 | 134.63 | 0.01 |
| 5 | Cleopatra Reserve 2 | 133.45 | 133.47 | 0.02 |
| 6 | Cleopatra Reserve 3 | 131.63 | 131.64 | 0.01 |
| 7 | Cleopatra Reserve 4 | 129.55 | 129.55 | 0.00 |
| 8 | Thomas Acres Reserve | 127.68 | 127.59 | -0.09 |
| 9 | US Copperfield Dr | 124.22 | 124.24 | 0.02 |
| 10 | Rosemeadow Reserve 1 North | 122.82 | 122.87 | 0.05 |
| 11 | Rosemeadow Reserve 2 | 120.77 | 120.73 | -0.03 |
| 12 | Rosemeadow Reserve 3 | 119.03 | 118.98 | -0.05 |
| 13 | US Appin Rd | 118.07 | 118.04 | -0.03 |
| 14 | US St Helens Park Rd | 117.24 | 117.23 | -0.02 |
| 15 | Demetrius Reserve | 140.50 | 140.52 | 0.02 |
| 16 | Octavia Reserve | 137.24 | 137.22 | -0.03 |
| 17 | Canidius Reserve | 135.88 | 135.87 | -0.01 |
| 18 | Malvolla St at Desdemona St | 148.02 | 148.02 | 0.00 |
| 19 | Valentine Pl at Othello Ave | 141.58 | 141.59 | 0.01 |
| 20 | Haydon Park | 138.36 | 138.39 | 0.03 |
| 21 | US Anthony Drive | 133.11 | 133.15 | 0.03 |
| 22 | US Julius Rd | 129.77 | 129.79 | 0.02 |
| 23 | Thomas Rose Dr | 127.67 | 127.45 | -0.22 |
| 24 | Rosemeadow Reserve 1 South | 122.90 | 122.93 | 0.03 |
| 25 | Kellerman Dr at Heritage Heights Circuit | 135.58 | 135.55 | -0.04 |
| 26 | Ironside Ave | 118.47 | 118.46 | -0.01 |
| 27 | Fullerton Circuit | 133.13 | 133.15 | 0.02 |
| 28 | Parma Cres | 128.24 | 128.22 | -0.02 |
| 29 | Francesco Cres | 133.04 | 133.06 | 0.02 |
| 30 | Oswald Reserve | 132.40 | 132.41 | 0.01 |
| 31 | DS Oswald Reserve (US Appin Rd) | 132.29 | 132.29 | 0.00 |
| 32 | US Kellerman Dr | 130.13 | 130.22 | 0.09 |
| 33 | Brice Way | 131.07 | 131.06 | -0.01 |
| 34 | Kellerman Dr (Caspers Dome) | 138.30 | 138.31 | 0.01 |
| 35 | Karrabul Rd | 134.79 | 134.80 | 0.01 |
| 36 | Larapinta Cres | 128.91 | 128.93 | 0.02 |
| 37 | Larapinta Cres at Boongary St | 131.21 | 131.22 | 0.01 |
| 38 | Merino Cres | 130.59 | 130.59 | 0.00 |
| 39 | Douro Pl | 133.14 | 133.14 | 0.00 |
| 40 | Greengate Rd | 134.85 | 134.84 | -0.01 |
| 41 | Riverside Dr | 135.22 | 135.20 | -0.02 |
| 42 | Boonoke Pl | 127.81 | 127.80 | -0.01 |
| 43 | Riverside Dr at Davidson Pl | 135.85 | 135.85 | 0.00 |
| 44 | Peppin Cres | 133.18 | 133.19 | 0.01 |
| 45 | Georges River Rd | 127.05 | 127.16 | 0.11 |

## 5.5 Flood Hazard

Flood hazard defines the potential impact that flooding will have on vehicles, people and property across different sections of the floodplain. More specifically, it describes the potential for floodwaters to cause damage to property or loss of life/injury (Australian Government, 2014).

For this study, the variation in flood hazard across the study was defined using flood hazard vulnerability curves presented in Section 7.2.7 of Chapter 7 of Book 6 of 'Australian Rainfall & Runoff' (Ball et al, 2019). The hazard curves are reproduced in **Plate 14** and are also described in **Table 16**.

As shown in **Plate 14**, the hazard curves assess the potential vulnerability of people, cars and structures based upon the depth and velocity of floodwaters at a particular location. Therefore, peak depth, velocity and velocity-depth product outputs generated by the TUFLOW model were used to map the variation in flood hazard across the catchment based on the hazard criteria shown in **Plate 14** for each design flood. The resulting hazard category maps are shown in **Figures 18** to **24**.

Table 16 Description of Adopted Flood Hazard Categories (Geoscience Australia, 2016)

| Hazard Category | Description |
|---|---|
| H1 | Relatively benign flood conditions. Generally safe for vehicles, people and buildings. |
| H2 | Unsafe for small vehicles |
| H3 | Unsafe for vehicles, children and the elderly |
| H4 | Unsafe for vehicles and people of all ages & levels of mobility |
| H5 | Unsafe for vehicles and people. All building types vulnerable to structural damage. Some less robust building types vulnerable to failure |
| H6 | Unsafe for vehicles and people. All building types considered vulnerable to failure. |

The hazard maps indicate that during the 1% AEP flood, the flood hazard across most urban areas is predicted to remain at H2 or below. However, localised areas of some roads and detention basins are predicted to reach H5. In addition, some defined watercourses are predicted to experience up to H6 hazard.

During the PMF, many roads and urban overland flow paths would be exposed to a hazard of H4 or above. This indicates that cars and people would be exposed to a significant flood risk. The flood hazard across part sections of detention basins would also increase to H5 and H6 indicating highly hazardous/dangerous conditions.

It should be noted that flooding across most of the Campbelltown Southern Catchments study area is "flashy"/short duration flooding. As a result, the H5 and H6 hazard conditions are not predicted to last for extended periods of time. In the case of H6 hazard along roads/urban areas, the high hazard conditions are predicted to subside in less than 30 minutes at most locations.

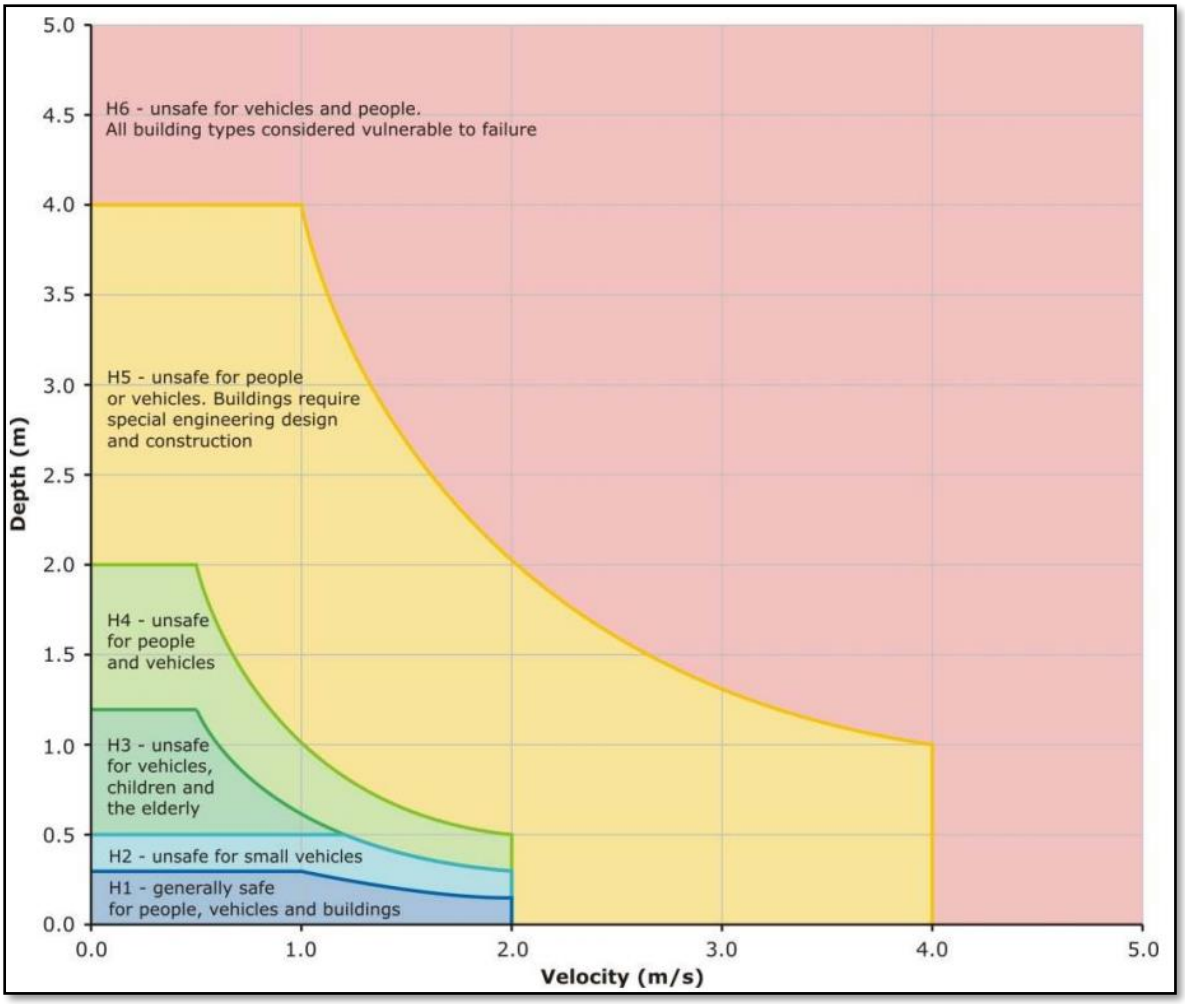



Plate 14 Flood hazard vulnerability curves (Ball et al, 2019)

## 5.6 Flood Emergency Response Classifications

In an effort to understand the potential emergency response requirements across different sections of the study area, flood emergency response precinct (ERP) classifications were prepared in accordance with the flow chart shown in **Plate 15** (AEMI, 2014). The ERP classifications can be used to provide an indication of areas which may be inundated or isolated during floods. This information, in turn, can be used to quantify the type of emergency response that may be required across different sections of the study area during future floods. This information can be useful in emergency response planning.

Each lot within the study area was classified based upon the ERP flow chart for the 1% AEP flood and PMF. This was completed using the TUFLOW model results, digital elevation model and a road network GIS layer in conjunction with proprietary software that considered the following factors:

- Whether evacuation routes get "cut off" by the depth of inundation (a 0.2 m depth threshold was used to define a "cut" road).
- Whether evacuation routes continuously rise out of the floodplain. This criterion is applied to the nearest cross street or road, assuming it is located outside of the PMF extent (i.e., floodplain).

- Whether properties become flooded. A property is considered "flooded" if more than 5% of the property is inundated by floodwaters. When a property is inundated by less than 5% of the total property area, it was considered to be "elevated".
- Indirect consequences are identified when the property is located completely outside of the flood extent. However, it is impacted by other external factors, such as roadways being cut by water which would prevent access.

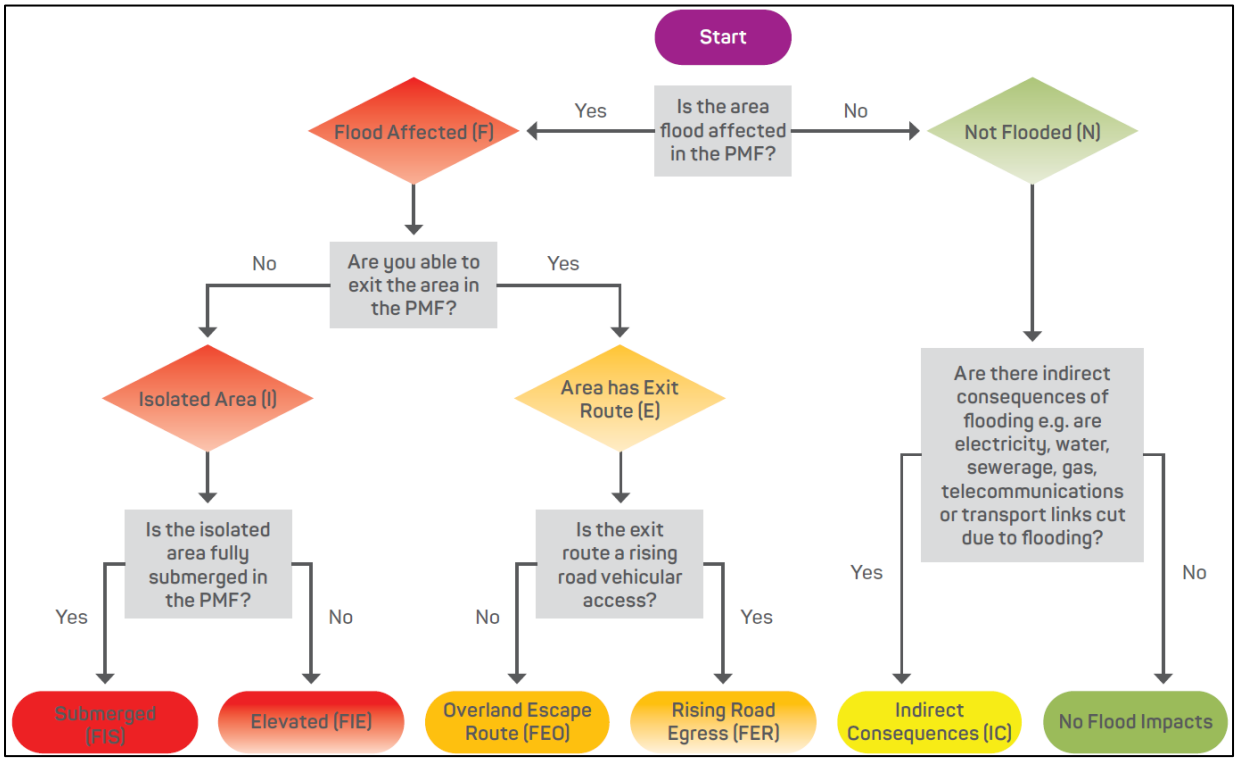



Plate 15 Flow Chart for Determining Flood Emergency Response Classifications (AEMI, 2014).

NOTE: FIS – Flooded, Isolated and Fully Submerged in Design Flood
FIE – Flooded, Isolated with an Area Elevated Above PMF
FEO – Flooded, Exit Route via Overland Escape (vehicular access cut but evacuation on foot may be possible)
FER – Flooded, Exit Route via Rising Road (evacuation routes grade up and away from floodwaters)
IC – Not Flooded, Indirect Consequences (e.g., access cut)

The resulting ERP classifications for the 1% AEP flood and PMF are provided in **Figures 25** and **26**. A range of other datasets were also generated as part of the classification process to assist Council and the SES. This includes roadway overtopping locations which are also included on **Figures 25** and **26**. The labels attached to each road overtopping point show the maximum water depth.

The emergency response classifications indicate that the most common classifications during the 1% AEP are:

- Indirect consequences which indicate properties are not flooded but access to or from the properties is cut
- Rising road areas: this classification indicates that evacuation routes grade up and out of the floodplain

During the PMF, much more of the study area fall under the 'flooded, isolated elevated' and 'flooded, isolated submerged' classification. These classifications indicate that evacuation is

lost early in the flood and each lot is eventually inundated. Consequently, a PMF would isolate and inundate a large number of properties and would present a significant emergency response requirement if evacuation is not complete early.

## 5.7 Hydraulic Categories

The NSW Government's *'Floodplain Development Manual'* (NSW Government, 2005) also characterises flood prone areas according to the hydraulic (i.e., flood function) categories presented in **Table 17**. The hydraulic categories provide an indication of the potential for development across different sections of the floodplain to impact on existing flood behaviour and highlights areas that should be retained for the conveyance of floodwaters.

Table 17 Qualitative and Quantitative Criteria for Hydraulic Categories

| Hydraulic Category | Manual Definition | Adopted Criteria* |
|---|---|---|
| **Floodway** | • those areas where a significant volume of water flows during floods<br>• often aligned with obvious natural channels and drainage depressions<br>• they are areas that, even if only partially blocked, would have a significant impact on upstream water levels and/or would divert water from existing flowpaths resulting in the development of new flowpaths.<br>• they are often, but not necessarily, areas with deeper flow or areas where higher velocities occur. | If not Flood Fringe or Flood Storage. |
| **Flood Storage** | • those parts of the floodplain that are important for the temporary storage of floodwaters during the passage of a flood<br>• if the capacity of a flood storage area is substantially reduced by, for example, the construction of levees or by landfill, flood levels in nearby areas may rise and the peak discharge downstream may be increased.<br>• substantial reduction of the capacity of a flood storage area can also cause a significant redistribution of flood flows. | If not Flood Fringe and:<br>**Drainage Areas:**<br>• D <= 2 m AND V <= (-0.3D + 0.8)<br>OR<br>• D >= 2 m AND V <= 0.2 m/s<br>**Urban Areas:**<br>• V <= 0.2 m/s |
| **Flood Fringe** | • the remaining area of land affected by flooding, after floodway and flood storage areas have been defined.<br>• development (e.g., filling) in flood fringe areas would not have any significant effect on the pattern of flood flows and/or flood levels. | **Drainage Areas:**<br>• V <= 2 m/s AND D <= (-40D + 6)<br>**Urban Areas:**<br>• V <= 2 m/s AND D <= (-40D + 6) |

NOTES: V = Velocity, D = Depth
*Hydraulic categories were only applied to areas subject to inundation (i.e., D > 0m)*
**The adopted criteria were developed specifically for the Bow Bowing / Bunbury Curran catchment only and may not be appropriate for any other localities.*

### 5.7.1 Adopted Hydraulic Categories

Unlike hazard categories, the *'Floodplain Development Manual'* (NSW Government, 2005) does not provide explicit quantitative criteria for defining hydraulic categories. This is because the extent of floodway, flood storage and flood fringe areas is typically specific to a particular catchment.

As discussed in Section3.2.4, Campbelltown City Council developed criteria for defining the extent of floodway, flood storage and flood fringe areas based on the depth and velocity of floodwater as well as the land use at a particular location (Catchment Simulation Solutions, 2011a). These criteria were considered appropriate for application across the current study area due to the uniformity of development type, stormwater design standards and topography relative to the Bow Bowing / Bunbury Curran Creek catchment. The criteria used to define each hydraulic category is summarised in **Table 17**. Graphical representations of the criteria listed in **Table 17** are also provided in **Plate 16** and **Plate 17**.

The velocity and depth results produced by the TUFLOW model for each design flood were combined with the criteria detailed in **Table 17** to produce hydraulic category maps. The resulting maps are shown in **Figures 27** to **33**.

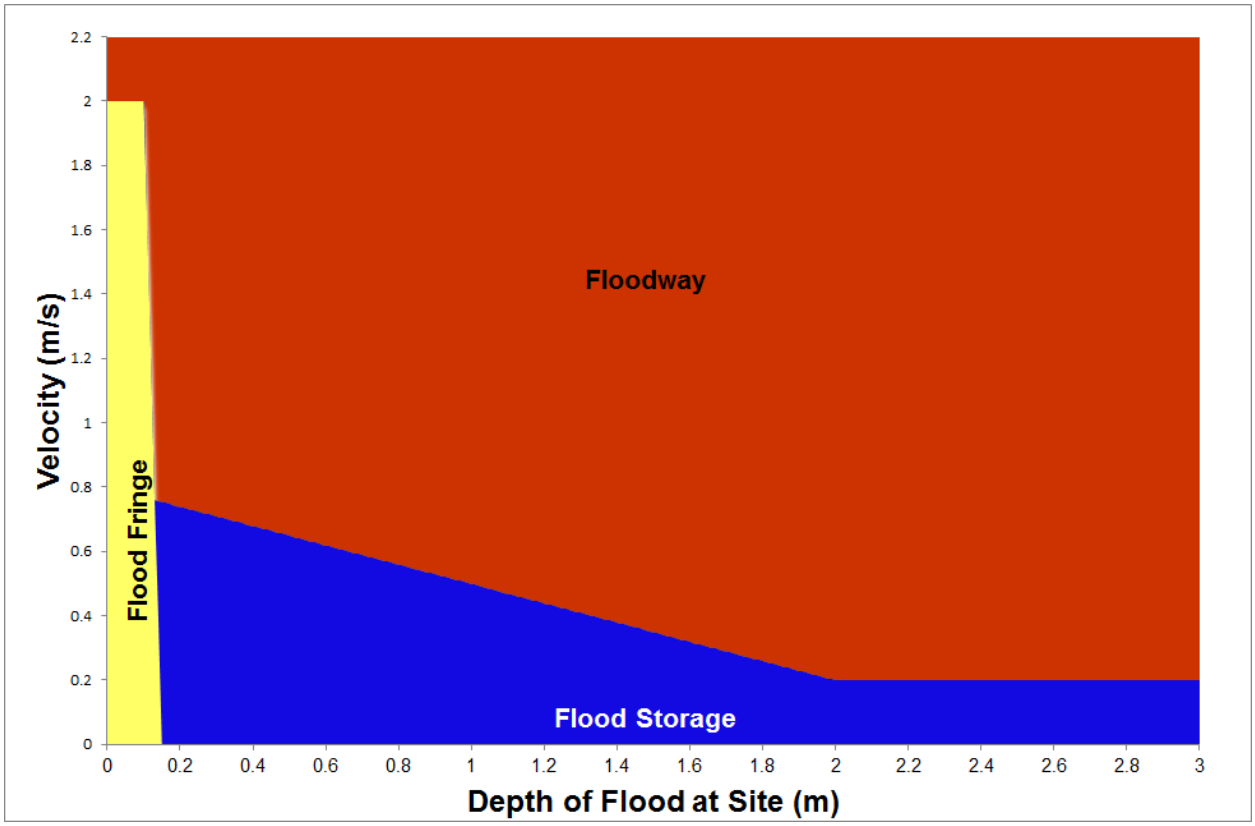



Plate 16 Adopted hydraulic category criteria for drainage areas

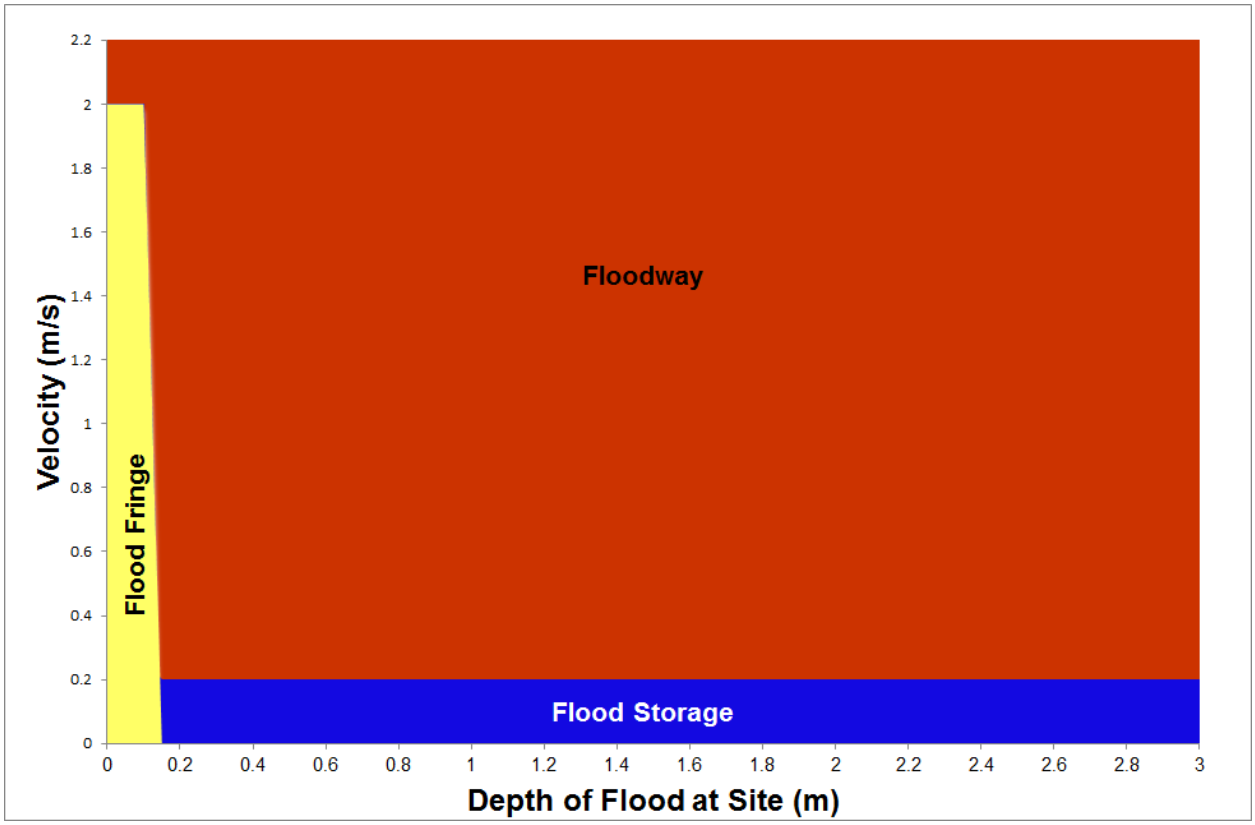



Plate 17 Adopted hydraulic category criteria for urban / non-drainage areas

# 6 Future Flood Assessment

## 6.1 Overview

The design flood results presented in the previous chapters have defined the nature and extent of the flood risk for existing topographic and development conditions. However, it is important to recognise that catchments are constantly evolving (e.g., increases in development/impervious areas) which could change the flood risk in the future. In addition, climate change has the potential to alter rainfall patterns which may also impact on current flood predictions.

Therefore, it is important to understand the potential impacts that future development as well as climate change may have on the existing flood risk across the study area. In this regard, additional climate change and future catchment development simulations were completed, and the results of these simulations are presented below.

## 6.2 Future Catchment Development

The following future development scenarios were assessed:

- Scenario 1 - Fully developed catchment with existing topographic conditions;
- Scenario 2 - Fully developed catchment with all developable areas elevated to above the peak 100 year ARI flood level.

The modifications that were completed to the hydrologic and hydraulic models to represent these scenarios and the results of the updated modelling are included in the following sections.

### 6.2.1 Scenario 1 - Fully developed catchment with existing topographic conditions

Scenario 1 incorporates development of the Campbelltown Southern Catchments to the full extent possible under Council's current LEP zoning. However, the impervious proportion across all residential zoned areas was increased by 5% to reflect knock down/rebuilds and construction of secondary dwellings/granny flats.

Campbelltown City Council also advised that a “land swap” is to be completed across parts of Airds. The land swap will see some areas that are currently zoned RE1 “upzoned” to R2, which will be compensated with some current R2 areas to be “down zoned” to RE1. The “upzoned” areas fall within a portion of Merino Reserve and the Tharawal Aboriginal Corporation that are contained within the study area while the areas to be “down zoned” fall outside of the current study area. Therefore, the land swap will result in a net increase in impervious areas within the study area and, was, therefore incorporated into the future catchment development assessment. The location of the lots to be converted from RE1 to R2 are shown in black in **Plate 16**.

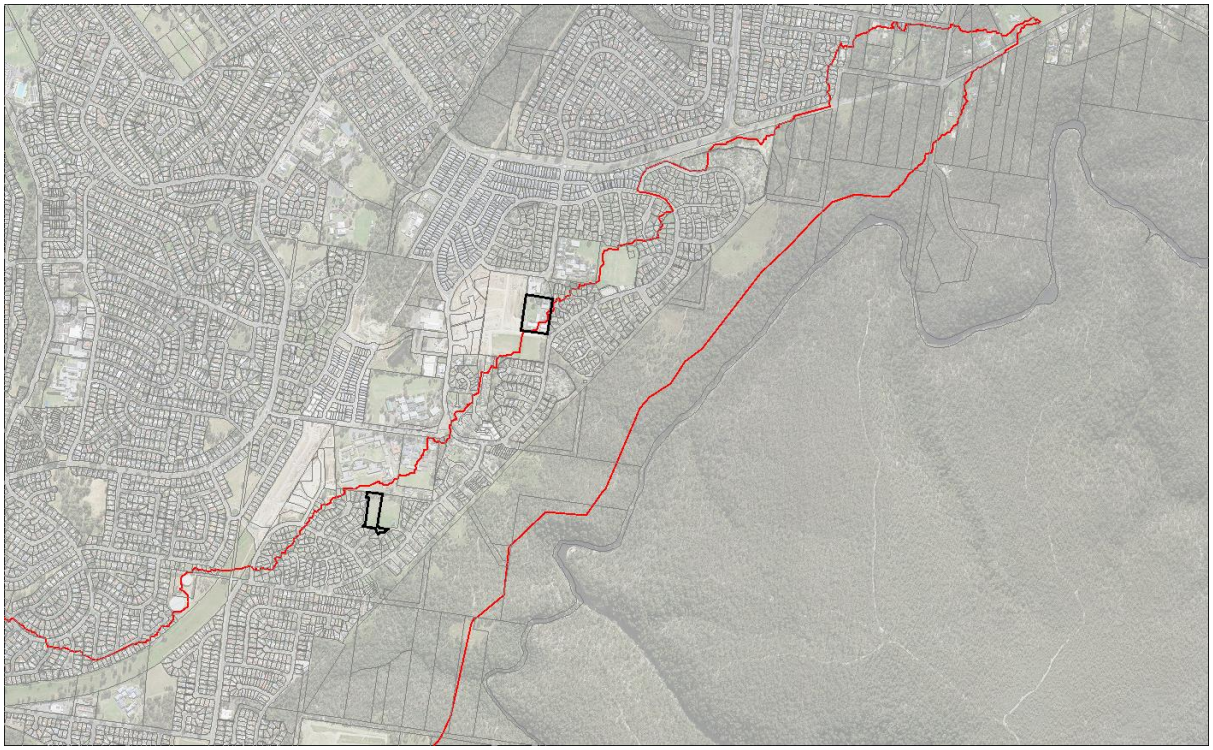


Plate 18 Location of lots for future land swap to be included as developed in the future catchment conditions simulations

Scenario 1 will reflect the increased runoff rates, volumes and peak discharges associated with increased impervious proportions across the study area, however, will not alter the topography at any location ensuring that all current flow paths are maintained. It also assumes that there will be no future mitigation works to minimise any increases in peak discharges and flood levels.

The XP-RAFTS model that was developed to represent existing conditions (refer Section 4.2) was updated to reflect the increased impervious areas and was used to re-simulate the 1% AEP flood. A complete listing of peak discharges for each subcatchment is provided in **Appendix G**. Peak 1% AEP discharges for existing conditions are also included for comparison.

As most of the areas suitable for development under Council's current LEP zoning are already developed, there is typically only opportunity for limited infill development and re-development of existing allotments. As a result, only small increases in peak 1% AEP discharges are predicted for future catchment conditions across most of the study area.

The TUFLOW model was then used to simulate the 1% AEP flood with the increased discharges associated with the future development. Peak floodwater depths and velocities were extracted from the results of the modelling and are presented in **Figure 34**. The predicted extent of inundation for existing conditions is also included on **Figure 34** for comparison.

Peak water levels were extracted from the results of the modelling and were compared against peak water flood levels for “base” design conditions. This allowed water level difference mapping to be prepared showing the magnitude of any change in water levels

associated with the increase in catchment development. The difference mapping is presented in **Figure 35**.

The results of the simulation indicate that the increases in runoff rates, volumes and peak discharges will typically produce small increases in peak 1% AEP floodwater levels across the Campbelltown Southern Catchments. However, the flood level increases are not predicted to exceed 0.06 metres, with changes less than 0.01 metres typical. As shown in **Figure 34**, increases of this magnitude are only predicted to cause very small changes in the current extent of inundation. Therefore, future catchment development is unlikely to have a significant adverse flood impact.

### 6.2.2 Scenario 2 - Fully developed catchment with all developable areas raised above the 1% AEP flood

Scenario 2 incorporates development across the Campbelltown Southern Catchments as per Scenario 1 discussed in the previous section. However, Scenario 2 also includes topographic modifications so that all potentially developable areas are raised to an elevation above the peak 1% AEP flood level.

Therefore, Scenario 2 will reflect the increased runoff rates, volumes and peak discharges associated with increased impervious proportions as well as topographic modifications such that all developable areas of land are elevated above the peak 1% AEP flood levels.

Scenario 2 applies the same hydrologic approach as Scenario 1. Therefore, no further modifications were completed to the XP-RAFTS model developed for Scenario 1. However, Scenario 2 incorporates topographic updates so that all potentially developable areas are raised to an elevation above the peak 1% AEP flood. Therefore, all areas located within commercial, industrial, residential, and special use zones were assumed to be elevated above the peak 1% AEP flood in the TUFLOW model.

A review of the fill areas was completed relative to existing drainage easements and existing overland flow paths. In instances where the fill areas were traversed by an existing overland flow path or drainage easement, an area was preserved for the conveyance of flood flows. That is, areas that currently serve as an overland flow path/drainage easement were preserved as part of the Scenario 2 assessment for the conveyance of future flood flows. The extent of the adopted 'fill' areas is shown in **Figure 36**.

The updated TUFLOW model was used to simulate the 1% AEP flood with the increased discharges as well as the topographic modifications. Peak floodwater depths and velocities were extracted from the results of the modelling and are presented in **Figure 36**. The predicted extent of inundation for existing conditions is also included on **Figure 36** for comparison.

Flood level difference mapping was also prepared to quantify the impact that future catchment runoff and terrain changes is predicted to have on "existing" design flood levels across the catchment. The difference mapping is presented in **Figure 37**.

The results of the simulation indicate that the filling in association with increased runoff is predicted to generate more substantial changes to peak 1% AEP flood levels across the

Campbelltown Southern Catchments. A maximum increase in peak flood level of about 0.3 metres is predicted in Pinaroo Crescent at Bradbury, however, the magnitude of the changes is typically less than 0.05 metres across most of the study area.

## 6.3 Climate Change Analysis

Climate change refers to a significant and lasting change in weather patterns arising from both natural and human induced processes. The Office of Environment and Heritage's *'Practical Consideration of Climate Change'* states that climate change is expected to have adverse impacts on rainfall intensities in the future.

Although there is uncertainty associated with the impact that climate change may have on rainfall, it was considered important to provide an assessment of the potential impact that climate change may have on the current flood risk across the study area. The interim climate change factors published in Australian Rainfall and Runoff (Ball et al, 2019) indicates that a 9.5% increase in rainfall is the best estimate of likely rainfall increases by 2090 under Representative Concentration Pathway scenario 4.5 (RCP4.5) (i.e., greenhouse gas emissions are reduced in the future). Under RCP 8.5 conditions (i.e., current greenhouse gas emissions increase in the future), rainfall intensities would likely increase by 19.7% by 2090 (refer **Plate 19**).

Interim Climate Change Factors

| | RCP 4.5 | RCP6 | RCP 8.5 |
|---|---|---|---|
| 2030 | 0.869 (4.3%) | 0.783 (3.9%) | 0.983 (4.9%) |
| 2040 | 1.057 (5.3%) | 1.014 (5.1%) | 1.349 (6.8%) |
| 2050 | 1.272 (6.4%) | 1.236 (6.2%) | 1.773 (9.0%) |
| 2060 | 1.488 (7.5%) | 1.458 (7.4%) | 2.237 (11.5%) |
| 2070 | 1.676 (8.5%) | 1.691 (8.6%) | 2.722 (14.2%) |
| 2080 | 1.810 (9.2%) | 1.944 (9.9%) | 3.209 (16.9%) |
| 2090 | 1.862 (9.5%) | 2.227 (11.5%) | 3.679 (19.7%) |

Plate 19 Adopted rainfall increase for climate change simulation (Geoscience Australia, 2019)

The rainfall increases were applied to the current 20% AEP and 1% AEP rainfall depths as well as the PMP and the revised rainfall was routed through the XP-RAFTS model. The revised design discharges were extracted from the results of the modelling and are included in **Appendix G**. Peak discharges for the "base" conditions are also included in **Appendix G** for comparison.

The peak discharge comparison indicates that increases in rainfall will increase peak discharges throughout the study area. The peak 1% AEP discharges are predicted to increase by 11%, on average, if rainfall intensities were to increase by 9.5%. If rainfall intensities were to increase by 19.7%, peak 1% AEP discharge could be expected to increase by 22%, on average, at key locations.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 20% AEP and 1% AEP floods as well as the PMF with the rainfall increases. Peak water levels were extracted from the results of the modelling and were compared against peak water levels for "base" design conditions. This allowed water level difference mapping to be prepared showing the magnitude of change in water levels associated with the predicted increases in rainfall. The difference mapping is presented in **Figures 38** to **43**.

**Figure 39** shows that the 9.5% increase in rainfall scenario is predicted to increase 1% AEP flood levels by at least 0.1 metres along the major watercourses and within detention basins with localised increases approaching 0.2 metres in some areas. In areas of shallow, overland flooding, the increases in 1% AEP flood levels generally do not exceed 0.05 metres.

**Figure 42** shows the 19.7% increase in rainfall scenario is predicted to commonly increase existing 1% AEP flood levels by 0.2 metres across defined watercourses and basins. Localised flood level increases of 0.4 metres are predicted upstream of the Kellerman Drive culvert crossing of Mansfield Creek.

If a 9.5% increase in rainfall was to occur in the future, it would effectively turn a future 1% AEP flood into the equivalent of a present day 0.5% AEP flood. If a 19.7% increase in rainfall was to occur, it would equate to a future 1% AEP flood being the equivalent of a present day 0.2% AEP flood. Or to look at it another way, a future 1% AEP flood would likely have a future frequency of more than a 2% AEP.

Accordingly, the outcomes of the climate change simulations show that increases in rainfall associated with climate change have the potential to increase the severity of flooding across the study area.

# 7 SENSITIVITY ANALYSIS

## 7.1 Overview

Computer flood models require the adoption of parameters that are not necessarily known with a high degree of certainty or are subject to variability. Each of these parameters can impact on the results generated by the model.

As outlined in Section 4, computer models are typically validated using recorded rainfall, stream flow and/or flood mark information. Validation is achieved by adjusting the parameters that are not known with a high degree of certainty until the computer model is able to reproduce the recorded flood information. Validation is completed to ensure the adopted model parameters are generating realistic estimates of flood behaviour.

Unfortunately, no historic flood information was available to allow validation of the computer models. Therefore, it was important to understand how any uncertainties and variability in model input parameters may impact on the results produced by the model. Therefore, a sensitivity analysis was undertaken to establish the sensitivity of the results generated by the computer model to changes in model input parameter values. The outcomes of the sensitivity analysis are presented below.

## 7.2 Hydrologic Model Inputs

### 7.2.1 Initial / Storm Loss

An analysis was undertaken to assess the sensitivity of the results to variations in antecedent wetness conditions (i.e., the dryness or wetness of the catchment prior to the design storm event). A catchment that has been saturated prior to a major storm will have less capacity to absorb rainfall. Therefore, under wet antecedent conditions, there will be less "initial loss" of rainfall and consequently more runoff. For example, much of the flooding across Sydney in 2022 was contributed by the saturated state of each catchment (a result of the quick succession of storm front and the lack of time for the catchment to "dry").

The variation in antecedent wetness conditions was represented by altering the "storm" rainfall loss in the XP-RAFTS model. This involved altering the probability neutral rainfall losses discussed in Section 5.2.3 by ±20% and re-running the 1% AEP storms. The revised 1% AEP discharges were extracted from the results of the modelling and are included in **Appendix H**. Peak 1% AEP discharges for the "base" conditions are also included in **Appendix H** for comparison.

The peak discharge comparison indicates that increasing the storm loss (reflecting a dryer catchment) decreases peak design discharges at most locations. More specifically, peak 1% AEP discharges are predicted to reduce by about 4%.

Reducing the storm loss (reflecting a wetter catchment) is predicted to generate very small increases in peak design discharges at most locations. Peak 1% AEP discharges are

predicted to increase by an average of 1%, although localised increases of more than 10% are predicted at a small number of locations.

Overall, the peak discharges do not appear to be particularly sensitive to the adopted storm losses.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 1% AEP flood with the modified storm losses. Peak water levels were extracted from the results of the modelling and were compared against peak flood levels for "base" design conditions. This allowed water level difference mapping to be prepared showing the magnitude of any change in water levels associated with the change in initial loss values. The difference mapping is presented in **Figures 44** and **45**. Decreases in "design" flood levels associated with the parameter change are shown in shades of green/blue and increases in flood levels are shown in shades of yellow/red.

The difference mapping shows that altering the initial loss value will generate only small changes in 1% AEP flood levels. The changes generally do not exceed 0.02 metres and are generally concentrated in detention areas. Therefore, the hydraulic model results do not appear to be sensitive to the adopted initial loss.

### 7.2.2 Continuing Loss Rate

An analysis was also undertaken to assess the sensitivity of the results generated by the XP-RAFTS model to variations in the adopted continuing loss rates. Accordingly, the continuing loss rates within the XP-RAFTS model were changed from the "design" values of 0.96 mm/hr (pervious areas) and 0 mm/hr (impervious areas) to:

- Increased Continuing Loss Rates: 1.46 mm/hr for pervious areas and 0.5mm/hr for impervious areas.
- Decreased Continuing Loss Rates: 0.46 mm/hr for pervious areas and 0mm/hr for impervious areas.

The modified continuing loss rates were applied to the XP-RAFTS model and were used to re-simulate the 1% AEP storms. The revised 1% AEP discharges were extracted from the results of the modelling and are included in **Appendix H**.

The peak discharge comparison indicates that changing the continuing loss rate generally produces only small changes in peak 1% AEP discharges. More specifically, the peak 1% AEP discharges are not predicted to change by more than 1%. Accordingly, the hydrologic model does not appear to be particularly sensitive to changes in the adopted continuing loss rate.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 1% AEP flood with the modified continuing loss rates. Peak water levels were extracted from the results of the modelling and were used to prepare flood level difference mapping which is presented in **Figures 46** and **47**.

The results of the sensitivity analysis show that the TUFLOW model is relatively insensitive to changes in continuing loss rates. More specifically, **Figures 46** and **47** shows that only small (i.e., generally no greater than 0.01m) localised changes in 1% AEP flood levels are predicted with the modified continuing loss rates.

Therefore, it can be concluded that any uncertainties associated with the adopted continuing loss rates are unlikely to have a significant impact on the results generated by the TUFLOW model.

### 7.2.3 Temporal Pattern

As discussed in Section 5.2.4, ten different temporal patterns were applied to each design storm frequency and duration. A temporal pattern that provided a peak discharge roughly in the middle of the range was adopted as part of the 'base' design flood simulations. However, it was considered important to gain an understanding of how variations in the rainfall temporal pattern (i.e., how the rainfall is distributed over time) may impact on the results generated by the model. Therefore, additional simulations were completed with temporal patterns that most commonly generated peak discharges at the "upper" and "lower" end of the discharge range at each of the focus locations shown in **Plate 12**.

A review of the temporal patterns was completed to identify the temporal pattern that most commonly produced the highest and lowest peak 1% AEP discharges. This review yielded the selection of temporal patterns in **Table 18**.

Table 18 Adopted storms for temporal pattern sensitivity simulations of the 1% AEP event

| Scenario | Storm Durations and Temporal Pattern ID | | | | |
|---|---|---|---|---|---|
| | 10 mins | 20 mins | 45 mins | 60 mins | 120 mins |
| Low TP | 4356 | 4427 | 4531 | 4555 | 4615 |
| Adopted TP | 4354 | 4429 | 4533 | 4558 | 4611 |
| High TP | 4366 | 4432 | 4535 | 4360 | 4613 |

**Appendix H** summarises the peak discharges at each subcatchment that are generated using the temporal patterns listed above. The 'base' peak discharges are also listed for comparison.

The comparison presented in **Appendix H** shows that the temporal patterns that produce lower peak discharges will generate peak 1% AEP discharges that are 9% lower (on average) respectively relative to the base peak discharges. Adopting a temporal pattern that produces high peak discharges is predicted to increase peak 1% AEP discharges by 16%, on average.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 1% AEP flood with the modified temporal patterns. Flood level difference mapping was prepared to display the impacts of the temporal pattern modifications and are presented in **Figures 48** and **49**.

The difference mapping shows that adopting a lower temporal pattern can reduce 1% AEP flood levels by up to 0.2 metres. However, the reductions were most commonly less than 0.05 metres. It was noted that the lower temporal patterns did not reduce flood levels at all locations, with some areas exposed to small flood level increases of up to 0.02 metres.

Adopting the higher temporal patterns produced flood level increases of over 0.2 metres in isolated locations, however, increases of up to 0.1 metres are more common. A small number of flood level reductions of 0.01 metres were also observed.

Accordingly, the peak design discharges and water level results are sensitive to the adopted temporal pattern. However, it should be acknowledged that the chance of the 1% AEP rainfall occurring in conjunction with the "worst case" temporal pattern is likely to be rarer than 1% AEP. Accordingly, it is considered that the adopted temporal patterns better maintain AEP neutrality.

### 7.2.4 Catchment Storage

The XP-RAFTS model includes a representation of catchment storage and the associated attenuation of flows that this storage provides as runoff moves across each subcatchment. By default, a "storage coefficient multiplication factor" (often referred to as "Bx") of 1.0 is applied. To gain an understanding of how changes to catchment storage may impact on the design flood results, additional sensitivity simulations were complete using a Bx factor of 0.8 and 1.2 reflecting a 20% reduction and increase respectively of the XP-RAFTS model storage.

**Appendix H** summarises the peak discharges at each subcatchment that are generated using the modified storage multiplication factors. The 'base' peak discharges are also listed for comparison.

The comparison presented in **Appendix H** shows that reducing storage by 20% produces peak discharges that are 3% higher (on average) relative to the base peak discharges. Increasing the catchment storage by 20% produces 1% AEP peak discharges that are 2% lower, on average.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 1% AEP flood with the modified storage factor. Flood level difference mapping was prepared to display the impacts of the storage multiplication factor modifications and are presented in **Figures 50** and **51**.

The difference mapping shows that applying a 20% reduction in catchment storage in will commonly increase 1% AEP flood levels by 0.01 metres within main conveyance areas and some storage areas, with isolated increases of up to 0.05 metres. Applying a 20% increase in storage will result in reductions in peak 1% AEP flood levels of 0.01 metres within main conveyance and some storage areas.

Accordingly, the peak design discharges and water level results are not considered sensitive to the adopted storage multiplication factor.

### 7.2.5 PMP Spatial Distribution

As discussed in Section 5.2.1 and presented in **Appendix E**, deriving a probable maximum precipitation (PMP) estimate requires application of ellipses to describe the spatial distribution of rainfall. In accordance with the Bureau of Meteorology's *'Generalised Short Duration Method'* (GSDM) (Bureau of Meteorology, 2003), the PMP ellipses where arranged such that the smallest ellipse enclosed the overall catchment area. However, there is potential for a PMP-type rainfall event to be distributed in a difference manner (e.g., the most intense rainfall could be focussed on the northern sections of the study area rather

than the southern section, where the ellipses were concentrated as part of the current study).

To understand what impact the distribution of PMP rainfall would have on peak PMF discharges, levels and extents, revised PMP calculations were prepared based on the ellipses shown in **Plate 20**.

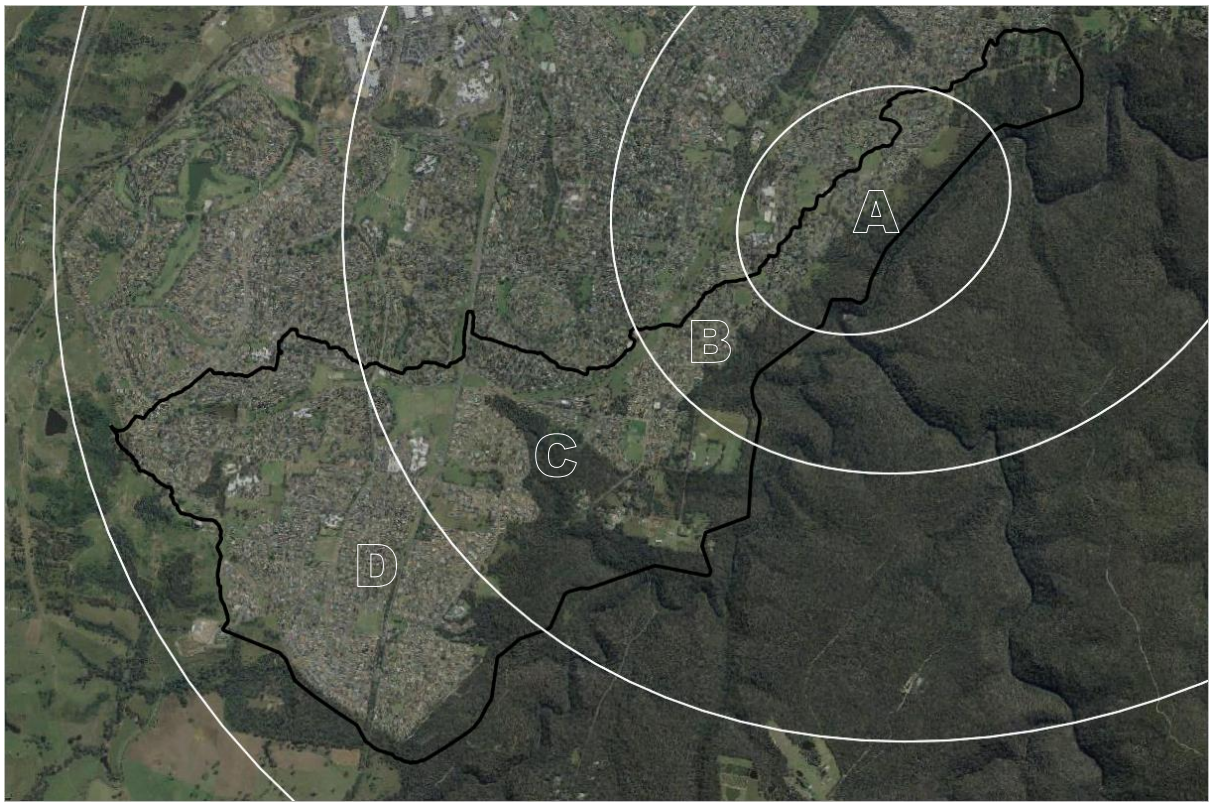



Plate 20 Adopted ellipses for PMP spatial distribution sensitivity assessment

The revised PMP rainfall estimates were applied to the XP-RAFTS hydrologic model and the model was used to simulate the conversion of rainfall into runoff for the PMP events. **Appendix H** summarises the peak discharges at each subcatchment based on the modified PMP spatial distribution. The 'base' peak discharges are also listed for comparison.

The results of the revised simulations showed that the modified PMP rainfall would result in peak PMF discharges across the northern sections of the study area commonly increasing by 10-20%. Peak discharges across the southern catchment areas reduced by a similar amount. On average, PMF discharges were predicted to be about 10% lower with the modified distribution. This is mainly associated with the larger southern catchments experiencing lower peak discharges and, therefore, biasing the subcatchment averaged discharges. The critical storm duration did not vary significantly indicating the catchment responses was relatively unaffected by the spatial distribution.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the PMF with the modified spatial distribution. Flood level difference mapping was prepared to display the impacts of the modified spatial distribution and are presented in **Figures 52**.

The difference mapping shows that across the northern catchment areas, peak PMF levels will generally increase by no more than 0.05 metres across the urbanised sections of the catchment (although increases approach 0.1 metres upstream of some buildings). In the more incised natural waterways, the differences approach +0.2 metres. However, because of the incised nature of the terrain, this water level increase does not translate to a significant increase in flood extent.

Across the southern catchment areas, flood level reductions are predicted. The reductions are generally no greater than 0.05 metres, although approach 0.1 metres in some detention areas. Again, the largest differences (i.e., -0.2 metres) are concentrated in the incised channels well downstream of the urbanised areas.

The outcomes of the sensitivity assessment show that the adopted PMP distribution does have the potential to increase and decreases peak PMF discharges and levels across the study area. However, the most significant differences are contained to incised channel areas that are located away from development and differences across the urbanised areas are generally less than 0.05 metres. Therefore, the adopted PMF estimates are considered reasonable.

## 7.3 Hydraulic Model Inputs

### 7.3.1 Roughness Coefficients

Manning's "n" roughness coefficients are used to describe the resistance to flow afforded by different land uses and surfaces across the catchment. However, they can be subject to variability (e.g., vegetation density in the summer would typically be higher than the winter leading to higher Manning's "n" values). Therefore, additional analyses were completed to quantify the impact that any uncertainties associated with Manning's "n" roughness values may have on predicted design flood behaviour.

The TUFLOW model was updated to reflect a 20% increase and a 20% decrease in the adopted design Manning's "n" values and additional 1% AEP simulations were completed with the modified "n" values (no changes to hydrology were completed as part of this assessment). Peak flood levels were extracted from the results of the modelling and were used to prepare flood level difference mapping, which is presented in **Figures 53** and **54**.

In general, the changes in 1% AEP flood levels associated with increases and decreases in Manning's "n" values are predicted to be less than 0.05 metres, but localised flood level increases/decreases of 0.2 metres are predicted, primarily along heavily vegetated watercourses. It is noted that reducing "n" values will typically reduce flood levels. However, there are some areas where the more rapid response of rainfall is predicted to generate localised increases in flood levels, such as detention areas. Conversely, the increase in "n" values will typically increase flood levels, but the additional attenuation will result in flood level reductions across some locations (again, typically detention areas).

Although localised changes in flood level of up to ±0.2 metres are predicted at isolated locations, the change in flood level across most of the study area, including across urban

areas, are predicted to be much smaller. As a result, it is considered that the overall model is relatively insensitive to changes in Manning's 'n' values.

### 7.3.2 Structure Losses

Loss coefficients were included for each culvert to represent hydraulic losses through each structure. To gain an understanding of how uncertainty in the loss coefficients may impact on the design flood results, revised simulations were completed with the loss coefficients increased and decreased by 20%.

The updated versions of the model were used to re-simulate the 1% AEP flood with the modified loss coefficients. Peak water level results were extracted and used to prepare flood level difference mapping which is enclosed in **Figures 55** and **56**.

The results of the simulations show that altering the loss coefficient by ±20% is predicted to produce small, localised impacts on peak flood levels, particularly upstream of large drainage infrastructure. In all cases the flood levels are not predicted to change by more than 0.05 metres. Therefore, any uncertainty in the representation of structure losses does not have a significant influence on the model results.

### 7.3.3 Blockage

As discussed in Section 5.3.2, blockage factors were applied to all bridges, culverts and stormwater inlets as part of the design flood simulations. However, as it is not known which structures will be subject to what percentage of blockage during any flood, additional TUFLOW simulations were completed to determine the impact that alternate blockage scenarios would have on flood behaviour. Specifically, additional simulations were undertaken for the following blockage scenarios:

- Low Blockage: No blockage assigned to stormwater pits or culverts.
- High Blockage: Complete blockage assigned to all stormwater pits and all culvert with a diagonal dimension less than 3m.

Peak flood levels were extracted from the results of the modelling and were used to prepare flood level difference mapping, which is presented in **Figures 57** and **58**.

The results indicate that changes in 1% AEP flood levels as a result of the low blockage scenario generally produce changes of < ±0.1 metres along main conveyance and storage areas, with decreases typical upstream of structures, and increases typical downstream of structures. Little to no impact is predicted across urban areas as a result of the reduced stormwater pit blockage, primarily associated with the stormwater system already flowing at capacity with design blockage applied during a large storm event (such as the 1% AEP flood).

Conversely, with complete blockage applied to stormwater pits and culverts with diagonal dimension less than 3m, large and widespread increases in peak flood level are predicted. Design flood levels are predicted to increase by over 0.8 metres upstream of Kellerman Drive (near Bernard Place) which is driven by the elevated embankment at this location. Flood increases elsewhere are generally not predicted to exceed 0.4 metres, with increases of < 0.1 metres typical in urban areas as a result of the blockage of the stormwater pits.

Some commensurate decreases in water level downstream of structures are predicted and associated with the "damming" effect provided by the embankment around blocked structures.

The results of the blockage sensitivity analysis do show that the model results are sensitive to variations in blockage in the vicinity of major hydraulic structures, particularly if complete blockage of structures occurs. It also indicates that blockage of the stormwater pits can also have a noteworthy impact on local flood levels. This outcome emphasises the need to ensure key drainage infrastructure and bridges/culverts are well maintained (i.e., debris is removed on a regular basis).

# 8 FLOOD PLANNING INFORMATION

## 8.1 Overview

Appropriate land use planning is one of the most effective measures available to manage the flood risk (particularly to control future risk but also to reduce existing flood risks as redevelopment occurs). A full review of land use planning including appropriate zoning, policies and planning/building controls is typically undertaken as part of the floodplain risk management study.

Nevertheless, *'Australian Disaster Resilience Handbook 7 Managing the Floodplain: A Guide to Best Practice in Flood Risk Management in Australia'* (ADR Handbook 7) (AIDR, 2017) recommends using the best available information to manage the flood risk at all times. Therefore, if a flood study is available that contains relevant information (such as this one), there is no need to wait for the floodplain risk management study before this flood information is used to inform land-use planning. Accordingly, the following chapter outlines the process that was employed to develop flood planning category constraint mapping to assist in informing future land-use planning decisions.

In addition, the results of the flood study can be used to determine the flood planning area (i.e., the area within which flood-related development controls apply). Development of the flood planning area and the associated identification of flood control lots can help to ensure that areas with a higher flood exposure/risk are identified and, should new development or re-development occur, will help ensure appropriate controls are implemented such that the flood exposure/risk is not increased.

## 8.2 Flood Planning Area

Flood Planning Levels (FPLs) are an important tool in the management of flood risk and are derived by adding a freeboard to the Defined Flood Event (most commonly the 1% AEP flood). The FPLs can then be combined with topographic information to establish the Flood Planning Area (FPA). The FPL and FPA can then be used to assist in managing the existing and future flood risk by:

- Setting design levels for mitigation works (e.g., levees); and
- Identifying land where flood-related development controls apply to ensure that new development is undertaken in such a way as to minimise the potential for flood impacts on people and property.

The "freeboard" is a factor of safety that is used to account for uncertainties in deriving the planning flood levels (e.g., wave action, blockage). Campbelltown City Council currently specifies a variable freeboard as documented in Section 4.5 of '*Engineering Design for Development'* (2014) for habitable developments as follows:

- Flow depth <0.3m = 0.3m freeboard
- Flow depth >0.3m = 0.5m freeboard

However, before application of the freeboard to the 1% AEP flood level results, it was acknowledged that some sections of the catchment are only exposed to very shallow water depths, and this would not constitute a significant flood risk or result in property damage. Therefore, a filter was first applied to the raw 1% AEP flood level results to remove areas where there was a low flood risk while ensuring all areas with a more significant flood risk were retained. In this regard, all areas that satisfied one of the following criteria were retained as part of the FPA calculations:

- 1% AEP depths > 0.15m
- 1% AEP hazard > H1

The variable freeboards were added to the filtered 1% AEP water level results documented in Section 5.4.2 based on the associated water depth to produce two preliminary flood planning level grids. The flood planning level grids were then extended laterally until they intersected higher ground. The higher of the two flood planning level grids was adopted as the final flood planning level for a particular location. The resulting flood planning area is shown in **Figure 59**.

## 8.3 Flood Planning Constraint Categories

Flood planning constraint category mapping was prepared based on guidance provided in the *'Australian Disaster Resilience Guideline 7-5: Flood Information to Support Land-use Planning'* (AIDR 2017). This guideline delineates flood liable land into one of four major "constraint" categories (with several subcategories) based upon key flooding constraints such as flood hazard, flood function and emergency response. The resulting categories can serve to inform land use planning activities. The guideline notes that the categorisation is intended to support community/precinct scale decisions where flow paths and flood extents can be readily defined and was not developed to support change of land use or development at the lot/site scale.

The flood planning constraint categories (FPCC) are summarised in **Table 19**. **Table 19** also summarises how the categories are defined along with the associated planning implication/considerations. In general, a FPCC categorisation of "1" implies a more flood constrained section of land relative to FPCC category "2", and so on.

The categories use a "Defined Flood Event" (DFE), which is analogous to the "planning flood" (i.e., 1% AEP event). It also requires consideration of flood impacts in events rarer than the DFE. The 0.5% AEP event was selected for this purpose.

The information contained in **Table 19** was used with the flood modelling outputs (most notably the flood hazard, hydraulic category and emergency response mapping) to prepare the FPCC map shown in **Figure 60**. Also included on **Figure 37** are the current land use zones to gain an appreciation of how the current zoning aligns with the FPCC. The proportion of each land zone that falls within each FPCC was also extracted and is presented in **Table 20**.

Table 19 Flood Planning Constraint Categories (AIDR, 2017)

| FPCC | Sub-Category | Constraint | Implications | Consideration |
|---|---|---|---|---|
| 1 | A | Flow conveyance and storage areas in the DFE | Development or changes to topography within flow conveyance areas and flood storages areas affect flood behaviour, which will alter flow depth or velocity in other areas of the floodplain. Changes can negatively affect the existing community and other property | The majority of developments and uses have adverse impacts on flood behaviour. Consider limiting uses and development to those compatible with maintaining flood function |
| | B | H6 hazard in the DFE | Hazardous conditions considered unsafe for vehicles and people. All building types are considered vulnerable to structural failure | The majority of developments and uses are vulnerable to failure in this flood hazard category. Consider limiting developments and uses to those that are compatible with flood hazard H6 |
| 2 | A | Flow conveyance area in events larger than the DFE | Flow conveyance areas may develop during an event larger than the DFE. People and buildings in these areas may be affected by flowing and dangerous floodwaters | Consider compatibility of developments and users with rare flood flows in this area |
| | B | H5 hazard in the DFE | Hazardous conditions are considered unsafe for vehicles and people, and all buildings are vulnerable to structural damage | Many uses and developments will be vulnerable to flood hazard. Consider limiting new uses to those compatible with flood hazard H5. Consider treatments such as filling (where this will not affect flood behaviour) to reduce the hazard to a level that allows standard development conditions to be applied. Alternatively, consider a requirement for special development conditions |
| | C | Isolated and submerged areas (low flood island or low trapped perimeter in 1%AEP event) | Area becomes isolated by floodwater or impassable terrain, with loss of evacuation route to the community evacuation location. The area will become fully submerged with no flood-free land in an extreme event, with ramifications for those who have not evacuated and are unable to be rescued | Consequences of isolation and inundation can be severe. Consider the consequences of:<br>• evacuation difficulty or inundation of the area on the development and its users, which may include limitations on land use, or on land use that has occupants who are more vulnerable to disruption and loss<br>• the development on emergency management planning for the existing community, including the need for additional treatments<br>• the development on community flood recovery<br>• disruption or loss of the development on the users and wider community |
| | D | Isolated but not submerged areas (high flood island or high trapped perimeter in 1%AEP event) | Area becomes isolated by floodwater or impassable terrain, with loss of an evacuation route to a community evacuation location. The area has some land<br>elevated above the extreme flood level. Those not evacuated may be isolated with limited or no services, and will need rescue or resupply until floods recede and roads are passable | Some developments and their users may be vulnerable to disruption or loss. Consider:<br>• the consequences of disruption or loss of the development on the users and the wider community<br>• limiting land use, or land use that has occupants who are more vulnerable to disruption and loss<br>• additional emergency management treatment requirements<br>• issues associated with the level of support required during a flood, particularly for long-duration flood events |
| | E | H6 hazard in events rarer than the DFE | Hazardous conditions may develop in an event rarer than the DFE, which may have implications for the development and its occupants | Consider the need for additional development conditions to reduce the effect of flooding on the development and its occupants |

| FPCC | Sub-Category | Constraint | Implications | Consideration |
|---|---|---|---|---|
| 3 | - | Outside FPCC 2 but generally below the DFE plus freeboard | Hazardous conditions may exist creating issues for vehicles and people. Structural damage to buildings that meet building standards unlikely because of flooding | Standard land-use and development controls aimed at reducing damage and the exposure of the development to flooding in the DFE are likely to be suitable. Consider the need for additional conditions for emergency response facilities, key community infrastructure and vulnerable users |
| 4 | - | Outside of FPCC 3 but within the PMF extent | Emergency response may rely on key community facilities such as emergency hospitals, emergency management headquarters and evacuation centres operating during an event. Recovery may rely on key utility services being able to be readily re-established after an event | Consider the need for conditions for emergency response facilities, key community infrastructure and land uses with vulnerable users |

The FPCC categories presented in **Figure 59** show that current land use zones are broadly compatible with the level of flood exposure. More specifically, the more highly constrained land (i.e., FPCC 1) typically coincides with areas of open space (i.e., zones RE1 and RE2 or on roadways), which is considered to be a compatible land use. The only notable exceptions are:

- The major overland flow path that extends from Fitzgibbon Ln towards Rosemeadow Reserve (refer **Figures 59.5** and **59.6**) where FCC 1A extends across multiple commercial/critical properties such as a service station, dental care centre, and the Rosemeadow Fire and Rescue NSW station.
- FCC 1A also extends through residential properties between Peppin Crescent and Georges River Road (just east of Tiverton Way).

The FCC 1A categorisation indicates that any flow obstructions have the potential to impact on flood behaviour. Therefore, care will need to be exercised if any new/redevelopment occurs in these areas to ensure existing flow paths and storage areas are retained. For example, any filling or construction of buildings that would serve to obstruct flow or remove storage volume should be avoided and the potential to install “open” fencing could be explored.

Table 20 Land use zones falling within each FPCC

| Zone | FPCC | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | | 2 | | | | | 3 | 4 | Not Impacted |
| | A | B | A | B | C | D | E | | | |
| B1 | 4% | 0% | 0% | 0% | 0% | 1% | 0% | 3% | 12% | 79% |
| E3 | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 12% | 87% |
| E4 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 98% |
| R2 | 2% | 0% | 0% | 0% | 0% | 1% | 0% | 0% | 17% | 79% |
| RE1 | 9% | 0% | 0% | 0% | 0% | 1% | 0% | 4% | 8% | 77% |
| RE2 | 9% | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 0% | 89% |
| RU2 | 10% | 0% | 0% | 0% | 0% | 0% | 0% | 2% | 12% | 76% |
| SP2 | 5% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 12% | 83% |

FPCC 4 is the most dominant category impacting on the study area. In general, this should not present significant issues for most development types. However, care will need to be exercised for particularly sensitive or important land uses (e.g., hospitals, aged care facilities, preschools).

# 9 CONCLUSION

This report documents the outcomes of investigations completed to quantify flood behaviour across the Campbelltown Southern Catchments study area. It provides information on design flood discharges, levels, depths and velocities as well as hydraulic and flood hazard categories for a range of design floods.

Flood behaviour across the study area was defined using a hydrologic computer model of the catchments draining through the study area as well as a two-dimensional hydraulic model. The hydrologic computer model was developed using the XP-RAFTS software and the hydraulic model was developed using the TUFLOW software.

a

The models were used to simulate the design 20% AEP, 5% AEP, 2% AEP, 1% AEP, 0.5% AEP and 0.2% AEP floods based upon the 2019 version of Australian Rainfall and Runoff (Geoscience Australia). The Probable Maximum Flood (PMF) was also simulated. The following conclusions can be drawn from the results of the investigation:

- Flooding can occur from a variety of different storm and rainfall durations. The worst-case flooding across the urban sections of the study area most commonly occurs as a result of rainfall bursts over a 10 minute duration. Peak water levels within detention basins most commonly occur as a result of longer storm durations of up to 6 hours. Accordingly, flooding across the study area may be produced by relatively short, high intensity thunderstorms through to longer rainfall events that may be generated by east coast lows.
- The flood modelling shows that floodwaters are typically contained close to each of the main watercourses, detention basins as well as within roadways. However, there are several locations where floodwaters are predicted to travel overland through private property.
- Inundation of over 700 properties is predicted at the peak of the 1% AEP flood (out of a total of 6,965 properties located within the study area). This includes potential inundation of 161 habitable buildings.
- The study area incorporates an extensive stormwater system as well as a number of culverts. The results of a blockage sensitivity analysis show that the severity of flooding can be significantly increased due to blockage. This highlights the importance of routine maintenance on this infrastructure, particularly immediately after a flood.
- A number of roadways are predicted to be overtopped during the 1% AEP flood. Many of these roadways would be unsafe to drive through for at least 30 minutes.

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# Appendix A

## BBBC Creek XP-RAFTS Model Review

# 1 HYDROLOGIC MODEL REVIEW

A review of the XP-RAFTS hydrologic models that were developed for the Bow-Bowing Bunbury Curran (BBBC) Creek's flood studies were completed to:

- Identify key model inputs and modelling approaches and carry those same inputs and approaches into the current study to ensure consistency with the BBBC Creeks flood studies, where appropriate.
- Identify where new modelling technology and approaches may be more appropriate for application as part of the current study to ensure it follows modern best practice.

The outcomes of the hydrologic model review are summarised on the following pages. It includes a summary of the review finding for key hydrologic modelling components and recommendations on whether modifications are considered necessary as part of the current study.

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| **GENERAL** | | |
| Software and Version | • XP-RAFTS: version 2013 Service Pack 2 | • Consider use of newer version of RAFTS (2018.1.1). It should also be noted that the XP-RAFTS software is no longer supported by Innovyze. However, this will not prevent use of the software as part of the current study. |
| Terminology | • Average Recurrence Interval (ARI) used throughout modelling | • ARR2019 suggests adopting modified terminology when referring to design events (as documented in Section 2.2.5 of Chapter 2 of Book 1). It is recommended that the ARR2019 terminology is adopted for the current study. |
| **MODEL SETUP** | | |
| Subcatchment Delineation | • CatchmentSIM used to delineate subcatchments<br>• 2 metre DEM used, which is considered adequate to capture roadway centrelines and major urban topographic features<br>• Typical subcatchment size of 1-1.5 $km^2$ in urban areas which is sufficiently detailed to capture major urban overland flow paths. Larger subcatchments of 2-3 km2 were typically adopted in less urbanised areas.<br>• Subcatchment outlets includes at major hydraulic controls such as roadways, and flow path confluences | • Subcatchments appear to be suitably detailed for an urban overland flow study. No changes necessary. |
| Subcatchment Slope | • CatchmentSIM used to assign average vectored slope to subcatchments based on underlying DEM | • No changes necessary. |
| Impervious Areas | • Pervious and impervious areas defined using Council LEP zoning information | • Adopted approach provide a conservative estimate of impervious areas. Although this does not necessarily |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| | • Imperviousness assumes full development to the extent possible under the current zoning<br>• Separate impervious and pervious sub-areas applied to each subcatchment to allow differing roughness and losses to be applied | reflect current conditions, it does assist in "future proofing" the study.<br>• ARR2019 places greater emphasis on effective impervious areas rather than total impervious areas adopted as part of the BBC Creek flood studies. Consideration should be given to breaking up each subcatchment into pervious, indirectly connected impervious and directly connected impervious areas. |
| Hydrologic Roughness | • Hydrologic roughness defined based on Council LEP zonings.<br>• Hydrologic roughness parameters are considered reasonable for application for the various land uses defined | • No changes necessary. |
| Link Parameterisation | • CatchmentSIM used to calculate time delay link lags based on modified Bransby Williams equation | • No changes necessary. |
| Detention Basins | • Formal detention basins included with stage-storage and stage-discharge relationships<br>• Farm dams assumed to be full and not contribute any storage or attenuation | • No changes considered necessary.<br>• No farm dams located within study area, no not applicable. |
| **DESIGN STORM SIMULATIONS** | | |
| Design Rainfall Estimates | • Design rainfall IFDs has been adopted as per Campbelltown City Council guidelines for the two relevant rainfall zones, "Campbelltown" and "Glenfield". | • IFD values appropriate for application as per ARR1987 guideline. However, revised design rainfall estimates have been published by the BoM and offer improved rainfall estimates based on ~30 years of additional rainfall |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| | • Design rainfall for the PMP has been calculated based on the BOM published GSDM approach. Separate PMP calculations were completed based on PMP storm centred on the BBBC catchment area, as well as each local study area.<br>• Design events considered include: 5, 20, 50, 100, 500, 1000 ARI events, and PMF | records. New design rainfall estimates should be adopted as part of the current study. |
| Rainfall Losses | • The initial-continuing loss model was adopted which is recommended in both ARR1987 and ARR2019<br>• Initial losses:<br>○ For events equal to or more frequent than 1%AEP, initial rainfall loss of 15mm applied to pervious areas and an initial loss of 1mm applied to impervious areas.<br>○ For events less frequent than 1%AEP event) initial loss of 0mm applied to pervious and impervious surfaces<br>• Continuing loss rate:<br>○ Pervious areas: 2.5mm/hr<br>○ Impervious areas: 0 mm/hr | • Adopted loss approach consistent with ARR1987. And impervious losses are considered to be generally appropriate. However, ARR2019 requires application of probability neutral burst losses from the ARR data hub for pervious surfaces for each storm. It is recommended that the updated ARR2019 losses are applied as part of the current study .<br>• It is recommended that specific losses for indirectly connected impervious areas are adopted in additional to directly connected impervious areas and pervious areas as per *ARR2019*.<br>• Data hub continuing loss rate of 0.96mm/hr should be adopted for pervious surfaces. in preference to 2.5mm/hr unless calibration/validation demonstrates a high loss rate is more suitable. |
| Temporal Patterns/Critical Duration | • Temporal patterns defined as per ARR1987 (i.e., two sets of temporal patterns for <30 year ARI and > 30 year ARI)<br>• The GSDM PMP temporal pattern was adopted to define temporal distribution of rainfall for PMP<br>• Critical duration calculated as the storm duration generating the highest peak discharge | • If procedures from ARR2019 are adopted, point temporal patterns from the ARR data hub should be adopted. Ensemble bins of at least 10 temporal patterns are provided for each storm frequency and duration. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| | | • Critical duration calculated as the duration that produces the highest average discharges based on consideration of the 10 temporal pattern for each AEP/duration.<br>• Representative temporal patterns are then selected for each critical duration. The representative temporal pattern is selected as the temporal pattern that produces a peak discharge very close to/slightly above the average or median peak discharge. |
| Aerial Reduction Factors | • No aerial reduction factors were applied | • No changes considered necessary as overland flooding is a key focus (i.e., contributing catchment areas generally do exceed 1 $km^2$). |

# Appendix B

## BBBC Creek TUFLOW Model Review

# 1 HYDRAULIC MODEL REVIEW

A review of the TUFLOW hydraulic models that were developed for the various Bow-Bowing Bunbury Curran (BBBC) Creek's flood studies were completed to identify key model attributes and approaches that could be carried forward into the current study. At the same time, the review also identified areas where new modelling approaches and technologies may afford improved estimates of flood behaviour.

The outcomes of the hydraulic model review are summarised on the following pages. It includes a summary of the review finding for key hydrologic modelling components and recommendations on whether modifications are considered necessary as part of the current study. It should be noted that the review is general in nature and aims to identify features that are consistent to all models developed as part of the BBBC Creek flood studies.





| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| **GENERAL** | | |
| Software and Version | • TUFLOW 2016-04-AD-Dev-iSP-w64<br>• Classic Solution Scheme | • More recent releases of TUFLOW are available that provide a range of improvements including HPC which affords improved simulation times and sub-grid sampling (SGS) which provides more detailed description of floodplain storage and flow conveyance. |
| • **MODEL SETUP** | | |
| TUFLOW Control and other files | • Folder structure is in accordance with the TUFLOW User Manual 2018-03.<br>• Run files include *.tcf , *.ecf, *.tgc and *.tbc.<br>• A *.tef defining the events, storm durations<br>• A *.tmf is included to assign land use roughness | • Control and output files follow recommended format/layout. If ARR2019 is adopted for use, an additional *.trd file may be required to define the variable initial losses, temporal patterns with storm durations. |
| Timestep | • Timesteps specified in *.ecf and *.tcf files<br>• 2D Model timestep = 0.5 seconds.<br>• 1D Timestep = 0.25 seconds<br>• All timesteps suitable for adopted grid size of 2m | • No changes necessary. Although TUFLOW HPC incorporates adaptive timestep feature which can be beneficial when simulating large floods where instabilities can be a problem. |
| • **MODEL CONFIGURATION** | | |
| Model Configuration<br>(1D, 2D or 1D/2D?) | • 1D/2D<br>○ Broader catchment represented in 2D | • No changes necessary. Although new SGS feature may allow a 2D representation of creeks. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| | ○ 1D representation of major creek channels<br>○ 1D stormwater network<br>○ 1D culverts and bridges | |
| 2D Grid Size | 2 metre grid size which is considered appropriate for an urban catchment | No changes necessary. |
| **EXTENT OF MODEL** | | |
| 2D Model Extent | Active 2D domain extent set by 2d_code layer covering entire catchment | No changes necessary. |
| 1D Model Extent | 1d stormwater network, bridges, culverts, and major open channels. | No changes necessary. |
| **BASE TERRAIN DATA (2D)** | | |
| Source of DEM data | DEM developed from LiDAR collected in 2011 | More recent LiDAR datasets (e.g., 2019) are available to more reliably define contemporary topographic conditions. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| Supplementary data<br>(e.g., additional survey data acquired for the project, changes to terrain due to roadworks, development, etc)<br><br>Improved definition of gullies and ridges | • 2d_zshp layers included to modify terrain in areas where underground carparks or temporarily excavated areas occur (ie: removing an otherwise localised trapped low point)<br>• 2d_zshp layer included to enforce natural low points around some culvert/stormwater headwalls and retention basins<br>• 2d_zshp features added along minor swales to enforce flow paths<br>• 2d_zshp features added along key hydraulic features such as road embankments and detention basin walls | • No changes necessary. |
| • **1D CROSS-SECTION DATA** | | |
| Source of cross-section data | • Cross section data extracted from a highly detailed, 0.5 metre DEM, with extraction locations chosen based on adequate ground strike data. | • No changes necessary. However, as discussed, 2D representation of channels may be appropriate with SGS with a similarly detailed DEM. |
| • **1D MODEL CONFIGURATION** | | |
| 1D model network | • 1d channels included along major watercourses.<br>• As previously mentioned, 2d_zshp gully lines/points are used for smaller swales and drainage depressions | • No changes necessary. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| 1D Water Level Lines | • 1d_wll included to spatially define the 1D results<br>• Water Level Line points subsequently read in to overwrite the automatically created points to enhance display of depth results within the 1d domain, particularly along the edge of the 1d domain | • No changes necessary. |
| **HYDRAULIC STRUCTURES** | | |
| General | • Hydraulic structures included within model as 1d elements, including culverts and bridges. | • No changes necessary. |
| Culverts – Losses | • Entry/exit losses = default 0.5/1.0<br>• Height/Width contraction loss = 0.6/0.9<br>• Consistent with TUFLOW default values | • No changes necessary. |
| Bridges - Form Losses | • Manually calculated form loss applied to account for losses associated with bridge openings and pier losses | • No changes necessary. |
| Blockage | • Blockage applied to structures (culverts/bridges) based upon Council blockage policy, that is:<br>○ 50% blockage of pipe culverts with diameter < 3 metres, and rectangular culverts with diagonal dimension < 3 metres | • Suggest reviewing Council blockage factors against blockage factors calculated using revised ARR2019 procedures to confirm suitability. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| | ○ 0% blockage of culverts with dimensions exceeding the above dimensions | |
| **STORMWATER NETWORK** | | |
| Representation | The TUFLOW model includes a representation of the stormwater drainage system as 1D elements | No changes necessary. |
| 1D/2D Connections | Stormwater pits represented as "Q" type 1D nodes which allow unique inflow relationships developed as part of the BBBC Creek Pit Inlet Database to be applied for different pit types and reflects the variation in pit capacity based on pit attributes such as grate size and lintel length. | No changes necessary. |
| Blockage | Blockage is accounted for as per Council's standard blockage factors, viz:<br>○ 20% blockage of on-grade pits,<br>○ 50% blockage of sag pits | Suggest reviewing Council blockage factors against blockage factors calculated using ARR2019 procedures to confirm suitability. |
| **LINKAGES BETWEEN 1D AND 2D DOMAINS** | | |
| 1D/2D Connections | SX boundary used to connect 1D stormwater network and culverts to the 2D domain.<br>SX points used for small width 1d elements and SX lines used for wider elements to connect to multiple cells. | No changes necessary. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| | • HX lines used to connect 1D channels to adjoining 2D domains. 2D cells falling within 1D domain deactivated to ensure conveyance is not "double counted" | |
| **INITIAL CONDITIONS** | | |
| Set up appropriate initial conditions for each event to be modelled. | • 2d IWL set within permanent waterbodies (farm dams) at the level of the spillway<br>• No IWL added to formal detention basins (i.e., all detention basins assumed to be "dry" at start of simulation) | • No changes necessary. |
| **BOUNDARY CONDITIONS** | | |
| Flow boundary conditions | • Inflows to the TUFLOW model have been defined using the various XP-RAFTS models. These are distributed to the surface of stormwater pits (when present within the subcatchment) or to the lowest elevation location within the subcatchment (when stormwater pits are not present) | • Applying flows to stormwater pits can results in over-attenuation of flows as a resulting of "double routing" of flows. Suggest applying all flows at lowest point in subcatchment providing subcatchment delineation is suitably detailed (i.e., headwater subcatchments <1km$^2$). |
| Downstream boundary conditions | • 2d HT (water level / stage hydrograph) boundaries are applied to the downstream most model (i.e., Glenfield/Macquarie Fields). It was assumed that a flood of equivalent severity was occurring in the Georges River at the same time as the BBBC Creek catchment (e.g., 1% AEP Georges River flood occurring at the same time as a 1% AEP. | • Study area is typically well elevated above Georges River, so consideration of Georges River influence not required as part of current study. HQ boundary considered appropriate for the current study. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| | • 2d HQ (Manning's equation boundaries) are utilised where flow continues across land at the downstream boundary location (where a downstream boundary exists away from the river). | |
| • **FLOW OBSTRUCTIONS** | | |
| Buildings | • Buildings have been included in the model using a 2d_zshp layer which elevates the building footprint by 0.3 metres above the LiDAR derived DEM elevation. This provides a 100% blockage for depths up to 0.3 metres around the building. Although appropriate for the "older" sections of the LGA, most buildings within the Southern Catchments area comprise floor levels that are elevated only 0.15m above ground level. Therefore, building representation should be updated to better reflect local conditions<br>• A Manning's "n" value of 1.0 has been adopted for building footprints which is intended to reflect the ability for water to enter buildings once the water depths exceed 0.3m but still reflect the significant impediment to flow afforded by walls, doors etc. but considered appropriate to reflect the significant impediment to flow afforded by buildings, but still account for storage of flood water within buildings, if depths were to exceed 0.3 metres around the building. | • Elevations within building footprints to be elevated by 0.15m rather than 0.3m to better reflect local catchment conditions. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| Fences | • Fences are included in the model as a layered flow constriction layer to represent the impediment to flow afforded and better represent localised impacts. All fences were assumed to be 0.5m high and afforded 75% blockage. A form loss coefficient of 0.2 was included to represent hydraulic losses as water is forced through fence openings | • No changes necessary. |
| • **MODEL PARAMETERS** | | |
| Roughness (Manning's 'n') values for 1d channels | • Roughness has been applied to 1D cross-sections via a materials ID. This allows the roughness to be varied laterally. | • No changes necessary. |
| Roughness (Manning's 'n') values assigned in 2d material layers | • A default material type reflecting grass (Manning's 'n' = 0.035) is applied<br>• Material types are then modified using the same LEP zoning polygons used to parameterise the hydrologic model.<br>• A number of additional GIS layers are read in to provide greater detail or alterations where necessary, such as concrete channels and car parks<br>• Twelve (12) roughness (Manning's n) values are assigned within the 2D domain:<br>○ Buildings (n = 1.00)<br>○ Rural (n = 0.050)<br>○ Industrial (n = 0.025)<br>○ Open Space (n = 0.030) | • Additional detail required to better delineate between parking spots and internal access roads and the differing impediment to flow across car parking areas. |

| ITEM | REVIEW OBSERVATIONS | RECOMMENDED CHANGES |
|---|---|---|
| | ○ Trees (n = 0.060)<br>○ Dense Trees (n = 0.080)<br>○ Waterbodies (n = 0.040)<br>○ Carparks (n = 0.100, depth varying)<br>○ Concrete (n = 0.015)<br>○ Rock (n = 0.040)<br>○ Area Under Construction (new release areas) (n = 0.022)<br>○ Roads (n = 0.020)<br>• A review of the carpark roughness indicates it is likely over-stating roughness in areas where cars would not be parked. Therefore, additional detail required to delineate between parking spots and internal access roads | |

# Appendix C

## XP-RAFTS Model Inputs

## XP-RAFTS INPUT PARAMETERS - Southern Catchments

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 1.01 | 1 | 0.59 | 2.48 | 0 | 0.030 |
| 1.01 | 2 | 1.30 | 2.48 | 100 | 0.015 |
| 1.02 | 1 | 0.18 | 2.47 | 0 | 0.030 |
| 1.02 | 2 | 0.88 | 2.47 | 100 | 0.015 |
| 1.03 | 1 | 0.09 | 3.30 | 0 | 0.030 |
| 1.03 | 2 | 0.63 | 3.30 | 100 | 0.015 |
| 1.04 | 1 | 0.38 | 4.20 | 0 | 0.030 |
| 1.04 | 2 | 1.88 | 4.20 | 100 | 0.015 |
| 1.05 | 1 | 0.23 | 2.50 | 0 | 0.030 |
| 1.05 | 2 | 1.05 | 2.50 | 100 | 0.015 |
| 1.06 | 1 | 0.14 | 3.14 | 0 | 0.030 |
| 1.06 | 2 | 0.69 | 3.14 | 100 | 0.015 |
| 1.07 | 1 | 0.06 | 2.75 | 0 | 0.030 |
| 1.07 | 2 | 0.40 | 2.75 | 100 | 0.015 |
| 1.08 | 1 | 3.20 | 1.68 | 0 | 0.030 |
| 1.08 | 2 | 2.17 | 1.68 | 100 | 0.015 |
| 1.09 | 1 | 0.46 | 4.35 | 0 | 0.030 |
| 1.09 | 2 | 1.56 | 4.35 | 100 | 0.015 |
| 1.10 | 1 | 0.21 | 4.33 | 0 | 0.030 |
| 1.10 | 2 | 0.95 | 4.33 | 100 | 0.015 |
| 1.11 | 1 | 0.17 | 1.95 | 0 | 0.030 |
| 1.11 | 2 | 0.48 | 1.95 | 100 | 0.015 |
| 1.12 | 1 | 0.07 | 3.42 | 0 | 0.030 |
| 1.12 | 2 | 0.18 | 3.42 | 100 | 0.015 |
| 1.13 | 1 | 0.13 | 2.58 | 0 | 0.030 |
| 1.13 | 2 | 0.35 | 2.58 | 100 | 0.015 |
| 1.14 | 1 | 0.33 | 7.79 | 0 | 0.030 |
| 1.14 | 2 | 0.77 | 7.79 | 100 | 0.015 |
| 1.15 | 1 | 0.07 | 0.65 | 0 | 0.030 |
| 1.15 | 2 | 0.38 | 0.65 | 100 | 0.015 |
| 1.16 | 1 | 0.77 | 4.64 | 0 | 0.030 |
| 1.16 | 2 | 0.90 | 4.64 | 100 | 0.015 |
| 1.17 | 1 | 0.72 | 2.52 | 0 | 0.030 |
| 1.17 | 2 | 0.54 | 2.52 | 100 | 0.015 |
| 1.18 | 1 | 1.77 | 2.00 | 0 | 0.030 |
| 1.18 | 2 | 0.76 | 2.00 | 100 | 0.015 |
| 1.19 | 1 | 3.09 | 1.84 | 0 | 0.030 |
| 1.19 | 2 | 1.94 | 1.84 | 100 | 0.015 |
| 1.20 | 1 | 2.43 | 2.87 | 0 | 0.030 |
| 1.20 | 2 | 1.20 | 2.87 | 100 | 0.015 |
| 1.21 | 1 | 0.51 | 3.20 | 0 | 0.030 |
| 1.21 | 2 | 1.73 | 3.20 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 1.22 | 1 | 0.69 | 0.10 | 0 | 0.030 |
| 1.22 | 2 | 2.18 | 0.10 | 100 | 0.015 |
| 1.23 | 1 | 0.56 | 4.10 | 0 | 0.030 |
| 1.23 | 2 | 1.16 | 4.10 | 100 | 0.015 |
| 1.24 | 1 | 0.28 | 4.65 | 0 | 0.030 |
| 1.24 | 2 | 2.03 | 4.65 | 100 | 0.015 |
| 1.25 | 1 | 0.43 | 7.26 | 0 | 0.030 |
| 1.25 | 2 | 1.93 | 7.26 | 100 | 0.015 |
| 1.26 | 1 | 0.79 | 7.82 | 0 | 0.030 |
| 1.26 | 2 | 0.93 | 7.82 | 100 | 0.015 |
| 1.27 | 1 | 2.56 | 4.99 | 0 | 0.030 |
| 1.27 | 2 | 0.46 | 4.99 | 100 | 0.015 |
| 1.28 | 1 | 2.11 | 6.30 | 0 | 0.030 |
| 1.28 | 2 | 0.14 | 6.30 | 100 | 0.015 |
| 1.29 | 1 | 1.97 | 8.61 | 0 | 0.030 |
| 1.29 | 2 | 0.11 | 8.61 | 100 | 0.015 |
| 1.30 | 1 | 3.04 | 14.63 | 0 | 0.030 |
| 1.30 | 2 | 0.58 | 14.63 | 100 | 0.015 |
| 1.31 | 1 | 3.57 | 11.96 | 0 | 0.030 |
| 1.31 | 2 | 0.71 | 11.96 | 100 | 0.015 |
| 1.32 | 1 | 1.77 | 18.46 | 0 | 0.030 |
| 1.32 | 2 | 0.69 | 18.46 | 100 | 0.015 |
| 1.33 | 1 | 5.07 | 11.45 | 0 | 0.030 |
| 1.33 | 2 | 0.49 | 11.45 | 100 | 0.015 |
| 1.34 | 1 | 2.58 | 19.31 | 0 | 0.030 |
| 1.34 | 2 | 2.28 | 19.31 | 100 | 0.015 |
| 1.35 | 1 | 4.16 | 16.06 | 0 | 0.030 |
| 1.35 | 2 | 0.71 | 16.06 | 100 | 0.015 |
| 1.36 | 1 | 2.99 | 17.62 | 0 | 0.030 |
| 1.36 | 2 | 0.33 | 17.62 | 100 | 0.015 |
| 2.01 | 1 | 0.48 | 4.08 | 0 | 0.030 |
| 2.01 | 2 | 0.69 | 4.08 | 100 | 0.015 |
| 3.01 | 1 | 0.53 | 4.61 | 0 | 0.030 |
| 3.01 | 2 | 0.69 | 4.61 | 100 | 0.015 |
| 3.02 | 1 | 0.32 | 4.11 | 0 | 0.030 |
| 3.02 | 2 | 1.12 | 4.11 | 100 | 0.015 |
| 4.01 | 1 | 0.99 | 5.80 | 0 | 0.030 |
| 4.01 | 2 | 0.54 | 5.80 | 100 | 0.015 |
| 5.01 | 1 | 0.26 | 5.89 | 0 | 0.030 |
| 5.01 | 2 | 0.68 | 5.89 | 100 | 0.015 |
| 6.01 | 1 | 0.14 | 4.27 | 0 | 0.030 |
| 6.01 | 2 | 0.93 | 4.27 | 100 | 0.015 |
| 7.01 | 1 | 0.52 | 4.05 | 0 | 0.030 |
| 7.01 | 2 | 1.21 | 4.05 | 100 | 0.015 |
| 8.01 | 1 | 0.42 | 4.50 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 8.01 | 2 | 1.01 | 4.50 | 100 | 0.015 |
| 8.02 | 1 | 0.42 | 4.49 | 0 | 0.030 |
| 8.02 | 2 | 1.68 | 4.49 | 100 | 0.015 |
| 8.03 | 1 | 0.31 | 3.71 | 0 | 0.030 |
| 8.03 | 2 | 1.42 | 3.71 | 100 | 0.015 |
| 8.04 | 1 | 0.30 | 4.04 | 0 | 0.030 |
| 8.04 | 2 | 0.44 | 4.04 | 100 | 0.015 |
| 8.05 | 1 | 0.41 | 3.72 | 0 | 0.030 |
| 8.05 | 2 | 1.64 | 3.72 | 100 | 0.015 |
| 8.06 | 1 | 0.22 | 1.33 | 0 | 0.030 |
| 8.06 | 2 | 0.94 | 1.33 | 100 | 0.015 |
| 9.01 | 1 | 0.22 | 3.96 | 0 | 0.030 |
| 9.01 | 2 | 0.96 | 3.96 | 100 | 0.015 |
| 10.01 | 1 | 0.31 | 5.12 | 0 | 0.030 |
| 10.01 | 2 | 1.31 | 5.12 | 100 | 0.015 |
| 11.01 | 1 | 0.18 | 7.40 | 0 | 0.030 |
| 11.01 | 2 | 0.80 | 7.40 | 100 | 0.015 |
| 12.01 | 1 | 0.24 | 4.40 | 0 | 0.030 |
| 12.01 | 2 | 0.93 | 4.40 | 100 | 0.015 |
| 12.02 | 1 | 0.09 | 2.67 | 0 | 0.030 |
| 12.02 | 2 | 0.71 | 2.67 | 100 | 0.015 |
| 12.03 | 1 | 0.33 | 3.11 | 0 | 0.030 |
| 12.03 | 2 | 1.58 | 3.11 | 100 | 0.015 |
| 12.04 | 1 | 0.20 | 2.97 | 0 | 0.030 |
| 12.04 | 2 | 0.97 | 2.97 | 100 | 0.015 |
| 13.01 | 1 | 0.20 | 3.88 | 0 | 0.030 |
| 13.01 | 2 | 0.86 | 3.88 | 100 | 0.015 |
| 14.01 | 1 | 0.30 | 4.26 | 0 | 0.030 |
| 14.01 | 2 | 1.52 | 4.26 | 100 | 0.015 |
| 14.02 | 1 | 0.19 | 4.36 | 0 | 0.030 |
| 14.02 | 2 | 0.98 | 4.36 | 100 | 0.015 |
| 14.03 | 1 | 0.18 | 3.21 | 0 | 0.030 |
| 14.03 | 2 | 0.82 | 3.21 | 100 | 0.015 |
| 15.01 | 1 | 0.33 | 2.44 | 0 | 0.030 |
| 15.01 | 2 | 1.62 | 2.44 | 100 | 0.015 |
| 15.02 | 1 | 0.15 | 1.33 | 0 | 0.030 |
| 15.02 | 2 | 0.56 | 1.33 | 100 | 0.015 |
| 15.03 | 1 | 0.08 | 1.40 | 0 | 0.030 |
| 15.03 | 2 | 0.33 | 1.40 | 100 | 0.015 |
| 16.01 | 1 | 0.21 | 3.96 | 0 | 0.030 |
| 16.01 | 2 | 1.00 | 3.96 | 100 | 0.015 |
| 17.01 | 1 | 0.18 | 3.30 | 0 | 0.030 |
| 17.01 | 2 | 0.88 | 3.30 | 100 | 0.015 |
| 17.02 | 1 | 0.15 | 2.72 | 0 | 0.030 |
| 17.02 | 2 | 0.75 | 2.72 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 17.03 | 1 | 0.25 | 6.75 | 0 | 0.030 |
| 17.03 | 2 | 1.11 | 6.75 | 100 | 0.015 |
| 17.04 | 1 | 0.19 | 6.00 | 0 | 0.030 |
| 17.04 | 2 | 0.85 | 6.00 | 100 | 0.015 |
| 17.05 | 1 | 0.37 | 5.97 | 0 | 0.030 |
| 17.05 | 2 | 1.72 | 5.97 | 100 | 0.015 |
| 17.06 | 1 | 0.19 | 3.68 | 0 | 0.030 |
| 17.06 | 2 | 0.94 | 3.68 | 100 | 0.015 |
| 17.07 | 1 | 0.21 | 3.58 | 0 | 0.030 |
| 17.07 | 2 | 1.07 | 3.58 | 100 | 0.015 |
| 18.01 | 1 | 0.22 | 7.52 | 0 | 0.030 |
| 18.01 | 2 | 0.95 | 7.52 | 100 | 0.015 |
| 18.02 | 1 | 0.14 | 8.27 | 0 | 0.030 |
| 18.02 | 2 | 0.65 | 8.27 | 100 | 0.015 |
| 19.01 | 1 | 0.24 | 9.22 | 0 | 0.030 |
| 19.01 | 2 | 0.54 | 9.22 | 100 | 0.015 |
| 20.01 | 1 | 0.16 | 6.66 | 0 | 0.030 |
| 20.01 | 2 | 0.75 | 6.66 | 100 | 0.015 |
| 21.01 | 1 | 0.21 | 6.00 | 0 | 0.030 |
| 21.01 | 2 | 1.08 | 6.00 | 100 | 0.015 |
| 22.01 | 1 | 0.13 | 5.02 | 0 | 0.030 |
| 22.01 | 2 | 0.60 | 5.02 | 100 | 0.015 |
| 23.01 | 1 | 0.15 | 5.93 | 0 | 0.030 |
| 23.01 | 2 | 0.79 | 5.93 | 100 | 0.015 |
| 23.02 | 1 | 0.20 | 4.99 | 0 | 0.030 |
| 23.02 | 2 | 1.04 | 4.99 | 100 | 0.015 |
| 23.03 | 1 | 0.15 | 1.63 | 0 | 0.030 |
| 23.03 | 2 | 0.69 | 1.63 | 100 | 0.015 |
| 24.01 | 1 | 0.14 | 5.24 | 0 | 0.030 |
| 24.01 | 2 | 0.69 | 5.24 | 100 | 0.015 |
| 25.01 | 1 | 0.41 | 5.97 | 0 | 0.030 |
| 25.01 | 2 | 2.12 | 5.97 | 100 | 0.015 |
| 25.02 | 1 | 0.23 | 5.79 | 0 | 0.030 |
| 25.02 | 2 | 1.06 | 5.79 | 100 | 0.015 |
| 25.03 | 1 | 0.07 | 3.07 | 0 | 0.030 |
| 25.03 | 2 | 0.34 | 3.07 | 100 | 0.015 |
| 25.04 | 1 | 0.23 | 2.99 | 0 | 0.030 |
| 25.04 | 2 | 1.09 | 2.99 | 100 | 0.015 |
| 26.01 | 1 | 0.15 | 5.35 | 0 | 0.030 |
| 26.01 | 2 | 0.64 | 5.35 | 100 | 0.015 |
| 27.01 | 1 | 0.35 | 4.15 | 0 | 0.030 |
| 27.01 | 2 | 0.64 | 4.15 | 100 | 0.015 |
| 28.01 | 1 | 0.98 | 4.61 | 0 | 0.030 |
| 28.01 | 2 | 0.12 | 4.61 | 100 | 0.015 |
| 28.02 | 1 | 0.27 | 7.37 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 28.02 | 2 | 0.96 | 7.37 | 100 | 0.015 |
| 28.03 | 1 | 0.15 | 5.72 | 0 | 0.030 |
| 28.03 | 2 | 0.72 | 5.72 | 100 | 0.015 |
| 28.04 | 1 | 0.10 | 4.22 | 0 | 0.030 |
| 28.04 | 2 | 0.44 | 4.22 | 100 | 0.015 |
| 29.01 | 1 | 0.13 | 5.22 | 0 | 0.030 |
| 29.01 | 2 | 0.64 | 5.22 | 100 | 0.015 |
| 29.02 | 1 | 0.27 | 2.65 | 0 | 0.030 |
| 29.02 | 2 | 1.27 | 2.65 | 100 | 0.015 |
| 30.01 | 1 | 0.23 | 4.84 | 0 | 0.030 |
| 30.01 | 2 | 1.15 | 4.84 | 100 | 0.015 |
| 30.02 | 1 | 0.22 | 5.32 | 0 | 0.030 |
| 30.02 | 2 | 1.08 | 5.32 | 100 | 0.015 |
| 30.03 | 1 | 0.20 | 3.35 | 0 | 0.030 |
| 30.03 | 2 | 0.92 | 3.35 | 100 | 0.015 |
| 30.04 | 1 | 0.19 | 2.69 | 0 | 0.030 |
| 30.04 | 2 | 0.88 | 2.69 | 100 | 0.015 |
| 31.01 | 1 | 0.34 | 7.72 | 0 | 0.030 |
| 31.01 | 2 | 0.72 | 7.72 | 100 | 0.015 |
| 31.02 | 1 | 0.25 | 4.32 | 0 | 0.030 |
| 31.02 | 2 | 0.94 | 4.32 | 100 | 0.015 |
| 32.01 | 1 | 0.90 | 8.54 | 0 | 0.030 |
| 32.01 | 2 | 0.27 | 8.54 | 100 | 0.015 |
| 32.02 | 1 | 0.32 | 5.16 | 0 | 0.030 |
| 32.02 | 2 | 0.28 | 5.16 | 100 | 0.015 |
| 33.01 | 1 | 0.20 | 5.50 | 0 | 0.030 |
| 33.01 | 2 | 0.96 | 5.50 | 100 | 0.015 |
| 33.02 | 1 | 0.30 | 3.73 | 0 | 0.030 |
| 33.02 | 2 | 1.43 | 3.73 | 100 | 0.015 |
| 34.01 | 1 | 0.24 | 9.67 | 0 | 0.030 |
| 34.01 | 2 | 0.72 | 9.67 | 100 | 0.015 |
| 34.02 | 1 | 0.35 | 8.54 | 0 | 0.030 |
| 34.02 | 2 | 0.72 | 8.54 | 100 | 0.015 |
| 34.03 | 1 | 0.06 | 5.01 | 0 | 0.030 |
| 34.03 | 2 | 0.36 | 5.01 | 100 | 0.015 |
| 35.01 | 1 | 0.08 | 4.12 | 0 | 0.030 |
| 35.01 | 2 | 0.70 | 4.12 | 100 | 0.015 |
| 35.02 | 1 | 0.14 | 2.27 | 0 | 0.030 |
| 35.02 | 2 | 1.40 | 2.27 | 100 | 0.015 |
| 35.03 | 1 | 0.04 | 2.22 | 0 | 0.030 |
| 35.03 | 2 | 1.31 | 2.22 | 100 | 0.015 |
| 35.04 | 1 | 0.02 | 1.93 | 0 | 0.030 |
| 35.04 | 2 | 0.27 | 1.93 | 100 | 0.015 |
| 36.01 | 1 | 0.36 | 4.20 | 0 | 0.030 |
| 36.01 | 2 | 1.48 | 4.20 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 36.02 | 1 | 0.27 | 5.73 | 0 | 0.030 |
| 36.02 | 2 | 1.17 | 5.73 | 100 | 0.015 |
| 37.01 | 1 | 0.13 | 4.88 | 0 | 0.030 |
| 37.01 | 2 | 0.56 | 4.88 | 100 | 0.015 |
| 37.02 | 1 | 0.08 | 3.08 | 0 | 0.030 |
| 37.02 | 2 | 0.42 | 3.08 | 100 | 0.015 |
| 38.01 | 1 | 0.16 | 6.54 | 0 | 0.030 |
| 38.01 | 2 | 0.65 | 6.54 | 100 | 0.015 |
| 39.01 | 1 | 0.09 | 3.23 | 0 | 0.030 |
| 39.01 | 2 | 0.38 | 3.23 | 100 | 0.015 |
| 40.01 | 1 | 0.09 | 2.00 | 0 | 0.030 |
| 40.01 | 2 | 0.94 | 2.00 | 100 | 0.015 |
| 41.01 | 1 | 0.07 | 3.57 | 0 | 0.030 |
| 41.01 | 2 | 0.59 | 3.57 | 100 | 0.015 |
| 42.01 | 1 | 0.23 | 3.36 | 0 | 0.030 |
| 42.01 | 2 | 2.07 | 3.36 | 100 | 0.015 |
| 43.01 | 1 | 0.03 | 2.76 | 0 | 0.030 |
| 43.01 | 2 | 0.44 | 2.76 | 100 | 0.015 |
| 44.01 | 1 | 0.29 | 3.94 | 0 | 0.030 |
| 44.01 | 2 | 1.39 | 3.94 | 100 | 0.015 |
| 44.02 | 1 | 0.18 | 4.82 | 0 | 0.030 |
| 44.02 | 2 | 0.97 | 4.82 | 100 | 0.015 |
| 44.03 | 1 | 0.21 | 5.24 | 0 | 0.030 |
| 44.03 | 2 | 0.89 | 5.24 | 100 | 0.015 |
| 44.04 | 1 | 0.14 | 4.73 | 0 | 0.030 |
| 44.04 | 2 | 0.70 | 4.73 | 100 | 0.015 |
| 44.05 | 1 | 0.32 | 5.43 | 0 | 0.030 |
| 44.05 | 2 | 1.43 | 5.43 | 100 | 0.015 |
| 44.06 | 1 | 0.38 | 3.28 | 0 | 0.030 |
| 44.06 | 2 | 0.77 | 3.28 | 100 | 0.015 |
| 44.07 | 1 | 0.46 | 6.40 | 0 | 0.030 |
| 44.07 | 2 | 0.66 | 6.40 | 100 | 0.015 |
| 44.08 | 1 | 0.27 | 4.50 | 0 | 0.030 |
| 44.08 | 2 | 0.59 | 4.50 | 100 | 0.015 |
| 44.09 | 1 | 0.83 | 1.59 | 0 | 0.030 |
| 44.09 | 2 | 0.26 | 1.59 | 100 | 0.015 |
| 44.10 | 1 | 1.93 | 0.10 | 0 | 0.030 |
| 44.10 | 2 | 0.57 | 0.10 | 100 | 0.015 |
| 44.11 | 1 | 1.04 | 2.70 | 0 | 0.030 |
| 44.11 | 2 | 0.79 | 2.70 | 100 | 0.015 |
| 44.12 | 1 | 0.73 | 2.91 | 0 | 0.030 |
| 44.12 | 2 | 0.60 | 2.91 | 100 | 0.015 |
| 44.13 | 1 | 1.19 | 2.84 | 0 | 0.030 |
| 44.13 | 2 | 0.99 | 2.84 | 100 | 0.015 |
| 44.14 | 1 | 1.34 | 2.41 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 44.14 | 2 | 0.98 | 2.41 | 100 | 0.015 |
| 44.15 | 1 | 2.79 | 0.36 | 0 | 0.030 |
| 44.15 | 2 | 1.31 | 0.36 | 100 | 0.015 |
| 44.16 | 1 | 0.47 | 1.57 | 0 | 0.030 |
| 44.16 | 2 | 0.16 | 1.57 | 100 | 0.015 |
| 44.17 | 1 | 1.06 | 0.10 | 0 | 0.030 |
| 44.17 | 2 | 1.22 | 0.10 | 100 | 0.015 |
| 44.18 | 1 | 0.85 | 1.21 | 0 | 0.030 |
| 44.18 | 2 | 1.11 | 1.21 | 100 | 0.015 |
| 44.19 | 1 | 0.30 | 2.43 | 0 | 0.030 |
| 44.19 | 2 | 0.32 | 2.43 | 100 | 0.015 |
| 44.20 | 1 | 1.61 | 2.70 | 0 | 0.030 |
| 44.20 | 2 | 0.58 | 2.70 | 100 | 0.015 |
| 45.01 | 1 | 0.40 | 4.56 | 0 | 0.030 |
| 45.01 | 2 | 0.98 | 4.56 | 100 | 0.015 |
| 46.01 | 1 | 0.20 | 4.46 | 0 | 0.030 |
| 46.01 | 2 | 0.82 | 4.46 | 100 | 0.015 |
| 46.02 | 1 | 0.15 | 4.23 | 0 | 0.030 |
| 46.02 | 2 | 0.68 | 4.23 | 100 | 0.015 |
| 46.03 | 1 | 0.14 | 2.41 | 0 | 0.030 |
| 46.03 | 2 | 0.83 | 2.41 | 100 | 0.015 |
| 46.04 | 1 | 0.06 | 5.16 | 0 | 0.030 |
| 46.04 | 2 | 0.32 | 5.16 | 100 | 0.015 |
| 47.01 | 1 | 0.30 | 3.09 | 0 | 0.030 |
| 47.01 | 2 | 1.38 | 3.09 | 100 | 0.015 |
| 48.01 | 1 | 0.22 | 3.80 | 0 | 0.030 |
| 48.01 | 2 | 1.02 | 3.80 | 100 | 0.015 |
| 48.02 | 1 | 0.14 | 7.67 | 0 | 0.030 |
| 48.02 | 2 | 0.70 | 7.67 | 100 | 0.015 |
| 49.01 | 1 | 0.22 | 8.10 | 0 | 0.030 |
| 49.01 | 2 | 1.13 | 8.10 | 100 | 0.015 |
| 50.01 | 1 | 0.17 | 9.65 | 0 | 0.030 |
| 50.01 | 2 | 0.36 | 9.65 | 100 | 0.015 |
| 51.01 | 1 | 0.09 | 8.06 | 0 | 0.030 |
| 51.01 | 2 | 0.39 | 8.06 | 100 | 0.015 |
| 52.01 | 1 | 0.07 | 9.69 | 0 | 0.030 |
| 52.01 | 2 | 0.40 | 9.69 | 100 | 0.015 |
| 53.01 | 1 | 0.22 | 4.10 | 0 | 0.030 |
| 53.01 | 2 | 0.98 | 4.10 | 100 | 0.015 |
| 53.02 | 1 | 0.25 | 6.62 | 0 | 0.030 |
| 53.02 | 2 | 1.19 | 6.62 | 100 | 0.015 |
| 53.03 | 1 | 0.09 | 1.90 | 0 | 0.030 |
| 53.03 | 2 | 0.51 | 1.90 | 100 | 0.015 |
| 54.01 | 1 | 0.17 | 5.06 | 0 | 0.030 |
| 54.01 | 2 | 0.79 | 5.06 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 54.02 | 1 | 0.19 | 6.65 | 0 | 0.030 |
| 54.02 | 2 | 0.84 | 6.65 | 100 | 0.015 |
| 55.01 | 1 | 0.26 | 5.68 | 0 | 0.030 |
| 55.01 | 2 | 1.23 | 5.68 | 100 | 0.015 |
| 56.01 | 1 | 0.19 | 10.06 | 0 | 0.030 |
| 56.01 | 2 | 0.55 | 10.06 | 100 | 0.015 |
| 57.01 | 1 | 0.23 | 8.73 | 0 | 0.030 |
| 57.01 | 2 | 0.36 | 8.73 | 100 | 0.015 |
| 58.01 | 1 | 0.17 | 2.03 | 0 | 0.030 |
| 58.01 | 2 | 0.84 | 2.03 | 100 | 0.015 |
| 59.01 | 1 | 0.35 | 2.57 | 0 | 0.030 |
| 59.01 | 2 | 1.11 | 2.57 | 100 | 0.015 |
| 59.02 | 1 | 0.24 | 5.95 | 0 | 0.030 |
| 59.02 | 2 | 1.14 | 5.95 | 100 | 0.015 |
| 59.03 | 1 | 0.23 | 6.16 | 0 | 0.030 |
| 59.03 | 2 | 1.01 | 6.16 | 100 | 0.015 |
| 59.04 | 1 | 0.21 | 4.61 | 0 | 0.030 |
| 59.04 | 2 | 0.95 | 4.61 | 100 | 0.015 |
| 59.05 | 1 | 0.32 | 5.25 | 0 | 0.030 |
| 59.05 | 2 | 0.94 | 5.25 | 100 | 0.015 |
| 59.06 | 1 | 0.29 | 4.77 | 0 | 0.030 |
| 59.06 | 2 | 1.30 | 4.77 | 100 | 0.015 |
| 59.07 | 1 | 0.67 | 5.92 | 0 | 0.030 |
| 59.07 | 2 | 0.40 | 5.92 | 100 | 0.015 |
| 59.08 | 1 | 1.00 | 3.28 | 0 | 0.030 |
| 59.08 | 2 | 1.65 | 3.28 | 100 | 0.015 |
| 59.09 | 1 | 0.60 | 5.71 | 0 | 0.030 |
| 59.09 | 2 | 0.79 | 5.71 | 100 | 0.015 |
| 59.10 | 1 | 0.75 | 3.65 | 0 | 0.030 |
| 59.10 | 2 | 1.02 | 3.65 | 100 | 0.015 |
| 60.01 | 1 | 0.53 | 5.61 | 0 | 0.030 |
| 60.01 | 2 | 0.61 | 5.61 | 100 | 0.015 |
| 60.02 | 1 | 0.18 | 8.41 | 0 | 0.030 |
| 60.02 | 2 | 0.84 | 8.41 | 100 | 0.015 |
| 61.01 | 1 | 0.77 | 9.19 | 0 | 0.030 |
| 61.01 | 2 | 1.41 | 9.19 | 100 | 0.015 |
| 62.01 | 1 | 0.21 | 7.62 | 0 | 0.030 |
| 62.01 | 2 | 0.94 | 7.62 | 100 | 0.015 |
| 63.01 | 1 | 0.36 | 6.92 | 0 | 0.030 |
| 63.01 | 2 | 0.44 | 6.92 | 100 | 0.015 |
| 64.01 | 1 | 0.14 | 1.92 | 0 | 0.030 |
| 64.01 | 2 | 0.75 | 1.92 | 100 | 0.015 |
| 64.02 | 1 | 0.60 | 5.14 | 0 | 0.030 |
| 64.02 | 2 | 1.87 | 5.14 | 100 | 0.015 |
| 64.03 | 1 | 0.60 | 3.94 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 64.03 | 2 | 2.35 | 3.94 | 100 | 0.015 |
| 64.04 | 1 | 0.35 | 7.19 | 0 | 0.030 |
| 64.04 | 2 | 0.40 | 7.19 | 100 | 0.015 |
| 65.01 | 1 | 0.14 | 1.70 | 0 | 0.030 |
| 65.01 | 2 | 0.58 | 1.70 | 100 | 0.015 |
| 66.01 | 1 | 0.18 | 8.03 | 0 | 0.030 |
| 66.01 | 2 | 0.42 | 8.03 | 100 | 0.015 |
| 66.02 | 1 | 0.74 | 5.57 | 0 | 0.030 |
| 66.02 | 2 | 0.39 | 5.57 | 100 | 0.015 |
| 67.01 | 1 | 0.15 | 5.28 | 0 | 0.030 |
| 67.01 | 2 | 0.80 | 5.28 | 100 | 0.015 |
| 68.01 | 1 | 0.23 | 6.06 | 0 | 0.030 |
| 68.01 | 2 | 1.09 | 6.06 | 100 | 0.015 |
| 68.02 | 1 | 0.20 | 5.92 | 0 | 0.030 |
| 68.02 | 2 | 1.16 | 5.92 | 100 | 0.015 |
| 68.03 | 1 | 0.14 | 5.59 | 0 | 0.030 |
| 68.03 | 2 | 0.89 | 5.59 | 100 | 0.015 |
| 69.01 | 1 | 0.12 | 5.11 | 0 | 0.030 |
| 69.01 | 2 | 0.95 | 5.11 | 100 | 0.015 |
| 70.01 | 1 | 0.17 | 9.28 | 0 | 0.030 |
| 70.01 | 2 | 0.86 | 9.28 | 100 | 0.015 |
| 70.02 | 1 | 0.14 | 2.86 | 0 | 0.030 |
| 70.02 | 2 | 0.59 | 2.86 | 100 | 0.015 |
| 71.01 | 1 | 0.24 | 4.93 | 0 | 0.030 |
| 71.01 | 2 | 1.09 | 4.93 | 100 | 0.015 |
| 71.02 | 1 | 0.27 | 4.90 | 0 | 0.030 |
| 71.02 | 2 | 1.16 | 4.90 | 100 | 0.015 |
| 72.01 | 1 | 0.24 | 4.85 | 0 | 0.030 |
| 72.01 | 2 | 1.18 | 4.85 | 100 | 0.015 |
| 73.01 | 1 | 0.25 | 3.54 | 0 | 0.030 |
| 73.01 | 2 | 0.96 | 3.54 | 100 | 0.015 |
| 74.01 | 1 | 0.23 | 3.93 | 0 | 0.030 |
| 74.01 | 2 | 1.11 | 3.93 | 100 | 0.015 |
| 75.01 | 1 | 0.32 | 7.66 | 0 | 0.030 |
| 75.01 | 2 | 0.60 | 7.66 | 100 | 0.015 |
| 75.02 | 1 | 0.39 | 6.19 | 0 | 0.030 |
| 75.02 | 2 | 1.24 | 6.19 | 100 | 0.015 |
| 75.03 | 1 | 0.31 | 5.82 | 0 | 0.030 |
| 75.03 | 2 | 1.46 | 5.82 | 100 | 0.015 |
| 75.04 | 1 | 0.06 | 1.47 | 0 | 0.030 |
| 75.04 | 2 | 0.33 | 1.47 | 100 | 0.015 |
| 76.01 | 1 | 0.69 | 7.84 | 0 | 0.030 |
| 76.01 | 2 | 0.67 | 7.84 | 100 | 0.015 |
| 77.01 | 1 | 0.28 | 4.57 | 0 | 0.030 |
| 77.01 | 2 | 1.30 | 4.57 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 77.02 | 1 | 0.12 | 6.57 | 0 | 0.030 |
| 77.02 | 2 | 0.66 | 6.57 | 100 | 0.015 |
| 77.03 | 1 | 0.21 | 4.74 | 0 | 0.030 |
| 77.03 | 2 | 0.94 | 4.74 | 100 | 0.015 |
| 78.01 | 1 | 0.26 | 4.41 | 0 | 0.030 |
| 78.01 | 2 | 1.23 | 4.41 | 100 | 0.015 |
| 79.01 | 1 | 0.41 | 1.26 | 0 | 0.030 |
| 79.01 | 2 | 1.45 | 1.26 | 100 | 0.015 |
| 79.02 | 1 | 0.30 | 0.49 | 0 | 0.030 |
| 79.02 | 2 | 1.33 | 0.49 | 100 | 0.015 |
| 79.03 | 1 | 0.12 | 2.80 | 0 | 0.030 |
| 79.03 | 2 | 0.56 | 2.80 | 100 | 0.015 |
| 80.01 | 1 | 0.27 | 6.07 | 0 | 0.030 |
| 80.01 | 2 | 1.27 | 6.07 | 100 | 0.015 |
| 80.02 | 1 | 0.29 | 4.85 | 0 | 0.030 |
| 80.02 | 2 | 1.47 | 4.85 | 100 | 0.015 |
| 81.01 | 1 | 0.36 | 7.42 | 0 | 0.030 |
| 81.01 | 2 | 0.91 | 7.42 | 100 | 0.015 |
| 81.02 | 1 | 0.20 | 6.38 | 0 | 0.030 |
| 81.02 | 2 | 0.85 | 6.38 | 100 | 0.015 |
| 82.01 | 1 | 0.27 | 5.15 | 0 | 0.030 |
| 82.01 | 2 | 1.13 | 5.15 | 100 | 0.015 |
| 83.01 | 1 | 0.18 | 3.30 | 0 | 0.030 |
| 83.01 | 2 | 0.72 | 3.30 | 100 | 0.015 |
| 84.01 | 1 | 0.30 | 6.11 | 0 | 0.030 |
| 84.01 | 2 | 1.05 | 6.11 | 100 | 0.015 |
| 84.02 | 1 | 0.22 | 5.03 | 0 | 0.030 |
| 84.02 | 2 | 1.02 | 5.03 | 100 | 0.015 |
| 84.03 | 1 | 0.21 | 5.06 | 0 | 0.030 |
| 84.03 | 2 | 0.92 | 5.06 | 100 | 0.015 |
| 84.04 | 1 | 0.14 | 3.54 | 0 | 0.030 |
| 84.04 | 2 | 0.71 | 3.54 | 100 | 0.015 |
| 84.05 | 1 | 0.23 | 4.91 | 0 | 0.030 |
| 84.05 | 2 | 1.11 | 4.91 | 100 | 0.015 |
| 84.06 | 1 | 0.17 | 3.12 | 0 | 0.030 |
| 84.06 | 2 | 0.78 | 3.12 | 100 | 0.015 |
| 85.01 | 1 | 0.13 | 7.23 | 0 | 0.030 |
| 85.01 | 2 | 0.66 | 7.23 | 100 | 0.015 |
| 86.01 | 1 | 0.22 | 3.18 | 0 | 0.030 |
| 86.01 | 2 | 1.03 | 3.18 | 100 | 0.015 |
| 86.02 | 1 | 0.93 | 0.96 | 0 | 0.030 |
| 86.02 | 2 | 1.04 | 0.96 | 100 | 0.015 |
| 87.01 | 1 | 0.30 | 4.24 | 0 | 0.030 |
| 87.01 | 2 | 1.50 | 4.24 | 100 | 0.015 |
| 87.02 | 1 | 0.25 | 3.02 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 87.02 | 2 | 1.20 | 3.02 | 100 | 0.015 |
| 88.01 | 1 | 0.17 | 2.94 | 0 | 0.030 |
| 88.01 | 2 | 0.67 | 2.94 | 100 | 0.015 |
| 88.02 | 1 | 0.30 | 1.41 | 0 | 0.030 |
| 88.02 | 2 | 0.49 | 1.41 | 100 | 0.015 |
| 89.01 | 1 | 0.15 | 1.98 | 0 | 0.030 |
| 89.01 | 2 | 0.76 | 1.98 | 100 | 0.015 |
| 89.02 | 1 | 0.08 | 3.91 | 0 | 0.030 |
| 89.02 | 2 | 0.08 | 3.91 | 100 | 0.015 |
| 90.01 | 1 | 0.08 | 1.10 | 0 | 0.030 |
| 90.01 | 2 | 0.31 | 1.10 | 100 | 0.015 |
| 91.01 | 1 | 0.10 | 4.07 | 0 | 0.030 |
| 91.01 | 2 | 0.87 | 4.07 | 100 | 0.015 |
| 91.02 | 1 | 0.11 | 3.91 | 0 | 0.030 |
| 91.02 | 2 | 1.08 | 3.91 | 100 | 0.015 |
| 92.01 | 1 | 0.31 | 5.11 | 0 | 0.030 |
| 92.01 | 2 | 0.83 | 5.11 | 100 | 0.015 |
| 92.02 | 1 | 0.67 | 3.50 | 0 | 0.030 |
| 92.02 | 2 | 1.72 | 3.50 | 100 | 0.015 |
| 93.01 | 1 | 0.35 | 4.22 | 0 | 0.030 |
| 93.01 | 2 | 0.82 | 4.22 | 100 | 0.015 |
| 94.01 | 1 | 0.16 | 5.36 | 0 | 0.030 |
| 94.01 | 2 | 1.03 | 5.36 | 100 | 0.015 |
| 94.02 | 1 | 0.18 | 3.64 | 0 | 0.030 |
| 94.02 | 2 | 1.62 | 3.64 | 100 | 0.015 |
| 95.01 | 1 | 0.07 | 4.28 | 0 | 0.030 |
| 95.01 | 2 | 0.61 | 4.28 | 100 | 0.015 |
| 95.02 | 1 | 0.03 | 5.21 | 0 | 0.030 |
| 95.02 | 2 | 0.24 | 5.21 | 100 | 0.015 |
| 96.01 | 1 | 0.10 | 4.59 | 0 | 0.030 |
| 96.01 | 2 | 0.68 | 4.59 | 100 | 0.015 |
| 97.01 | 1 | 0.05 | 2.23 | 0 | 0.030 |
| 97.01 | 2 | 0.47 | 2.23 | 100 | 0.015 |
| 97.02 | 1 | 0.37 | 1.50 | 0 | 0.030 |
| 97.02 | 2 | 1.74 | 1.50 | 100 | 0.015 |
| 98.01 | 1 | 0.19 | 2.78 | 0 | 0.030 |
| 98.01 | 2 | 0.81 | 2.78 | 100 | 0.015 |
| 99.01 | 1 | 0.14 | 6.30 | 0 | 0.030 |
| 99.01 | 2 | 0.77 | 6.30 | 100 | 0.015 |
| 99.02 | 1 | 0.29 | 7.66 | 0 | 0.030 |
| 99.02 | 2 | 1.50 | 7.66 | 100 | 0.015 |
| 99.03 | 1 | 0.37 | 5.60 | 0 | 0.030 |
| 99.03 | 2 | 1.73 | 5.60 | 100 | 0.015 |
| 99.04 | 1 | 0.63 | 2.43 | 0 | 0.030 |
| 99.04 | 2 | 0.79 | 2.43 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 100.01 | 1 | 1.22 | 5.27 | 0 | 0.030 |
| 100.01 | 2 | 0.56 | 5.27 | 100 | 0.015 |
| 100.02 | 1 | 0.97 | 3.05 | 0 | 0.030 |
| 100.02 | 2 | 0.56 | 3.05 | 100 | 0.015 |
| 101.01 | 1 | 0.51 | 8.23 | 0 | 0.030 |
| 101.01 | 2 | 1.57 | 8.23 | 100 | 0.015 |
| 101.02 | 1 | 0.36 | 5.06 | 0 | 0.030 |
| 101.02 | 2 | 1.40 | 5.06 | 100 | 0.015 |
| 102.01 | 1 | 0.25 | 4.61 | 0 | 0.030 |
| 102.01 | 2 | 1.28 | 4.61 | 100 | 0.015 |
| 102.02 | 1 | 0.18 | 2.37 | 0 | 0.030 |
| 102.02 | 2 | 0.88 | 2.37 | 100 | 0.015 |
| 103.01 | 1 | 0.15 | 7.12 | 0 | 0.030 |
| 103.01 | 2 | 0.85 | 7.12 | 100 | 0.015 |
| 103.02 | 1 | 0.32 | 6.76 | 0 | 0.030 |
| 103.02 | 2 | 1.56 | 6.76 | 100 | 0.015 |
| 104.01 | 1 | 0.15 | 8.00 | 0 | 0.030 |
| 104.01 | 2 | 0.76 | 8.00 | 100 | 0.015 |
| 105.01 | 1 | 0.18 | 7.86 | 0 | 0.030 |
| 105.01 | 2 | 0.81 | 7.86 | 100 | 0.015 |
| 105.02 | 1 | 0.27 | 6.90 | 0 | 0.030 |
| 105.02 | 2 | 1.25 | 6.90 | 100 | 0.015 |
| 105.03 | 1 | 0.23 | 5.32 | 0 | 0.030 |
| 105.03 | 2 | 1.15 | 5.32 | 100 | 0.015 |
| 105.04 | 1 | 0.22 | 5.86 | 0 | 0.030 |
| 105.04 | 2 | 1.07 | 5.86 | 100 | 0.015 |
| 105.05 | 1 | 0.63 | 5.70 | 0 | 0.030 |
| 105.05 | 2 | 0.25 | 5.70 | 100 | 0.015 |
| 105.06 | 1 | 1.32 | 4.51 | 0 | 0.030 |
| 105.06 | 2 | 0.22 | 4.51 | 100 | 0.015 |
| 105.07 | 1 | 0.10 | 2.73 | 0 | 0.030 |
| 105.07 | 2 | 0.42 | 2.73 | 100 | 0.015 |
| 105.08 | 1 | 0.14 | 2.54 | 0 | 0.030 |
| 105.08 | 2 | 0.75 | 2.54 | 100 | 0.015 |
| 105.09 | 1 | 0.15 | 2.10 | 0 | 0.030 |
| 105.09 | 2 | 0.78 | 2.10 | 100 | 0.015 |
| 106.01 | 1 | 0.12 | 5.75 | 0 | 0.030 |
| 106.01 | 2 | 0.59 | 5.75 | 100 | 0.015 |
| 107.01 | 1 | 0.23 | 9.22 | 0 | 0.030 |
| 107.01 | 2 | 1.03 | 9.22 | 100 | 0.015 |
| 108.01 | 1 | 0.13 | 4.48 | 0 | 0.030 |
| 108.01 | 2 | 0.76 | 4.48 | 100 | 0.015 |
| 109.01 | 1 | 0.22 | 4.97 | 0 | 0.030 |
| 109.01 | 2 | 0.98 | 4.97 | 100 | 0.015 |
| 110.01 | 1 | 0.20 | 3.21 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 110.01 | 2 | 0.92 | 3.21 | 100 | 0.015 |
| 110.02 | 1 | 0.37 | 4.37 | 0 | 0.030 |
| 110.02 | 2 | 1.32 | 4.37 | 100 | 0.015 |
| 110.03 | 1 | 0.10 | 3.57 | 0 | 0.030 |
| 110.03 | 2 | 0.20 | 3.57 | 100 | 0.015 |
| 111.01 | 1 | 0.98 | 5.28 | 0 | 0.030 |
| 111.01 | 2 | 0.19 | 5.28 | 100 | 0.015 |
| 112.01 | 1 | 0.35 | 2.72 | 0 | 0.030 |
| 112.01 | 2 | 1.60 | 2.72 | 100 | 0.015 |
| 113.01 | 1 | 0.14 | 4.49 | 0 | 0.030 |
| 113.01 | 2 | 0.55 | 4.49 | 100 | 0.015 |
| 113.02 | 1 | 0.55 | 3.53 | 0 | 0.030 |
| 113.02 | 2 | 1.34 | 3.53 | 100 | 0.015 |
| 114.01 | 1 | 0.46 | 2.90 | 0 | 0.030 |
| 114.01 | 2 | 0.97 | 2.90 | 100 | 0.015 |
| 114.02 | 1 | 0.13 | 3.92 | 0 | 0.03 |
| 114.02 | 2 | 0.69 | 3.92 | 100 | 0.015 |
| 114.03 | 1 | 0.05 | 2.72 | 0 | 0.030 |
| 114.03 | 2 | 0.32 | 2.72 | 100 | 0.015 |
| 115.01 | 1 | 0.20 | 3.10 | 0 | 0.030 |
| 115.01 | 2 | 0.89 | 3.10 | 100 | 0.015 |
| 115.02 | 1 | 0.14 | 4.02 | 0 | 0.030 |
| 115.02 | 2 | 0.64 | 4.02 | 100 | 0.015 |
| 116.01 | 1 | 0.20 | 2.68 | 0 | 0.030 |
| 116.01 | 2 | 0.89 | 2.68 | 100 | 0.015 |
| 116.02 | 1 | 0.14 | 2.57 | 0 | 0.030 |
| 116.02 | 2 | 0.64 | 2.57 | 100 | 0.015 |
| 117.01 | 1 | 0.12 | 3.73 | 0 | 0.030 |
| 117.01 | 2 | 0.51 | 3.73 | 100 | 0.015 |
| 118.01 | 1 | 0.50 | 2.52 | 0 | 0.030 |
| 118.01 | 2 | 0.79 | 2.52 | 100 | 0.015 |
| 119.01 | 1 | 0.38 | 2.57 | 0 | 0.030 |
| 119.01 | 2 | 1.82 | 2.57 | 100 | 0.015 |
| 119.02 | 1 | 0.21 | 3.14 | 0 | 0.030 |
| 119.02 | 2 | 1.02 | 3.14 | 100 | 0.015 |
| 120.01 | 1 | 0.17 | 3.70 | 0 | 0.030 |
| 120.01 | 2 | 0.77 | 3.70 | 100 | 0.015 |
| 121.01 | 1 | 0.24 | 3.48 | 0 | 0.030 |
| 121.01 | 2 | 0.97 | 3.48 | 100 | 0.015 |
| 122.01 | 1 | 0.68 | 3.58 | 0 | 0.030 |
| 122.01 | 2 | 1.09 | 3.58 | 100 | 0.015 |
| 122.02 | 1 | 0.24 | 3.53 | 0 | 0.030 |
| 122.02 | 2 | 1.07 | 3.53 | 100 | 0.015 |
| 122.03 | 1 | 0.25 | 16.01 | 0 | 0.030 |
| 122.03 | 2 | 0.91 | 16.01 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 123.01 | 1 | 0.10 | 1.66 | 0 | 0.030 |
| 123.01 | 2 | 0.85 | 1.66 | 100 | 0.015 |
| 123.02 | 1 | 0.33 | 4.32 | 0 | 0.030 |
| 123.02 | 2 | 1.61 | 4.32 | 100 | 0.015 |
| 123.03 | 1 | 0.61 | 2.55 | 0 | 0.030 |
| 123.03 | 2 | 2.85 | 2.55 | 100 | 0.015 |
| 123.04 | 1 | 0.11 | 0.92 | 0 | 0.030 |
| 123.04 | 2 | 0.42 | 0.92 | 100 | 0.015 |
| 123.05 | 1 | 0.69 | 4.04 | 0 | 0.030 |
| 123.05 | 2 | 2.39 | 4.04 | 100 | 0.015 |
| 123.06 | 1 | 0.23 | 10.01 | 0 | 0.030 |
| 123.06 | 2 | 1.04 | 10.01 | 100 | 0.015 |
| 123.07 | 1 | 1.71 | 9.39 | 0 | 0.030 |
| 123.07 | 2 | 1.52 | 9.39 | 100 | 0.015 |
| 124.01 | 1 | 1.29 | 3.23 | 0 | 0.030 |
| 124.01 | 2 | 0.63 | 3.23 | 100 | 0.015 |
| 124.02 | 1 | 0.25 | 2.72 | 0 | 0.030 |
| 124.02 | 2 | 1.22 | 2.72 | 100 | 0.015 |
| 125.01 | 1 | 1.84 | 5.09 | 0 | 0.030 |
| 125.01 | 2 | 0.71 | 5.09 | 100 | 0.015 |
| 126.01 | 1 | 0.15 | 2.89 | 0 | 0.030 |
| 126.01 | 2 | 0.74 | 2.89 | 100 | 0.015 |
| 126.02 | 1 | 2.03 | 3.28 | 0 | 0.030 |
| 126.02 | 2 | 0.64 | 3.28 | 100 | 0.015 |
| 126.03 | 1 | 1.18 | 2.76 | 0 | 0.030 |
| 126.03 | 2 | 1.26 | 2.76 | 100 | 0.015 |
| 127.01 | 1 | 0.69 | 3.56 | 0 | 0.030 |
| 127.01 | 2 | 1.27 | 3.56 | 100 | 0.015 |
| 127.02 | 1 | 0.37 | 3.55 | 0 | 0.030 |
| 127.02 | 2 | 1.31 | 3.55 | 100 | 0.015 |
| 128.01 | 1 | 1.16 | 2.87 | 0 | 0.030 |
| 128.01 | 2 | 0.87 | 2.87 | 100 | 0.015 |
| 129.01 | 1 | 0.39 | 5.19 | 0 | 0.030 |
| 129.01 | 2 | 0.79 | 5.19 | 100 | 0.015 |
| 130.01 | 1 | 0.25 | 3.94 | 0 | 0.030 |
| 130.01 | 2 | 1.28 | 3.94 | 100 | 0.015 |
| 131.01 | 1 | 0.06 | 5.90 | 0 | 0.030 |
| 131.01 | 2 | 0.50 | 5.90 | 100 | 0.015 |
| 132.01 | 1 | 0.18 | 3.95 | 0 | 0.030 |
| 132.01 | 2 | 0.70 | 3.95 | 100 | 0.015 |
| 133.01 | 1 | 0.09 | 2.66 | 0 | 0.030 |
| 133.01 | 2 | 0.52 | 2.66 | 100 | 0.015 |
| 134.01 | 1 | 0.13 | 1.81 | 0 | 0.030 |
| 134.01 | 2 | 0.44 | 1.81 | 100 | 0.015 |
| 134.02 | 1 | 0.54 | 3.88 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 134.02 | 2 | 1.13 | 3.88 | 100 | 0.015 |
| 134.03 | 1 | 1.22 | 10.01 | 0 | 0.030 |
| 134.03 | 2 | 1.16 | 10.01 | 100 | 0.015 |
| 134.04 | 1 | 1.40 | 10.27 | 0 | 0.030 |
| 134.04 | 2 | 0.59 | 10.27 | 100 | 0.015 |
| 135.01 | 1 | 0.07 | 5.14 | 0 | 0.030 |
| 135.01 | 2 | 0.34 | 5.14 | 100 | 0.015 |
| 135.02 | 1 | 0.37 | 2.71 | 0 | 0.030 |
| 135.02 | 2 | 1.74 | 2.71 | 100 | 0.015 |
| 135.03 | 1 | 0.15 | 5.52 | 0 | 0.030 |
| 135.03 | 2 | 0.70 | 5.52 | 100 | 0.015 |
| 135.04 | 1 | 0.28 | 2.88 | 0 | 0.030 |
| 135.04 | 2 | 1.39 | 2.88 | 100 | 0.015 |
| 135.05 | 1 | 0.25 | 10.32 | 0 | 0.030 |
| 135.05 | 2 | 1.01 | 10.32 | 100 | 0.015 |
| 135.06 | 1 | 0.96 | 20.17 | 0 | 0.030 |
| 135.06 | 2 | 0.37 | 20.17 | 100 | 0.015 |
| 136.01 | 1 | 0.21 | 3.66 | 0 | 0.030 |
| 136.01 | 2 | 1.04 | 3.66 | 100 | 0.015 |
| 137.01 | 1 | 0.22 | 1.93 | 0 | 0.030 |
| 137.01 | 2 | 1.12 | 1.93 | 100 | 0.015 |
| 138.01 | 1 | 0.31 | 1.56 | 0 | 0.030 |
| 138.01 | 2 | 1.39 | 1.56 | 100 | 0.015 |
| 139.01 | 1 | 0.37 | 3.26 | 0 | 0.030 |
| 139.01 | 2 | 1.25 | 3.26 | 100 | 0.015 |
| 139.02 | 1 | 0.06 | 5.49 | 0 | 0.030 |
| 139.02 | 2 | 0.33 | 5.49 | 100 | 0.015 |
| 140.01 | 1 | 0.20 | 2.01 | 0 | 0.030 |
| 140.01 | 2 | 0.91 | 2.01 | 100 | 0.015 |
| 141.01 | 1 | 1.23 | 18.19 | 0 | 0.030 |
| 141.01 | 2 | 0.77 | 18.19 | 100 | 0.015 |
| 142.01 | 1 | 2.90 | 7.25 | 0 | 0.030 |
| 142.01 | 2 | 1.13 | 7.25 | 100 | 0.015 |
| 143.01 | 1 | 0.95 | 1.79 | 0 | 0.030 |
| 143.01 | 2 | 0.72 | 1.79 | 100 | 0.015 |
| 143.02 | 1 | 3.12 | 15.97 | 0 | 0.030 |
| 143.02 | 2 | 5.91 | 15.97 | 100 | 0.015 |
| 144.01 | 1 | 0.44 | 1.85 | 0 | 0.030 |
| 144.01 | 2 | 1.05 | 1.85 | 100 | 0.015 |
| 144.02 | 1 | 0.26 | 2.26 | 0 | 0.030 |
| 144.02 | 2 | 0.47 | 2.26 | 100 | 0.015 |
| 144.03 | 1 | 0.36 | 2.49 | 0 | 0.030 |
| 144.03 | 2 | 0.63 | 2.49 | 100 | 0.015 |
| 144.04 | 1 | 0.93 | 5.97 | 0 | 0.030 |
| 144.04 | 2 | 1.68 | 5.97 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 144.05 | 1 | 0.91 | 26.31 | 0 | 0.030 |
| 144.05 | 2 | 0.51 | 26.31 | 100 | 0.015 |
| 145.01 | 1 | 0.16 | 1.76 | 0 | 0.030 |
| 145.01 | 2 | 1.41 | 1.76 | 100 | 0.015 |
| 145.02 | 1 | 0.19 | 12.60 | 0 | 0.030 |
| 145.02 | 2 | 1.16 | 12.60 | 100 | 0.015 |
| 146.01 | 1 | 4.10 | 10.44 | 0 | 0.030 |
| 146.01 | 2 | 0.46 | 10.44 | 100 | 0.015 |
| 147.01 | 1 | 1.43 | 16.73 | 0 | 0.030 |
| 147.01 | 2 | 0.39 | 16.73 | 100 | 0.015 |
| 147.02 | 1 | 0.61 | 26.90 | 0 | 0.030 |
| 147.02 | 2 | 0.14 | 26.90 | 100 | 0.015 |
| 147.03 | 1 | 0.61 | 26.40 | 0 | 0.030 |
| 147.03 | 2 | 0.07 | 26.40 | 100 | 0.015 |
| 148.01 | 1 | 0.28 | 7.19 | 0 | 0.030 |
| 148.01 | 2 | 1.04 | 7.19 | 100 | 0.015 |
| 148.02 | 1 | 1.29 | 33.96 | 0 | 0.030 |
| 148.02 | 2 | 0.55 | 33.96 | 100 | 0.015 |
| 149.01 | 1 | 0.57 | 1.45 | 0 | 0.030 |
| 149.01 | 2 | 0.79 | 1.45 | 100 | 0.015 |
| 149.02 | 1 | 2.28 | 32.21 | 0 | 0.030 |
| 149.02 | 2 | 0.26 | 32.21 | 100 | 0.015 |
| 150.01 | 1 | 0.19 | 4.10 | 0 | 0.030 |
| 150.01 | 2 | 0.92 | 4.10 | 100 | 0.015 |
| 150.02 | 1 | 0.22 | 2.25 | 0 | 0.030 |
| 150.02 | 2 | 1.03 | 2.25 | 100 | 0.015 |
| 150.03 | 1 | 0.20 | 3.85 | 0 | 0.030 |
| 150.03 | 2 | 1.09 | 3.85 | 100 | 0.015 |
| 150.04 | 1 | 0.09 | 2.46 | 0 | 0.030 |
| 150.04 | 2 | 0.49 | 2.46 | 100 | 0.015 |
| 150.05 | 1 | 0.11 | 2.57 | 0 | 0.030 |
| 150.05 | 2 | 0.53 | 2.57 | 100 | 0.015 |
| 150.06 | 1 | 0.49 | 2.13 | 0 | 0.030 |
| 150.06 | 2 | 2.37 | 2.13 | 100 | 0.015 |
| 150.07 | 1 | 0.50 | 2.83 | 0 | 0.030 |
| 150.07 | 2 | 1.54 | 2.83 | 100 | 0.015 |
| 150.08 | 1 | 3.18 | 0.10 | 0 | 0.030 |
| 150.08 | 2 | 1.06 | 0.10 | 100 | 0.015 |
| 150.09 | 1 | 0.19 | 0.49 | 0 | 0.030 |
| 150.09 | 2 | 1.46 | 0.49 | 100 | 0.015 |
| 150.10 | 1 | 0.67 | 1.49 | 0 | 0.030 |
| 150.10 | 2 | 2.16 | 1.49 | 100 | 0.015 |
| 150.11 | 1 | 0.45 | 0.10 | 0 | 0.030 |
| 150.11 | 2 | 1.44 | 0.10 | 100 | 0.015 |
| 150.12 | 1 | 0.85 | 1.64 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 150.12 | 2 | 0.42 | 1.64 | 100 | 0.015 |
| 150.13 | 1 | 1.72 | 2.71 | 0 | 0.030 |
| 150.13 | 2 | 0.35 | 2.71 | 100 | 0.015 |
| 150.14 | 1 | 0.97 | 2.04 | 0 | 0.030 |
| 150.14 | 2 | 0.28 | 2.04 | 100 | 0.015 |
| 150.15 | 1 | 2.34 | 6.03 | 0 | 0.030 |
| 150.15 | 2 | 1.46 | 6.03 | 100 | 0.015 |
| 150.16 | 1 | 4.86 | 13.99 | 0 | 0.030 |
| 150.16 | 2 | 0.54 | 13.99 | 100 | 0.015 |
| 150.17 | 1 | 6.55 | 16.67 | 0 | 0.030 |
| 150.17 | 2 | 0.73 | 16.67 | 100 | 0.015 |
| 151.01 | 1 | 0.23 | 3.14 | 0 | 0.030 |
| 151.01 | 2 | 1.26 | 3.14 | 100 | 0.015 |
| 151.02 | 1 | 0.16 | 2.74 | 0 | 0.030 |
| 151.02 | 2 | 0.79 | 2.74 | 100 | 0.015 |
| 152.01 | 1 | 0.25 | 1.93 | 0 | 0.030 |
| 152.01 | 2 | 1.16 | 1.93 | 100 | 0.015 |
| 153.01 | 1 | 0.20 | 0.76 | 0 | 0.030 |
| 153.01 | 2 | 0.97 | 0.76 | 100 | 0.015 |
| 153.02 | 1 | 0.30 | 1.33 | 0 | 0.030 |
| 153.02 | 2 | 1.43 | 1.33 | 100 | 0.015 |
| 154.01 | 1 | 0.56 | 2.37 | 0 | 0.030 |
| 154.01 | 2 | 1.72 | 2.37 | 100 | 0.015 |
| 154.02 | 1 | 0.25 | 0.72 | 0 | 0.030 |
| 154.02 | 2 | 1.20 | 0.72 | 100 | 0.015 |
| 155.01 | 1 | 0.28 | 6.98 | 0 | 0.030 |
| 155.01 | 2 | 0.56 | 6.98 | 100 | 0.015 |
| 155.02 | 1 | 0.28 | 2.65 | 0 | 0.030 |
| 155.02 | 2 | 1.30 | 2.65 | 100 | 0.015 |
| 156.01 | 1 | 0.16 | 1.38 | 0 | 0.030 |
| 156.01 | 2 | 0.72 | 1.38 | 100 | 0.015 |
| 157.01 | 1 | 0.19 | 1.07 | 0 | 0.030 |
| 157.01 | 2 | 0.87 | 1.07 | 100 | 0.015 |
| 158.01 | 1 | 0.22 | 3.28 | 0 | 0.030 |
| 158.01 | 2 | 1.06 | 3.28 | 100 | 0.015 |
| 158.02 | 1 | 0.08 | 4.76 | 0 | 0.030 |
| 158.02 | 2 | 0.37 | 4.76 | 100 | 0.015 |
| 158.03 | 1 | 0.20 | 2.01 | 0 | 0.030 |
| 158.03 | 2 | 0.97 | 2.01 | 100 | 0.015 |
| 158.04 | 1 | 0.18 | 1.15 | 0 | 0.030 |
| 158.04 | 2 | 0.86 | 1.15 | 100 | 0.015 |
| 159.01 | 1 | 0.19 | 2.78 | 0 | 0.030 |
| 159.01 | 2 | 0.84 | 2.78 | 100 | 0.015 |
| 160.01 | 1 | 0.17 | 4.64 | 0 | 0.030 |
| 160.01 | 2 | 0.80 | 4.64 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 160.02 | 1 | 0.25 | 3.11 | 0 | 0.030 |
| 160.02 | 2 | 1.16 | 3.11 | 100 | 0.015 |
| 161.01 | 1 | 0.19 | 3.53 | 0 | 0.030 |
| 161.01 | 2 | 0.99 | 3.53 | 100 | 0.015 |
| 161.02 | 1 | 0.22 | 2.11 | 0 | 0.030 |
| 161.02 | 2 | 1.02 | 2.11 | 100 | 0.015 |
| 162.01 | 1 | 0.27 | 1.70 | 0 | 0.030 |
| 162.01 | 2 | 1.25 | 1.70 | 100 | 0.015 |
| 163.01 | 1 | 0.40 | 5.11 | 0 | 0.030 |
| 163.01 | 2 | 0.59 | 5.11 | 100 | 0.015 |
| 163.02 | 1 | 0.15 | 4.96 | 0 | 0.030 |
| 163.02 | 2 | 0.71 | 4.96 | 100 | 0.015 |
| 163.03 | 1 | 0.19 | 2.08 | 0 | 0.030 |
| 163.03 | 2 | 0.97 | 2.08 | 100 | 0.015 |
| 163.04 | 1 | 0.19 | 2.52 | 0 | 0.030 |
| 163.04 | 2 | 0.93 | 2.52 | 100 | 0.015 |
| 163.05 | 1 | 0.33 | 1.84 | 0 | 0.030 |
| 163.05 | 2 | 1.45 | 1.84 | 100 | 0.015 |
| 164.01 | 1 | 0.24 | 1.34 | 0 | 0.030 |
| 164.01 | 2 | 1.10 | 1.34 | 100 | 0.015 |
| 165.01 | 1 | 0.19 | 1.32 | 0 | 0.030 |
| 165.01 | 2 | 0.94 | 1.32 | 100 | 0.015 |
| 165.02 | 1 | 0.14 | 1.07 | 0 | 0.030 |
| 165.02 | 2 | 0.67 | 1.07 | 100 | 0.015 |
| 165.03 | 1 | 0.21 | 1.02 | 0 | 0.030 |
| 165.03 | 2 | 0.77 | 1.02 | 100 | 0.015 |
| 165.04 | 1 | 0.17 | 2.02 | 0 | 0.030 |
| 165.04 | 2 | 0.81 | 2.02 | 100 | 0.015 |
| 165.05 | 1 | 0.26 | 0.54 | 0 | 0.030 |
| 165.05 | 2 | 1.22 | 0.54 | 100 | 0.015 |
| 166.01 | 1 | 0.17 | 1.12 | 0 | 0.030 |
| 166.01 | 2 | 0.86 | 1.12 | 100 | 0.015 |
| 167.01 | 1 | 0.24 | 5.85 | 0 | 0.030 |
| 167.01 | 2 | 1.15 | 5.85 | 100 | 0.015 |
| 167.02 | 1 | 0.20 | 5.37 | 0 | 0.030 |
| 167.02 | 2 | 1.01 | 5.37 | 100 | 0.015 |
| 168.01 | 1 | 0.21 | 2.34 | 0 | 0.030 |
| 168.01 | 2 | 0.98 | 2.34 | 100 | 0.015 |
| 169.01 | 1 | 0.21 | 1.16 | 0 | 0.030 |
| 169.01 | 2 | 0.95 | 1.16 | 100 | 0.015 |
| 169.02 | 1 | 0.32 | 1.38 | 0 | 0.030 |
| 169.02 | 2 | 0.84 | 1.38 | 100 | 0.015 |
| 169.03 | 1 | 0.29 | 0.77 | 0 | 0.030 |
| 169.03 | 2 | 1.42 | 0.77 | 100 | 0.015 |
| 170.01 | 1 | 0.18 | 1.71 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 170.01 | 2 | 0.83 | 1.71 | 100 | 0.015 |
| 171.01 | 1 | 0.06 | 2.41 | 0 | 0.030 |
| 171.01 | 2 | 0.57 | 2.41 | 100 | 0.015 |
| 172.01 | 1 | 0.16 | 6.04 | 0 | 0.030 |
| 172.01 | 2 | 1.11 | 6.04 | 100 | 0.015 |
| 172.02 | 1 | 0.17 | 1.94 | 0 | 0.030 |
| 172.02 | 2 | 0.90 | 1.94 | 100 | 0.015 |
| 173.01 | 1 | 2.55 | 2.25 | 0 | 0.030 |
| 173.01 | 2 | 0.55 | 2.25 | 100 | 0.015 |
| 173.02 | 1 | 0.87 | 2.75 | 0 | 0.030 |
| 173.02 | 2 | 1.53 | 2.75 | 100 | 0.015 |
| 173.03 | 1 | 0.04 | 2.78 | 0 | 0.030 |
| 173.03 | 2 | 0.34 | 2.78 | 100 | 0.015 |
| 173.04 | 1 | 0.49 | 3.27 | 0 | 0.030 |
| 173.04 | 2 | 2.28 | 3.27 | 100 | 0.015 |
| 173.05 | 1 | 0.25 | 3.04 | 0 | 0.030 |
| 173.05 | 2 | 1.29 | 3.04 | 100 | 0.015 |
| 174.01 | 1 | 0.10 | 2.40 | 0 | 0.030 |
| 174.01 | 2 | 0.73 | 2.40 | 100 | 0.015 |
| 175.01 | 1 | 0.27 | 4.03 | 0 | 0.030 |
| 175.01 | 2 | 1.25 | 4.03 | 100 | 0.015 |
| 175.02 | 1 | 0.30 | 5.51 | 0 | 0.030 |
| 175.02 | 2 | 1.45 | 5.51 | 100 | 0.015 |
| 175.03 | 1 | 0.42 | 2.95 | 0 | 0.030 |
| 175.03 | 2 | 1.71 | 2.95 | 100 | 0.015 |
| 175.04 | 1 | 0.13 | 0.92 | 0 | 0.030 |
| 175.04 | 2 | 0.62 | 0.92 | 100 | 0.015 |
| 175.05 | 1 | 0.23 | 2.29 | 0 | 0.030 |
| 175.05 | 2 | 0.99 | 2.29 | 100 | 0.015 |
| 176.01 | 1 | 0.40 | 2.38 | 0 | 0.030 |
| 176.01 | 2 | 0.50 | 2.38 | 100 | 0.015 |
| 177.01 | 1 | 0.13 | 6.08 | 0 | 0.030 |
| 177.01 | 2 | 0.69 | 6.08 | 100 | 0.015 |
| 177.02 | 1 | 0.28 | 5.24 | 0 | 0.030 |
| 177.02 | 2 | 1.28 | 5.24 | 100 | 0.015 |
| 177.03 | 1 | 0.22 | 2.44 | 0 | 0.030 |
| 177.03 | 2 | 1.13 | 2.44 | 100 | 0.015 |
| 177.04 | 1 | 0.18 | 4.11 | 0 | 0.030 |
| 177.04 | 2 | 0.89 | 4.11 | 100 | 0.015 |
| 178.01 | 1 | 0.35 | 2.62 | 0 | 0.030 |
| 178.01 | 2 | 1.59 | 2.62 | 100 | 0.015 |
| 178.02 | 1 | 0.21 | 4.70 | 0 | 0.030 |
| 178.02 | 2 | 0.92 | 4.70 | 100 | 0.015 |
| 179.01 | 1 | 0.26 | 3.87 | 0 | 0.030 |
| 179.01 | 2 | 1.25 | 3.87 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 180.01 | 1 | 0.27 | 2.49 | 0 | 0.030 |
| 180.01 | 2 | 1.25 | 2.49 | 100 | 0.015 |
| 180.02 | 1 | 0.44 | 2.20 | 0 | 0.030 |
| 180.02 | 2 | 0.96 | 2.20 | 100 | 0.015 |
| 180.03 | 1 | 0.20 | 3.72 | 0 | 0.030 |
| 180.03 | 2 | 0.95 | 3.72 | 100 | 0.015 |
| 180.04 | 1 | 0.30 | 2.44 | 0 | 0.030 |
| 180.04 | 2 | 1.42 | 2.44 | 100 | 0.015 |
| 181.01 | 1 | 0.52 | 2.44 | 0 | 0.030 |
| 181.01 | 2 | 0.45 | 2.44 | 100 | 0.015 |
| 181.02 | 1 | 0.24 | 3.15 | 0 | 0.030 |
| 181.02 | 2 | 1.40 | 3.15 | 100 | 0.015 |
| 181.03 | 1 | 0.27 | 1.94 | 0 | 0.030 |
| 181.03 | 2 | 1.35 | 1.94 | 100 | 0.015 |
| 181.04 | 1 | 0.06 | 5.87 | 0 | 0.030 |
| 181.04 | 2 | 0.33 | 5.87 | 100 | 0.015 |
| 181.05 | 1 | 0.19 | 3.60 | 0 | 0.030 |
| 181.05 | 2 | 0.88 | 3.60 | 100 | 0.015 |
| 181.06 | 1 | 0.17 | 5.80 | 0 | 0.030 |
| 181.06 | 2 | 0.90 | 5.80 | 100 | 0.015 |
| 181.07 | 1 | 0.13 | 3.89 | 0 | 0.030 |
| 181.07 | 2 | 0.66 | 3.89 | 100 | 0.015 |
| 181.08 | 1 | 0.16 | 2.81 | 0 | 0.030 |
| 181.08 | 2 | 0.77 | 2.81 | 100 | 0.015 |
| 182.01 | 1 | 0.23 | 2.64 | 0 | 0.030 |
| 182.01 | 2 | 0.86 | 2.64 | 100 | 0.015 |
| 182.02 | 1 | 0.20 | 2.82 | 0 | 0.030 |
| 182.02 | 2 | 0.60 | 2.82 | 100 | 0.015 |
| 182.03 | 1 | 0.90 | 2.88 | 0 | 0.030 |
| 182.03 | 2 | 0.83 | 2.88 | 100 | 0.015 |
| 183.01 | 1 | 0.50 | 3.02 | 0 | 0.030 |
| 183.01 | 2 | 0.78 | 3.02 | 100 | 0.015 |
| 183.02 | 1 | 0.23 | 3.32 | 0 | 0.030 |
| 183.02 | 2 | 1.19 | 3.32 | 100 | 0.015 |
| 183.03 | 1 | 0.23 | 4.23 | 0 | 0.030 |
| 183.03 | 2 | 1.15 | 4.23 | 100 | 0.015 |
| 183.04 | 1 | 0.21 | 5.39 | 0 | 0.030 |
| 183.04 | 2 | 1.03 | 5.39 | 100 | 0.015 |
| 184.01 | 1 | 0.63 | 3.11 | 0 | 0.030 |
| 184.01 | 2 | 2.03 | 3.11 | 100 | 0.015 |
| 185.01 | 1 | 0.24 | 3.42 | 0 | 0.030 |
| 185.01 | 2 | 1.18 | 3.42 | 100 | 0.015 |
| 185.02 | 1 | 0.34 | 5.57 | 0 | 0.030 |
| 185.02 | 2 | 1.59 | 5.57 | 100 | 0.015 |
| 186.01 | 1 | 0.11 | 0.49 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 186.01 | 2 | 0.45 | 0.49 | 100 | 0.015 |
| 187.01 | 1 | 0.24 | 5.28 | 0 | 0.030 |
| 187.01 | 2 | 1.17 | 5.28 | 100 | 0.015 |
| 187.02 | 1 | 0.28 | 2.90 | 0 | 0.030 |
| 187.02 | 2 | 1.30 | 2.90 | 100 | 0.015 |
| 187.03 | 1 | 0.10 | 1.23 | 0 | 0.030 |
| 187.03 | 2 | 0.58 | 1.23 | 100 | 0.015 |
| 187.04 | 1 | 0.17 | 5.37 | 0 | 0.030 |
| 187.04 | 2 | 1.16 | 5.37 | 100 | 0.015 |
| 187.05 | 1 | 0.15 | 4.62 | 0 | 0.030 |
| 187.05 | 2 | 0.86 | 4.62 | 100 | 0.015 |
| 188.01 | 1 | 0.26 | 5.50 | 0 | 0.030 |
| 188.01 | 2 | 1.23 | 5.50 | 100 | 0.015 |
| 188.02 | 1 | 0.15 | 3.45 | 0 | 0.030 |
| 188.02 | 2 | 0.70 | 3.45 | 100 | 0.015 |
| 189.01 | 1 | 0.29 | 4.34 | 0 | 0.030 |
| 189.01 | 2 | 1.41 | 4.34 | 100 | 0.015 |
| 189.02 | 1 | 0.27 | 1.18 | 0 | 0.030 |
| 189.02 | 2 | 1.33 | 1.18 | 100 | 0.015 |
| 190.01 | 1 | 0.10 | 8.45 | 0 | 0.030 |
| 190.01 | 2 | 0.61 | 8.45 | 100 | 0.015 |
| 191.01 | 1 | 0.23 | 4.95 | 0 | 0.030 |
| 191.01 | 2 | 1.12 | 4.95 | 100 | 0.015 |
| 191.02 | 1 | 0.13 | 2.99 | 0 | 0.030 |
| 191.02 | 2 | 0.59 | 2.99 | 100 | 0.015 |
| 191.03 | 1 | 0.36 | 2.94 | 0 | 0.030 |
| 191.03 | 2 | 1.59 | 2.94 | 100 | 0.015 |
| 191.04 | 1 | 0.32 | 3.80 | 0 | 0.030 |
| 191.04 | 2 | 1.53 | 3.80 | 100 | 0.015 |
| 191.05 | 1 | 0.45 | 1.75 | 0 | 0.030 |
| 191.05 | 2 | 2.21 | 1.75 | 100 | 0.015 |
| 191.06 | 1 | 1.73 | 2.15 | 0 | 0.030 |
| 191.06 | 2 | 1.25 | 2.15 | 100 | 0.015 |
| 191.07 | 1 | 0.84 | 5.52 | 0 | 0.030 |
| 191.07 | 2 | 0.97 | 5.52 | 100 | 0.015 |
| 191.08 | 1 | 1.49 | 3.76 | 0 | 0.030 |
| 191.08 | 2 | 1.76 | 3.76 | 100 | 0.015 |
| 192.01 | 1 | 1.02 | 2.61 | 0 | 0.030 |
| 192.01 | 2 | 3.88 | 2.61 | 100 | 0.015 |
| 193.01 | 1 | 0.69 | 2.70 | 0 | 0.030 |
| 193.01 | 2 | 1.66 | 2.70 | 100 | 0.015 |
| 194.01 | 1 | 1.18 | 4.20 | 0 | 0.030 |
| 194.01 | 2 | 1.55 | 4.20 | 100 | 0.015 |
| 194.02 | 1 | 5.12 | 3.89 | 0 | 0.030 |
| 194.02 | 2 | 1.92 | 3.89 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 194.03 | 1 | 0.65 | 5.78 | 0 | 0.030 |
| 194.03 | 2 | 1.56 | 5.78 | 100 | 0.015 |
| 195.01 | 1 | 4.27 | 4.41 | 0 | 0.030 |
| 195.01 | 2 | 0.76 | 4.41 | 100 | 0.015 |
| 196.01 | 1 | 3.20 | 4.22 | 0 | 0.030 |
| 196.01 | 2 | 5.41 | 4.22 | 100 | 0.015 |
| 197.01 | 1 | 2.42 | 7.36 | 0 | 0.030 |
| 197.01 | 2 | 3.22 | 7.36 | 100 | 0.015 |
| 198.01 | 1 | 5.73 | 10.43 | 0 | 0.030 |
| 198.01 | 2 | 0.64 | 10.43 | 100 | 0.015 |
| 200.01 | 1 | 0.27 | 1.35 | 0 | 0.030 |
| 200.01 | 2 | 1.22 | 1.35 | 100 | 0.015 |
| 200.02 | 1 | 0.40 | 0.78 | 0 | 0.030 |
| 200.02 | 2 | 0.93 | 0.78 | 100 | 0.015 |
| 200.03 | 1 | 0.80 | 2.47 | 0 | 0.030 |
| 200.03 | 2 | 1.84 | 2.47 | 100 | 0.015 |
| 200.04 | 1 | 0.88 | 9.82 | 0 | 0.030 |
| 200.04 | 2 | 1.72 | 9.82 | 100 | 0.015 |
| 200.05 | 1 | 0.36 | 7.99 | 0 | 0.030 |
| 200.05 | 2 | 0.84 | 7.99 | 100 | 0.015 |
| 200.06 | 1 | 2.88 | 11.07 | 0 | 0.030 |
| 200.06 | 2 | 1.09 | 11.07 | 100 | 0.015 |
| 200.07 | 1 | 2.44 | 18.99 | 0 | 0.030 |
| 200.07 | 2 | 0.42 | 18.99 | 100 | 0.015 |
| 200.08 | 1 | 3.76 | 21.56 | 0 | 0.030 |
| 200.08 | 2 | 0.56 | 21.56 | 100 | 0.015 |
| 200.09 | 1 | 5.26 | 23.35 | 0 | 0.030 |
| 200.09 | 2 | 0.58 | 23.35 | 100 | 0.015 |
| 201.01 | 1 | 0.26 | 3.06 | 0 | 0.030 |
| 201.01 | 2 | 1.43 | 3.06 | 100 | 0.015 |
| 202.01 | 1 | 0.16 | 2.82 | 0 | 0.030 |
| 202.01 | 2 | 1.48 | 2.82 | 100 | 0.015 |
| 203.01 | 1 | 0.40 | 5.77 | 0 | 0.030 |
| 203.01 | 2 | 1.40 | 5.77 | 100 | 0.015 |
| 204.01 | 1 | 1.05 | 11.60 | 0 | 0.030 |
| 204.01 | 2 | 1.64 | 11.60 | 100 | 0.015 |
| 205.01 | 1 | 0.98 | 4.20 | 0 | 0.030 |
| 205.01 | 2 | 0.45 | 4.20 | 100 | 0.015 |
| 206.01 | 1 | 6.41 | 24.07 | 0 | 0.030 |
| 206.01 | 2 | 2.87 | 24.07 | 100 | 0.015 |
| 207.01 | 1 | 0.22 | 1.66 | 0 | 0.030 |
| 207.01 | 2 | 1.48 | 1.66 | 100 | 0.015 |
| 207.02 | 1 | 0.39 | 3.77 | 0 | 0.030 |
| 207.02 | 2 | 1.39 | 3.77 | 100 | 0.015 |
| 207.03 | 1 | 0.31 | 2.69 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 207.03 | 2 | 0.28 | 2.69 | 100 | 0.015 |
| 207.04 | 1 | 0.13 | 2.07 | 0 | 0.030 |
| 207.04 | 2 | 0.64 | 2.07 | 100 | 0.015 |
| 207.05 | 1 | 0.13 | 3.98 | 0 | 0.030 |
| 207.05 | 2 | 0.61 | 3.98 | 100 | 0.015 |
| 207.06 | 1 | 0.30 | 3.56 | 0 | 0.030 |
| 207.06 | 2 | 1.30 | 3.56 | 100 | 0.015 |
| 207.07 | 1 | 1.18 | 6.67 | 0 | 0.030 |
| 207.07 | 2 | 0.59 | 6.67 | 100 | 0.015 |
| 207.08 | 1 | 1.64 | 11.00 | 0 | 0.030 |
| 207.08 | 2 | 1.68 | 11.00 | 100 | 0.015 |
| 207.09 | 1 | 1.72 | 14.60 | 0 | 0.030 |
| 207.09 | 2 | 0.79 | 14.60 | 100 | 0.015 |
| 207.10 | 1 | 1.78 | 16.02 | 0 | 0.030 |
| 207.10 | 2 | 1.07 | 16.02 | 100 | 0.015 |
| 207.11 | 1 | 4.01 | 15.94 | 0 | 0.030 |
| 207.11 | 2 | 1.34 | 15.94 | 100 | 0.015 |
| 207.12 | 1 | 0.35 | 21.97 | 0 | 0.030 |
| 207.12 | 2 | 0.04 | 21.97 | 100 | 0.015 |
| 207.13 | 1 | 2.98 | 21.56 | 0 | 0.030 |
| 207.13 | 2 | 0.33 | 21.56 | 100 | 0.015 |
| 207.14 | 1 | 5.13 | 23.55 | 0 | 0.030 |
| 207.14 | 2 | 0.57 | 23.55 | 100 | 0.015 |
| 208.01 | 1 | 1.29 | 4.29 | 0 | 0.030 |
| 208.01 | 2 | 0.37 | 4.29 | 100 | 0.015 |
| 208.02 | 1 | 0.22 | 2.27 | 0 | 0.030 |
| 208.02 | 2 | 0.63 | 2.27 | 100 | 0.015 |
| 208.03 | 1 | 0.30 | 2.89 | 0 | 0.030 |
| 208.03 | 2 | 0.64 | 2.89 | 100 | 0.015 |
| 208.04 | 1 | 0.21 | 2.78 | 0 | 0.030 |
| 208.04 | 2 | 1.02 | 2.78 | 100 | 0.015 |
| 208.05 | 1 | 0.21 | 2.40 | 0 | 0.030 |
| 208.05 | 2 | 0.98 | 2.40 | 100 | 0.015 |
| 209.01 | 1 | 0.22 | 0.87 | 0 | 0.030 |
| 209.01 | 2 | 1.00 | 0.87 | 100 | 0.015 |
| 210.01 | 1 | 0.42 | 3.10 | 0 | 0.030 |
| 210.01 | 2 | 2.12 | 3.10 | 100 | 0.015 |
| 210.02 | 1 | 0.21 | 4.01 | 0 | 0.030 |
| 210.02 | 2 | 0.92 | 4.01 | 100 | 0.015 |
| 211.01 | 1 | 1.31 | 2.46 | 0 | 0.030 |
| 211.01 | 2 | 0.37 | 2.46 | 100 | 0.015 |
| 211.02 | 1 | 2.22 | 2.39 | 0 | 0.030 |
| 211.02 | 2 | 0.26 | 2.39 | 100 | 0.015 |
| 211.03 | 1 | 0.71 | 7.15 | 0 | 0.030 |
| 211.03 | 2 | 0.35 | 7.15 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 211.04 | 1 | 0.64 | 8.85 | 0 | 0.030 |
| 211.04 | 2 | 0.61 | 8.85 | 100 | 0.015 |
| 212.01 | 1 | 1.10 | 0.38 | 0 | 0.030 |
| 212.01 | 2 | 0.12 | 0.38 | 100 | 0.015 |
| 212.02 | 1 | 0.58 | 2.82 | 0 | 0.030 |
| 212.02 | 2 | 0.16 | 2.82 | 100 | 0.015 |
| 213.01 | 1 | 0.14 | 5.67 | 0 | 0.030 |
| 213.01 | 2 | 0.83 | 5.67 | 100 | 0.015 |
| 213.02 | 1 | 0.13 | 6.02 | 0 | 0.030 |
| 213.02 | 2 | 0.61 | 6.02 | 100 | 0.015 |
| 214.01 | 1 | 0.22 | 5.70 | 0 | 0.030 |
| 214.01 | 2 | 1.02 | 5.70 | 100 | 0.015 |
| 214.02 | 1 | 0.22 | 5.87 | 0 | 0.030 |
| 214.02 | 2 | 1.19 | 5.87 | 100 | 0.015 |
| 215.01 | 1 | 0.20 | 1.55 | 0 | 0.030 |
| 215.01 | 2 | 0.89 | 1.55 | 100 | 0.015 |
| 215.02 | 1 | 0.16 | 2.46 | 0 | 0.030 |
| 215.02 | 2 | 0.77 | 2.46 | 100 | 0.015 |
| 216.01 | 1 | 0.37 | 3.85 | 0 | 0.030 |
| 216.01 | 2 | 0.50 | 3.85 | 100 | 0.015 |
| 216.02 | 1 | 0.30 | 1.91 | 0 | 0.030 |
| 216.02 | 2 | 0.50 | 1.91 | 100 | 0.015 |
| 216.03 | 1 | 0.28 | 2.61 | 0 | 0.030 |
| 216.03 | 2 | 0.92 | 2.61 | 100 | 0.015 |
| 216.04 | 1 | 0.26 | 3.60 | 0 | 0.030 |
| 216.04 | 2 | 1.22 | 3.60 | 100 | 0.015 |
| 217.01 | 1 | 0.33 | 4.48 | 0 | 0.030 |
| 217.01 | 2 | 0.28 | 4.48 | 100 | 0.015 |
| 218.01 | 1 | 0.28 | 3.80 | 0 | 0.030 |
| 218.01 | 2 | 0.19 | 3.80 | 100 | 0.015 |
| 219.01 | 1 | 0.31 | 4.56 | 0 | 0.030 |
| 219.01 | 2 | 0.32 | 4.56 | 100 | 0.015 |
| 220.01 | 1 | 0.18 | 3.95 | 0 | 0.030 |
| 220.01 | 2 | 0.85 | 3.95 | 100 | 0.015 |
| 221.01 | 1 | 0.17 | 4.49 | 0 | 0.030 |
| 221.01 | 2 | 0.78 | 4.49 | 100 | 0.015 |
| 221.02 | 1 | 0.21 | 3.66 | 0 | 0.030 |
| 221.02 | 2 | 1.04 | 3.66 | 100 | 0.015 |
| 221.03 | 1 | 0.09 | 3.25 | 0 | 0.030 |
| 221.03 | 2 | 0.46 | 3.25 | 100 | 0.015 |
| 221.04 | 1 | 0.23 | 2.63 | 0 | 0.030 |
| 221.04 | 2 | 1.06 | 2.63 | 100 | 0.015 |
| 221.05 | 1 | 0.24 | 2.65 | 0 | 0.030 |
| 221.05 | 2 | 1.14 | 2.65 | 100 | 0.015 |
| 221.06 | 1 | 0.07 | 1.46 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 221.06 | 2 | 0.37 | 1.46 | 100 | 0.015 |
| 222.01 | 1 | 0.20 | 2.65 | 0 | 0.030 |
| 222.01 | 2 | 0.87 | 2.65 | 100 | 0.015 |
| 222.02 | 1 | 0.13 | 3.13 | 0 | 0.030 |
| 222.02 | 2 | 0.59 | 3.13 | 100 | 0.015 |
| 222.03 | 1 | 1.22 | 15.01 | 0 | 0.030 |
| 222.03 | 2 | 0.93 | 15.01 | 100 | 0.015 |
| 223.01 | 1 | 0.08 | 3.63 | 0 | 0.030 |
| 223.01 | 2 | 0.36 | 3.63 | 100 | 0.015 |
| 224.01 | 1 | 1.58 | 8.91 | 0 | 0.030 |
| 224.01 | 2 | 0.18 | 8.91 | 100 | 0.015 |
| 225.01 | 1 | 0.15 | 1.73 | 0 | 0.030 |
| 225.01 | 2 | 0.71 | 1.73 | 100 | 0.015 |
| 226.01 | 1 | 0.31 | 4.69 | 0 | 0.030 |
| 226.01 | 2 | 0.26 | 4.69 | 100 | 0.015 |
| 226.02 | 1 | 0.10 | 2.06 | 0 | 0.030 |
| 226.02 | 2 | 0.50 | 2.06 | 100 | 0.015 |
| 226.03 | 1 | 0.09 | 2.35 | 0 | 0.030 |
| 226.03 | 2 | 0.47 | 2.35 | 100 | 0.015 |
| 226.04 | 1 | 0.09 | 3.22 | 0 | 0.030 |
| 226.04 | 2 | 0.57 | 3.22 | 100 | 0.015 |
| 226.05 | 1 | 0.67 | 11.15 | 0 | 0.030 |
| 226.05 | 2 | 0.76 | 11.15 | 100 | 0.015 |
| 226.06 | 1 | 0.48 | 12.01 | 0 | 0.030 |
| 226.06 | 2 | 1.59 | 12.01 | 100 | 0.015 |
| 226.07 | 1 | 0.97 | 10.86 | 0 | 0.030 |
| 226.07 | 2 | 1.76 | 10.86 | 100 | 0.015 |
| 226.08 | 1 | 1.18 | 23.45 | 0 | 0.030 |
| 226.08 | 2 | 0.26 | 23.45 | 100 | 0.015 |
| 227.01 | 1 | 0.05 | 3.97 | 0 | 0.030 |
| 227.01 | 2 | 0.26 | 3.97 | 100 | 0.015 |
| 228.01 | 1 | 0.12 | 2.92 | 0 | 0.030 |
| 228.01 | 2 | 0.56 | 2.92 | 100 | 0.015 |
| 229.01 | 1 | 0.09 | 1.79 | 0 | 0.030 |
| 229.01 | 2 | 0.40 | 1.79 | 100 | 0.015 |
| 230.01 | 1 | 0.09 | 1.18 | 0 | 0.030 |
| 230.01 | 2 | 0.41 | 1.18 | 100 | 0.015 |
| 231.01 | 1 | 0.10 | 1.41 | 0 | 0.030 |
| 231.01 | 2 | 0.45 | 1.41 | 100 | 0.015 |
| 232.01 | 1 | 0.24 | 1.18 | 0 | 0.030 |
| 232.01 | 2 | 1.18 | 1.18 | 100 | 0.015 |
| 232.02 | 1 | 0.16 | 3.97 | 0 | 0.030 |
| 232.02 | 2 | 0.68 | 3.97 | 100 | 0.015 |
| 232.03 | 1 | 0.23 | 3.26 | 0 | 0.030 |
| 232.03 | 2 | 1.14 | 3.26 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 233.01 | 1 | 0.17 | 3.23 | 0 | 0.030 |
| 233.01 | 2 | 0.76 | 3.23 | 100 | 0.015 |
| 233.02 | 1 | 0.12 | 3.50 | 0 | 0.030 |
| 233.02 | 2 | 0.57 | 3.50 | 100 | 0.015 |
| 234.01 | 1 | 0.51 | 2.51 | 0 | 0.030 |
| 234.01 | 2 | 0.87 | 2.51 | 100 | 0.015 |
| 234.02 | 1 | 0.38 | 2.94 | 0 | 0.030 |
| 234.02 | 2 | 0.60 | 2.94 | 100 | 0.015 |
| 234.03 | 1 | 0.24 | 3.07 | 0 | 0.030 |
| 234.03 | 2 | 1.03 | 3.07 | 100 | 0.015 |
| 235.01 | 1 | 0.43 | 2.20 | 0 | 0.030 |
| 235.01 | 2 | 0.02 | 2.20 | 100 | 0.015 |
| 236.01 | 1 | 0.09 | 2.41 | 0 | 0.030 |
| 236.01 | 2 | 0.52 | 2.41 | 100 | 0.015 |
| 236.02 | 1 | 0.07 | 3.28 | 0 | 0.030 |
| 236.02 | 2 | 0.28 | 3.28 | 100 | 0.015 |
| 237.01 | 1 | 0.24 | 2.50 | 0 | 0.030 |
| 237.01 | 2 | 0.63 | 2.50 | 100 | 0.015 |
| 237.02 | 1 | 1.02 | 3.31 | 0 | 0.030 |
| 237.02 | 2 | 0.53 | 3.31 | 100 | 0.015 |
| 238.01 | 1 | 0.08 | 3.11 | 0 | 0.030 |
| 238.01 | 2 | 0.45 | 3.11 | 100 | 0.015 |
| 238.02 | 1 | 0.14 | 2.37 | 0 | 0.030 |
| 238.02 | 2 | 0.66 | 2.37 | 100 | 0.015 |
| 239.01 | 1 | 0.12 | 5.73 | 0 | 0.030 |
| 239.01 | 2 | 0.57 | 5.73 | 100 | 0.015 |
| 240.01 | 1 | 2.53 | 3.97 | 0 | 0.030 |
| 240.01 | 2 | 0.60 | 3.97 | 100 | 0.015 |
| 240.02 | 1 | 1.29 | 27.76 | 0 | 0.030 |
| 240.02 | 2 | 0.14 | 27.76 | 100 | 0.015 |
| 241.01 | 1 | 9.82 | 26.11 | 0 | 0.030 |
| 241.01 | 2 | 1.09 | 26.11 | 100 | 0.015 |
| 242.01 | 1 | 0.18 | 0.93 | 0 | 0.030 |
| 242.01 | 2 | 0.89 | 0.93 | 100 | 0.015 |
| 242.02 | 1 | 0.32 | 1.69 | 0 | 0.030 |
| 242.02 | 2 | 1.45 | 1.69 | 100 | 0.015 |
| 242.03 | 1 | 0.24 | 2.30 | 0 | 0.030 |
| 242.03 | 2 | 1.14 | 2.30 | 100 | 0.015 |
| 242.04 | 1 | 0.05 | 2.62 | 0 | 0.030 |
| 242.04 | 2 | 0.25 | 2.62 | 100 | 0.015 |
| 242.05 | 1 | 0.35 | 5.92 | 0 | 0.030 |
| 242.05 | 2 | 1.60 | 5.92 | 100 | 0.015 |
| 242.06 | 1 | 0.59 | 6.46 | 0 | 0.030 |
| 242.06 | 2 | 2.30 | 6.46 | 100 | 0.015 |
| 242.07 | 1 | 1.09 | 13.39 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 242.07 | 2 | 0.28 | 13.39 | 100 | 0.015 |
| 242.08 | 1 | 7.53 | 26.92 | 0 | 0.030 |
| 242.08 | 2 | 0.84 | 26.92 | 100 | 0.015 |
| 243.01 | 1 | 0.53 | 2.12 | 0 | 0.030 |
| 243.01 | 2 | 0.38 | 2.12 | 100 | 0.015 |
| 243.02 | 1 | 0.25 | 3.87 | 0 | 0.030 |
| 243.02 | 2 | 1.13 | 3.87 | 100 | 0.015 |
| 244.01 | 1 | 0.72 | 3.31 | 0 | 0.030 |
| 244.01 | 2 | 0.55 | 3.31 | 100 | 0.015 |
| 245.01 | 1 | 0.11 | 2.57 | 0 | 0.030 |
| 245.01 | 2 | 0.57 | 2.57 | 100 | 0.015 |
| 246.01 | 1 | 0.07 | 1.06 | 0 | 0.030 |
| 246.01 | 2 | 0.41 | 1.06 | 100 | 0.015 |
| 246.02 | 1 | 0.55 | 12.23 | 0 | 0.030 |
| 246.02 | 2 | 0.40 | 12.23 | 100 | 0.015 |
| 247.01 | 1 | 0.36 | 7.60 | 0 | 0.030 |
| 247.01 | 2 | 0.97 | 7.60 | 100 | 0.015 |
| 247.02 | 1 | 1.89 | 15.75 | 0 | 0.030 |
| 247.02 | 2 | 0.60 | 15.75 | 100 | 0.015 |
| 248.01 | 1 | 1.69 | 16.08 | 0 | 0.030 |
| 248.01 | 2 | 0.23 | 16.08 | 100 | 0.015 |
| 249.01 | 1 | 0.52 | 2.07 | 0 | 0.030 |
| 249.01 | 2 | 0.09 | 2.07 | 100 | 0.015 |
| 249.02 | 1 | 0.27 | 3.09 | 0 | 0.030 |
| 249.02 | 2 | 0.44 | 3.09 | 100 | 0.015 |
| 249.03 | 1 | 0.13 | 2.79 | 0 | 0.030 |
| 249.03 | 2 | 0.56 | 2.79 | 100 | 0.015 |
| 249.04 | 1 | 0.43 | 4.50 | 0 | 0.030 |
| 249.04 | 2 | 1.88 | 4.50 | 100 | 0.015 |
| 249.05 | 1 | 1.22 | 8.03 | 0 | 0.030 |
| 249.05 | 2 | 2.96 | 8.03 | 100 | 0.015 |
| 249.06 | 1 | 10.15 | 20.45 | 0 | 0.030 |
| 249.06 | 2 | 2.10 | 20.45 | 100 | 0.015 |
| 250.01 | 1 | 0.05 | 0.10 | 0 | 0.030 |
| 250.01 | 2 | 0.28 | 0.10 | 100 | 0.015 |
| 251.01 | 1 | 0.13 | 1.23 | 0 | 0.030 |
| 251.01 | 2 | 0.64 | 1.23 | 100 | 0.015 |
| 252.01 | 1 | 0.32 | 1.92 | 0 | 0.030 |
| 252.01 | 2 | 0.69 | 1.92 | 100 | 0.015 |
| 252.02 | 1 | 0.14 | 3.22 | 0 | 0.030 |
| 252.02 | 2 | 0.59 | 3.22 | 100 | 0.015 |
| 253.01 | 1 | 0.20 | 2.49 | 0 | 0.030 |
| 253.01 | 2 | 1.04 | 2.49 | 100 | 0.015 |
| 253.02 | 1 | 0.41 | 3.34 | 0 | 0.030 |
| 253.02 | 2 | 1.86 | 3.34 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 253.03 | 1 | 0.20 | 4.19 | 0 | 0.030 |
| 253.03 | 2 | 0.89 | 4.19 | 100 | 0.015 |
| 254.01 | 1 | 0.26 | 2.14 | 0 | 0.030 |
| 254.01 | 2 | 1.06 | 2.14 | 100 | 0.015 |
| 255.01 | 1 | 0.46 | 2.81 | 0 | 0.030 |
| 255.01 | 2 | 0.94 | 2.81 | 100 | 0.015 |
| 256.01 | 1 | 0.28 | 4.05 | 0 | 0.030 |
| 256.01 | 2 | 0.82 | 4.05 | 100 | 0.015 |
| 257.01 | 1 | 0.13 | 5.26 | 0 | 0.030 |
| 257.01 | 2 | 0.46 | 5.26 | 100 | 0.015 |
| 258.01 | 1 | 0.68 | 11.62 | 0 | 0.030 |
| 258.01 | 2 | 2.06 | 11.62 | 100 | 0.015 |
| 258.02 | 1 | 1.89 | 13.99 | 0 | 0.030 |
| 258.02 | 2 | 0.65 | 13.99 | 100 | 0.015 |
| 259.01 | 1 | 0.20 | 0.58 | 0 | 0.030 |
| 259.01 | 2 | 1.03 | 0.58 | 100 | 0.015 |
| 259.02 | 1 | 0.26 | 1.96 | 0 | 0.030 |
| 259.02 | 2 | 1.16 | 1.96 | 100 | 0.015 |
| 259.03 | 1 | 0.19 | 2.02 | 0 | 0.030 |
| 259.03 | 2 | 0.91 | 2.02 | 100 | 0.015 |
| 259.04 | 1 | 0.22 | 0.45 | 0 | 0.030 |
| 259.04 | 2 | 1.07 | 0.45 | 100 | 0.015 |
| 259.05 | 1 | 0.32 | 2.02 | 0 | 0.030 |
| 259.05 | 2 | 1.35 | 2.02 | 100 | 0.015 |
| 259.06 | 1 | 0.08 | 0.10 | 0 | 0.030 |
| 259.06 | 2 | 0.34 | 0.10 | 100 | 0.015 |
| 259.07 | 1 | 0.39 | 9.73 | 0 | 0.030 |
| 259.07 | 2 | 2.11 | 9.73 | 100 | 0.015 |
| 259.08 | 1 | 1.36 | 28.69 | 0 | 0.030 |
| 259.08 | 2 | 1.51 | 28.69 | 100 | 0.015 |
| 259.09 | 1 | 3.90 | 24.62 | 0 | 0.030 |
| 259.09 | 2 | 0.44 | 24.62 | 100 | 0.015 |
| 259.10 | 1 | 1.22 | 26.67 | 0 | 0.030 |
| 259.10 | 2 | 0.24 | 26.67 | 100 | 0.015 |
| 260.01 | 1 | 0.13 | 2.27 | 0 | 0.030 |
| 260.01 | 2 | 0.63 | 2.27 | 100 | 0.015 |
| 261.01 | 1 | 0.17 | 0.89 | 0 | 0.030 |
| 261.01 | 2 | 0.87 | 0.89 | 100 | 0.015 |
| 262.01 | 1 | 0.19 | 2.62 | 0 | 0.030 |
| 262.01 | 2 | 0.92 | 2.62 | 100 | 0.015 |
| 262.02 | 1 | 0.14 | 2.23 | 0 | 0.030 |
| 262.02 | 2 | 0.85 | 2.23 | 100 | 0.015 |
| 263.01 | 1 | 0.23 | 2.38 | 0 | 0.030 |
| 263.01 | 2 | 0.98 | 2.38 | 100 | 0.015 |
| 264.01 | 1 | 0.10 | 4.52 | 0 | 0.030 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 264.01 | 2 | 0.52 | 4.52 | 100 | 0.015 |
| 265.01 | 1 | 0.19 | 2.02 | 0 | 0.030 |
| 265.01 | 2 | 0.71 | 2.02 | 100 | 0.015 |
| 265.02 | 1 | 1.13 | 5.42 | 0 | 0.030 |
| 265.02 | 2 | 0.85 | 5.42 | 100 | 0.015 |
| 265.03 | 1 | 2.13 | 10.63 | 0 | 0.030 |
| 265.03 | 2 | 0.29 | 10.63 | 100 | 0.015 |
| 265.04 | 1 | 3.12 | 22.65 | 0 | 0.030 |
| 265.04 | 2 | 1.29 | 22.65 | 100 | 0.015 |
| 266.01 | 1 | 0.52 | 2.97 | 0 | 0.030 |
| 266.01 | 2 | 0.85 | 2.97 | 100 | 0.015 |
| 266.02 | 1 | 0.34 | 2.45 | 0 | 0.030 |
| 266.02 | 2 | 0.91 | 2.45 | 100 | 0.015 |
| 266.03 | 1 | 0.08 | 3.38 | 0 | 0.030 |
| 266.03 | 2 | 0.43 | 3.38 | 100 | 0.015 |
| 266.04 | 1 | 0.28 | 1.71 | 0 | 0.030 |
| 266.04 | 2 | 0.60 | 1.71 | 100 | 0.015 |
| 266.05 | 1 | 1.03 | 10.63 | 0 | 0.030 |
| 266.05 | 2 | 1.56 | 10.63 | 100 | 0.015 |
| 267.01 | 1 | 0.20 | 3.98 | 0 | 0.030 |
| 267.01 | 2 | 0.84 | 3.98 | 100 | 0.015 |
| 268.01 | 1 | 0.39 | 2.72 | 0 | 0.030 |
| 268.01 | 2 | 1.47 | 2.72 | 100 | 0.015 |
| 268.02 | 1 | 0.89 | 2.79 | 0 | 0.030 |
| 268.02 | 2 | 1.87 | 2.79 | 100 | 0.015 |
| 269.01 | 1 | 0.54 | 3.38 | 0 | 0.030 |
| 269.01 | 2 | 0.53 | 3.38 | 100 | 0.015 |
| 270.01 | 1 | 0.69 | 5.28 | 0 | 0.030 |
| 270.01 | 2 | 0.48 | 5.28 | 100 | 0.015 |
| 271.01 | 1 | 0.39 | 4.66 | 0 | 0.030 |
| 271.01 | 2 | 0.31 | 4.66 | 100 | 0.015 |
| 272.01 | 1 | 1.08 | 4.70 | 0 | 0.030 |
| 272.01 | 2 | 0.73 | 4.70 | 100 | 0.015 |
| 272.02 | 1 | 0.87 | 17.35 | 0 | 0.030 |
| 272.02 | 2 | 0.87 | 17.35 | 100 | 0.015 |
| 272.03 | 1 | 0.52 | 42.40 | 0 | 0.030 |
| 272.03 | 2 | 0.06 | 42.40 | 100 | 0.015 |
| 273.01 | 1 | 0.70 | 13.58 | 0 | 0.030 |
| 273.01 | 2 | 0.71 | 13.58 | 100 | 0.015 |
| 274.01 | 1 | 0.91 | 1.18 | 0 | 0.030 |
| 274.01 | 2 | 0.35 | 1.18 | 100 | 0.015 |
| 274.02 | 1 | 0.36 | 4.66 | 0 | 0.030 |
| 274.02 | 2 | 1.77 | 4.66 | 100 | 0.015 |
| 274.03 | 1 | 0.34 | 3.50 | 0 | 0.030 |
| 274.03 | 2 | 1.43 | 3.50 | 100 | 0.015 |

| Subcatchment ID | Sub-Area | Area [ha] | Catchment Slope [%] | Percentage Impervious [%] | Mannings 'n' |
|---|---|---|---|---|---|
| 274.04 | 1 | 0.36 | 7.15 | 0 | 0.030 |
| 274.04 | 2 | 1.58 | 7.15 | 100 | 0.015 |
| 274.05 | 1 | 1.38 | 36.09 | 0 | 0.030 |
| 274.05 | 2 | 0.35 | 36.09 | 100 | 0.015 |
| 275.01 | 1 | 0.20 | 2.21 | 0 | 0.030 |
| 275.01 | 2 | 0.96 | 2.21 | 100 | 0.015 |
| 276.01 | 1 | 0.13 | 3.84 | 0 | 0.030 |
| 276.01 | 2 | 0.67 | 3.84 | 100 | 0.015 |
| 277.01 | 1 | 0.26 | 7.05 | 0 | 0.030 |
| 277.01 | 2 | 0.82 | 7.05 | 100 | 0.015 |
| 278.01 | 1 | 0.11 | 2.73 | 0 | 0.030 |
| 278.01 | 2 | 0.52 | 2.73 | 100 | 0.015 |
| 278.02 | 1 | 6.99 | 31.09 | 0 | 0.030 |
| 278.02 | 2 | 2.60 | 31.09 | 100 | 0.015 |
| 279.01 | 1 | 0.61 | 6.90 | 0 | 0.030 |
| 279.01 | 2 | 0.76 | 6.90 | 100 | 0.015 |
| 279.02 | 1 | 5.63 | 41.49 | 0 | 0.030 |
| 279.02 | 2 | 1.28 | 41.49 | 100 | 0.015 |
| 280.01 | 1 | 0.42 | 4.64 | 0 | 0.030 |
| 280.01 | 2 | 0.80 | 4.64 | 100 | 0.015 |

# Appendix D

## XP-RAFTS Model Outputs (ARR1987)

## PEAK DESIGN FLOOD DISCHARGES - 1% AEP (ARR1987)

| Subcatchment ID | Peak Discharge ($m^3/s$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 min | 20 min | 30 min | 60 min | 90 min | 120 min | 180 min | 360 min | 720 min | 1440 min | 2880 min | 4320 min |
| 1.01 | 0.70 | 0.76 | 0.78 | 0.82 | **0.88** | 0.82 | 0.50 | 0.32 | 0.28 | 0.18 | 0.14 | 0.10 |
| 1.02 | 1.50 | 1.66 | 1.71 | 1.79 | **1.92** | 1.77 | 1.10 | 0.70 | 0.61 | 0.40 | 0.32 | 0.22 |
| 1.03 | 1.83 | 2.02 | 2.00 | 2.09 | **2.26** | 2.10 | 1.29 | 0.82 | 0.72 | 0.47 | 0.37 | 0.26 |
| 1.04 | 4.75 | 5.35 | 5.55 | 5.83 | **6.24** | 5.78 | 3.55 | 2.26 | 1.98 | 1.29 | 1.02 | 0.73 |
| 1.05 | 5.24 | 5.87 | 5.95 | 6.28 | **6.65** | 6.29 | 3.88 | 2.48 | 2.17 | 1.41 | 1.12 | 0.80 |
| 1.06 | 6.19 | 6.94 | 6.98 | 7.35 | **7.75** | 7.41 | 4.57 | 2.92 | 2.55 | 1.66 | 1.31 | 0.94 |
| 1.07 | 6.36 | 7.12 | 7.11 | 7.46 | **7.86** | 7.57 | 4.68 | 3.00 | 2.62 | 1.71 | 1.35 | 0.96 |
| 1.08 | 16.58 | 18.20 | 17.30 | 18.18 | **18.96** | 18.89 | 11.91 | 7.82 | 6.82 | 4.47 | 3.53 | 2.52 |
| 1.09 | 3.33 | 5.52 | 7.16 | 9.04 | 9.19 | **9.45** | 7.22 | 7.01 | 6.77 | 4.92 | 4.02 | 2.87 |
| 1.10 | 3.71 | 5.53 | 7.23 | 9.19 | 9.35 | **9.57** | 7.33 | 7.15 | 6.88 | 5.02 | 4.11 | 2.93 |
| 1.11 | 11.38 | 12.86 | 13.02 | 13.13 | **15.07** | 13.63 | 10.91 | 10.06 | 9.70 | 6.87 | 5.58 | 3.99 |
| 1.12 | 14.11 | 16.26 | 16.21 | 16.40 | **18.21** | 16.36 | 12.62 | 11.25 | 10.79 | 7.61 | 6.16 | 4.41 |
| 1.13 | 16.17 | 18.71 | 18.89 | 18.92 | **20.63** | 19.01 | 14.12 | 12.30 | 11.74 | 8.23 | 6.66 | 4.76 |
| 1.14 | 19.70 | 22.35 | 22.48 | 22.75 | **24.25** | 22.78 | 16.26 | 13.87 | 13.18 | 9.20 | 7.43 | 5.31 |
| 1.15 | 21.69 | 24.59 | 24.62 | 24.43 | **25.64** | 24.88 | 17.57 | 14.78 | 13.93 | 9.74 | 7.87 | 5.63 |
| 1.16 | 25.28 | **29.30** | 27.59 | 27.63 | 28.31 | 29.25 | 19.50 | 16.45 | 15.58 | 10.93 | 8.83 | 6.32 |
| 1.17 | 25.38 | 29.72 | 27.97 | 28.13 | 28.70 | **29.79** | 19.78 | 16.69 | 15.79 | 11.10 | 8.98 | 6.42 |
| 1.18 | 25.58 | 30.84 | 28.91 | 29.37 | 29.69 | **31.11** | 21.01 | 17.39 | 16.51 | 11.60 | 9.38 | 6.70 |
| 1.19 | 20.55 | 25.22 | 26.47 | **28.43** | 28.36 | 28.39 | 23.84 | 21.41 | 20.50 | 16.61 | 18.30 | 10.42 |
| 1.20 | 9.64 | 12.57 | 17.51 | 24.11 | 24.15 | **24.42** | 22.10 | 20.88 | 18.46 | 15.18 | 18.25 | 10.41 |
| 1.21 | 9.26 | 12.21 | 16.13 | 21.36 | 22.42 | **22.87** | 21.22 | 20.20 | 17.42 | 15.21 | 17.99 | 10.65 |
| 1.22 | 9.28 | 12.23 | 16.16 | 21.42 | 22.81 | **23.26** | 21.82 | 20.71 | 17.72 | 15.77 | 18.27 | 11.06 |
| 1.23 | 14.29 | 16.06 | 16.48 | 21.49 | 23.81 | **24.65** | 23.40 | 21.96 | 18.37 | 17.20 | 18.92 | 12.23 |
| 1.24 | 24.29 | 27.81 | 29.44 | 30.94 | **35.04** | 33.48 | 25.77 | 24.15 | 21.56 | 19.33 | 21.14 | 13.98 |
| 1.25 | 24.41 | 28.88 | 30.14 | 31.85 | **35.70** | 34.54 | 26.04 | 24.39 | 21.75 | 19.57 | 21.28 | 14.15 |
| 1.26 | 26.20 | 32.18 | 32.47 | 34.57 | 37.66 | **37.69** | 27.08 | 25.13 | 23.10 | 20.34 | 21.74 | 14.77 |
| 1.27 | 26.44 | 32.61 | 33.03 | 35.16 | 38.15 | **38.25** | 27.55 | 25.32 | 23.35 | 20.53 | 21.89 | 14.87 |
| 1.28 | 28.25 | 38.08 | 41.44 | 44.05 | 45.18 | **46.03** | 34.05 | 30.38 | 29.24 | 23.51 | 24.75 | 17.30 |
| 1.29 | 28.39 | 38.31 | 41.87 | 46.13 | 46.88 | **47.85** | 35.85 | 32.41 | 30.90 | 24.64 | 25.64 | 18.17 |
| 1.30 | 28.44 | 38.39 | 42.06 | 46.71 | 47.47 | **48.45** | 36.40 | 33.05 | 31.47 | 24.99 | 25.96 | 18.45 |
| 1.31 | 28.49 | 38.46 | 42.19 | 47.13 | 47.93 | **48.93** | 36.84 | 33.54 | 31.82 | 25.26 | 26.17 | 18.64 |
| 1.32 | 28.55 | 38.55 | 42.35 | 47.70 | 48.60 | **49.70** | 37.59 | 34.33 | 32.25 | 25.65 | 26.45 | 18.96 |
| 1.33 | 28.66 | 38.71 | 42.62 | 49.01 | 50.25 | **51.69** | 39.57 | 36.27 | 33.17 | 26.65 | 27.16 | 19.79 |
| 1.34 | 28.67 | 38.73 | 42.64 | 49.35 | 50.72 | **52.29** | 40.19 | 36.81 | 33.37 | 26.93 | 27.38 | 20.04 |
| 1.35 | 28.69 | 38.75 | 42.69 | 49.69 | 51.17 | **52.84** | 40.77 | 37.36 | 33.62 | 27.33 | 27.67 | 20.27 |
| 1.36 | 28.78 | 38.89 | 42.92 | 51.72 | 53.74 | **56.03** | 44.38 | 40.55 | 35.86 | 29.89 | 29.64 | 21.75 |
| 2.01 | 0.38 | 0.44 | 0.49 | 0.52 | **0.55** | 0.51 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 3.01 | 0.39 | 0.46 | 0.51 | 0.54 | **0.57** | 0.53 | 0.33 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 3.02 | 1.26 | 1.52 | 1.66 | 1.80 | **1.92** | 1.76 | 1.12 | 0.71 | 0.62 | 0.40 | 0.32 | 0.22 |
| 4.01 | 0.39 | 0.54 | 0.56 | 0.63 | **0.67** | 0.60 | 0.41 | 0.26 | 0.22 | 0.14 | 0.11 | 0.08 |
| 5.01 | 0.36 | 0.41 | 0.45 | 0.45 | **0.47** | 0.44 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 6.01 | 0.48 | 0.56 | 0.53 | 0.54 | **0.57** | 0.55 | 0.29 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 7.01 | 0.64 | 0.72 | 0.77 | 0.79 | **0.84** | 0.78 | 0.46 | 0.29 | 0.26 | 0.17 | 0.13 | 0.09 |
| 8.01 | 0.53 | 0.61 | 0.65 | 0.67 | **0.70** | 0.66 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 8.02 | 1.41 | 1.57 | 1.62 | 1.65 | **1.74** | 1.64 | 0.95 | 0.60 | 0.53 | 0.34 | 0.27 | 0.19 |
| 8.03 | 3.71 | 4.10 | 4.18 | 4.23 | **4.46** | 4.18 | 2.43 | 1.55 | 1.35 | 0.88 | 0.70 | 0.50 |
| 8.04 | 6.54 | 7.19 | 7.25 | 7.38 | **7.80** | 7.32 | 4.27 | 2.72 | 2.37 | 1.55 | 1.23 | 0.88 |
| 8.05 | 7.30 | 8.01 | 7.90 | 8.09 | **8.55** | 8.14 | 4.82 | 3.07 | 2.68 | 1.75 | 1.39 | 0.99 |
| 8.06 | 7.71 | 8.42 | 8.26 | 8.47 | **8.95** | 8.53 | 5.12 | 3.27 | 2.85 | 1.86 | 1.47 | 1.06 |
| 9.01 | 0.50 | 0.57 | 0.57 | 0.57 | **0.61** | 0.58 | 0.32 | 0.20 | 0.18 | 0.12 | 0.09 | 0.07 |
| 10.01 | 0.68 | 0.78 | 0.78 | 0.79 | **0.83** | 0.80 | 0.44 | 0.28 | 0.24 | 0.16 | 0.13 | 0.09 |
| 11.01 | 0.43 | 0.48 | 0.49 | 0.49 | **0.51** | 0.49 | 0.26 | 0.17 | 0.15 | 0.10 | 0.08 | 0.05 |
| 12.01 | 0.48 | 0.56 | 0.56 | 0.56 | **0.60** | 0.57 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 12.02 | 0.86 | 0.98 | 0.96 | 0.96 | **1.02** | 0.99 | 0.53 | 0.34 | 0.29 | 0.19 | 0.15 | 0.11 |
| 12.03 | 1.68 | 1.85 | 1.83 | 1.85 | **1.95** | 1.85 | 1.04 | 0.66 | 0.58 | 0.38 | 0.30 | 0.22 |
| 12.04 | 2.17 | 2.40 | 2.33 | 2.38 | **2.53** | 2.39 | 1.36 | 0.86 | 0.75 | 0.49 | 0.39 | 0.28 |
| 13.01 | 0.45 | 0.51 | 0.51 | 0.51 | **0.54** | 0.52 | 0.29 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 14.01 | 0.80 | 0.90 | 0.88 | 0.89 | **0.94** | 0.91 | 0.49 | 0.31 | 0.27 | 0.18 | 0.14 | 0.10 |
| 14.02 | 1.31 | 1.49 | 1.45 | 1.47 | **1.55** | 1.50 | 0.81 | 0.51 | 0.45 | 0.29 | 0.23 | 0.17 |
| 14.03 | 1.74 | 1.98 | 1.93 | 1.95 | **2.07** | 1.99 | 1.07 | 0.68 | 0.60 | 0.39 | 0.31 | 0.22 |
| 15.01 | 0.88 | 0.95 | 0.91 | 0.92 | **0.98** | 0.93 | 0.52 | 0.33 | 0.29 | 0.19 | 0.15 | 0.11 |
| 15.02 | 1.16 | 1.26 | 1.20 | 1.22 | **1.31** | 1.24 | 0.71 | 0.46 | 0.40 | 0.26 | 0.21 | 0.15 |
| 15.03 | 1.83 | 1.99 | 1.94 | 1.97 | **2.09** | 1.97 | 1.15 | 0.73 | 0.64 | 0.42 | 0.33 | 0.24 |
| 16.01 | 0.52 | 0.60 | 0.59 | 0.59 | **0.63** | 0.60 | 0.33 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 17.01 | 0.46 | 0.52 | 0.51 | 0.51 | **0.55** | 0.53 | 0.29 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 17.02 | 0.84 | 0.94 | 0.93 | 0.94 | **0.98** | 0.94 | 0.53 | 0.34 | 0.29 | 0.19 | 0.15 | 0.11 |
| 17.03 | 1.41 | 1.58 | 1.57 | 1.59 | **1.68** | 1.59 | 0.89 | 0.57 | 0.50 | 0.32 | 0.26 | 0.18 |
| 17.04 | 3.34 | 3.80 | 3.89 | 3.88 | **4.08** | 3.87 | 2.16 | 1.37 | 1.20 | 0.78 | 0.62 | 0.44 |
| 17.05 | 4.79 | 5.43 | 5.54 | 5.52 | **5.81** | 5.50 | 3.07 | 1.95 | 1.70 | 1.11 | 0.88 | 0.63 |
| 17.06 | 5.53 | 6.25 | 6.25 | 6.26 | **6.53** | 6.31 | 3.57 | 2.27 | 1.98 | 1.29 | 1.02 | 0.73 |
| 17.07 | 6.00 | 6.73 | 6.62 | 6.61 | **6.94** | 6.76 | 3.91 | 2.49 | 2.17 | 1.42 | 1.12 | 0.80 |
| 18.01 | 0.51 | 0.57 | 0.58 | 0.58 | **0.61** | 0.59 | 0.32 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 18.02 | 0.86 | 0.96 | 0.98 | 0.97 | **1.03** | 0.99 | 0.53 | 0.34 | 0.29 | 0.19 | 0.15 | 0.11 |
| 19.01 | 0.31 | 0.34 | 0.39 | 0.38 | **0.40** | 0.37 | 0.21 | 0.13 | 0.12 | 0.08 | 0.06 | 0.04 |
| 20.01 | 0.40 | 0.45 | 0.45 | 0.45 | **0.48** | 0.46 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 21.01 | 0.57 | 0.65 | 0.64 | 0.64 | **0.68** | 0.66 | 0.35 | 0.22 | 0.19 | 0.13 | 0.10 | 0.07 |
| 22.01 | 0.32 | 0.36 | 0.36 | 0.36 | **0.38** | 0.37 | 0.20 | 0.12 | 0.11 | 0.07 | 0.06 | 0.04 |
| 23.01 | 0.42 | 0.47 | 0.47 | 0.47 | **0.50** | 0.48 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 23.02 | 1.31 | 1.47 | 1.49 | 1.47 | **1.54** | 1.46 | 0.81 | 0.52 | 0.45 | 0.29 | 0.23 | 0.17 |
| 23.03 | 1.65 | 1.82 | 1.84 | 1.83 | **1.93** | 1.81 | 1.04 | 0.66 | 0.58 | 0.38 | 0.30 | 0.21 |
| 24.01 | 0.37 | 0.41 | 0.41 | 0.41 | **0.44** | 0.42 | 0.22 | 0.14 | 0.12 | 0.08 | 0.06 | 0.05 |
| 25.01 | 1.11 | 1.27 | 1.24 | 1.25 | **1.32** | 1.28 | 0.68 | 0.43 | 0.38 | 0.25 | 0.20 | 0.14 |
| 25.02 | 1.66 | 1.90 | 1.87 | 1.88 | **1.99** | 1.92 | 1.03 | 0.65 | 0.57 | 0.37 | 0.30 | 0.21 |
| 25.03 | 1.83 | 2.09 | 2.03 | 2.07 | **2.19** | 2.11 | 1.14 | 0.72 | 0.63 | 0.41 | 0.33 | 0.23 |
| 25.04 | 3.08 | 3.42 | 3.48 | 3.51 | **3.68** | 3.50 | 1.97 | 1.25 | 1.09 | 0.71 | 0.57 | 0.41 |
| 26.01 | 0.34 | 0.38 | 0.39 | 0.39 | **0.41** | 0.40 | 0.21 | 0.14 | 0.12 | 0.08 | 0.06 | 0.04 |
| 27.01 | 0.34 | 0.39 | 0.44 | 0.45 | **0.48** | 0.44 | 0.27 | 0.17 | 0.15 | 0.10 | 0.08 | 0.05 |
| 28.01 | 0.18 | 0.33 | 0.31 | 0.39 | **0.43** | 0.41 | 0.29 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 28.02 | 0.64 | 0.80 | 0.86 | 0.95 | **1.02** | 0.92 | 0.62 | 0.39 | 0.34 | 0.22 | 0.17 | 0.12 |
| 28.03 | 0.94 | 1.12 | 1.23 | 1.32 | **1.43** | 1.29 | 0.85 | 0.54 | 0.47 | 0.31 | 0.24 | 0.17 |
| 28.04 | 2.16 | 2.43 | 2.60 | 2.69 | **2.87** | 2.66 | 1.62 | 1.03 | 0.90 | 0.59 | 0.46 | 0.33 |

| Subcatchment ID | Peak Discharge ($m^3/s$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 min | 20 min | 30 min | 60 min | 90 min | 120 min | 180 min | 360 min | 720 min | 1440 min | 2880 min | 4320 min |
| 29.01 | 0.34 | 0.38 | 0.38 | 0.38 | **0.40** | 0.39 | 0.21 | 0.13 | 0.12 | 0.08 | 0.06 | 0.04 |
| 29.02 | 1.02 | 1.10 | 1.10 | 1.11 | **1.17** | 1.10 | 0.62 | 0.40 | 0.35 | 0.23 | 0.18 | 0.13 |
| 30.01 | 0.60 | 0.69 | 0.68 | 0.68 | **0.72** | 0.70 | 0.37 | 0.24 | 0.21 | 0.13 | 0.11 | 0.08 |
| 30.02 | 1.16 | 1.33 | 1.32 | 1.32 | **1.40** | 1.35 | 0.72 | 0.46 | 0.40 | 0.26 | 0.21 | 0.15 |
| 30.03 | 1.64 | 1.88 | 1.85 | 1.86 | **1.97** | 1.91 | 1.02 | 0.65 | 0.57 | 0.37 | 0.29 | 0.21 |
| 30.04 | 2.11 | 2.40 | 2.36 | 2.37 | **2.52** | 2.43 | 1.31 | 0.83 | 0.73 | 0.48 | 0.38 | 0.27 |
| 31.01 | 0.40 | 0.45 | 0.51 | 0.51 | **0.53** | 0.50 | 0.28 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 31.02 | 0.88 | 0.99 | 1.07 | 1.07 | **1.13** | 1.06 | 0.60 | 0.38 | 0.33 | 0.22 | 0.17 | 0.12 |
| 32.01 | 0.31 | 0.46 | 0.47 | 0.50 | **0.53** | 0.47 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 32.02 | 0.44 | 0.67 | 0.67 | 0.74 | **0.78** | 0.71 | 0.47 | 0.30 | 0.26 | 0.17 | 0.13 | 0.09 |
| 33.01 | 0.51 | 0.58 | 0.57 | 0.57 | **0.61** | 0.59 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 33.02 | 1.26 | 1.38 | 1.39 | 1.39 | **1.47** | 1.39 | 0.78 | 0.49 | 0.43 | 0.28 | 0.22 | 0.16 |
| 34.01 | 0.39 | 0.45 | 0.48 | 0.47 | **0.49** | 0.47 | 0.26 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 34.02 | 0.80 | 0.90 | 1.00 | 0.98 | **1.03** | 0.97 | 0.55 | 0.35 | 0.30 | 0.20 | 0.16 | 0.11 |
| 34.03 | 0.96 | 1.08 | 1.19 | 1.18 | **1.24** | 1.17 | 0.66 | 0.42 | 0.36 | 0.24 | 0.19 | 0.13 |
| 35.01 | 0.37 | 0.42 | 0.39 | 0.40 | **0.42** | 0.41 | 0.21 | 0.14 | 0.12 | 0.08 | 0.06 | 0.04 |
| 35.02 | 1.13 | 1.20 | 1.15 | 1.14 | **1.20** | 1.15 | 0.63 | 0.40 | 0.35 | 0.23 | 0.18 | 0.13 |
| 35.03 | 1.78 | **1.92** | 1.80 | 1.80 | 1.89 | 1.81 | 0.99 | 0.63 | 0.55 | 0.36 | 0.29 | 0.21 |
| 35.04 | 1.92 | **2.08** | 1.95 | 1.94 | 2.04 | 1.95 | 1.07 | 0.68 | 0.59 | 0.39 | 0.31 | 0.22 |
| 36.01 | 0.78 | 0.88 | 0.87 | 0.88 | **0.94** | 0.90 | 0.50 | 0.31 | 0.27 | 0.18 | 0.14 | 0.10 |
| 36.02 | 1.38 | 1.58 | 1.58 | 1.58 | **1.68** | 1.62 | 0.88 | 0.56 | 0.49 | 0.32 | 0.25 | 0.18 |
| 37.01 | 0.30 | 0.34 | 0.34 | 0.34 | **0.36** | 0.35 | 0.19 | 0.12 | 0.10 | 0.07 | 0.05 | 0.04 |
| 37.02 | 0.84 | 0.93 | 0.96 | 0.96 | **1.00** | 0.94 | 0.54 | 0.34 | 0.30 | 0.20 | 0.15 | 0.11 |
| 38.01 | 0.35 | 0.39 | 0.40 | 0.40 | **0.42** | 0.40 | 0.22 | 0.14 | 0.12 | 0.08 | 0.06 | 0.04 |
| 39.01 | 0.20 | 0.23 | 0.23 | 0.23 | **0.24** | 0.23 | 0.13 | 0.08 | 0.07 | 0.05 | 0.04 | 0.03 |
| 40.01 | 0.51 | **0.55** | 0.51 | 0.51 | 0.54 | 0.53 | 0.28 | 0.18 | 0.15 | 0.10 | 0.08 | 0.06 |
| 41.01 | 0.31 | 0.35 | 0.33 | 0.34 | **0.36** | 0.35 | 0.18 | 0.11 | 0.10 | 0.06 | 0.05 | 0.04 |
| 42.01 | 1.11 | **1.22** | 1.13 | 1.15 | 1.22 | 1.18 | 0.62 | 0.39 | 0.34 | 0.23 | 0.18 | 0.13 |
| 43.01 | 0.23 | **0.26** | 0.24 | 0.24 | 0.26 | 0.25 | 0.13 | 0.08 | 0.07 | 0.05 | 0.04 | 0.03 |
| 44.01 | 0.73 | 0.83 | 0.81 | 0.81 | **0.86** | 0.83 | 0.45 | 0.29 | 0.25 | 0.16 | 0.13 | 0.09 |
| 44.02 | 1.24 | 1.41 | 1.37 | 1.39 | **1.47** | 1.42 | 0.76 | 0.48 | 0.42 | 0.28 | 0.22 | 0.16 |
| 44.03 | 1.69 | 1.94 | 1.91 | 1.92 | **2.04** | 1.97 | 1.06 | 0.67 | 0.59 | 0.38 | 0.30 | 0.22 |
| 44.04 | 2.56 | 2.91 | 2.89 | 2.94 | **3.12** | 2.98 | 1.66 | 1.05 | 0.92 | 0.60 | 0.47 | 0.34 |
| 44.05 | 4.69 | 5.09 | 5.12 | 5.20 | **5.48** | 5.14 | 2.99 | 1.90 | 1.66 | 1.08 | 0.86 | 0.61 |
| 44.06 | 5.10 | 5.56 | 5.62 | 5.72 | **6.03** | 5.66 | 3.29 | 2.09 | 1.83 | 1.19 | 0.95 | 0.68 |
| 44.07 | 6.12 | 6.74 | 6.77 | 6.93 | **7.32** | 6.90 | 4.04 | 2.57 | 2.24 | 1.47 | 1.16 | 0.83 |
| 44.08 | 6.95 | 8.15 | 8.29 | 8.37 | **8.64** | 8.29 | 5.19 | 3.23 | 2.87 | 1.88 | 1.49 | 1.07 |
| 44.09 | 7.14 | 8.93 | 8.82 | 9.00 | **9.23** | 9.16 | 5.79 | 3.65 | 3.24 | 2.13 | 1.69 | 1.20 |
| 44.10 | 7.93 | 11.89 | 10.73 | 11.38 | 10.93 | **12.32** | 8.13 | 5.32 | 4.76 | 3.20 | 2.56 | 1.83 |
| 44.11 | 2.62 | 9.72 | 10.86 | 13.67 | 14.36 | **14.98** | 10.98 | 8.40 | 7.46 | 5.14 | 4.27 | 3.23 |
| 44.12 | 1.29 | 5.46 | 9.21 | 12.66 | 13.44 | **14.17** | 10.15 | 8.80 | 7.82 | 5.39 | 4.47 | 3.37 |
| 44.13 | 0.54 | 0.64 | 0.71 | 0.79 | 0.89 | 0.79 | 0.94 | 1.42 | 4.45 | 3.15 | **4.63** | 2.11 |
| 44.14 | 4.89 | 5.47 | 5.60 | 6.04 | **6.52** | 6.01 | 3.76 | 2.51 | 5.00 | 3.36 | 5.65 | 2.47 |
| 44.15 | 5.20 | 5.98 | 5.39 | 5.88 | 5.98 | 6.61 | 4.41 | 3.87 | 5.74 | 3.89 | **6.89** | 2.91 |
| 44.16 | 2.18 | 2.35 | 2.45 | 2.71 | 2.74 | 2.77 | 2.66 | 2.64 | 3.21 | 3.23 | **6.90** | 2.72 |
| 44.17 | 6.39 | 7.43 | 7.27 | 7.89 | **8.37** | 8.21 | 6.17 | 4.92 | 4.72 | 3.84 | 8.13 | 3.15 |
| 44.18 | 5.83 | 7.28 | 7.23 | 7.79 | 8.19 | **8.23** | 6.34 | 5.15 | 4.92 | 4.00 | 8.21 | 3.19 |
| 44.19 | 5.96 | 7.79 | 8.01 | 8.65 | 8.84 | **8.91** | 6.85 | 5.71 | 5.45 | 4.35 | 8.47 | 3.29 |
| 44.20 | 6.10 | 8.11 | 8.50 | 9.20 | 9.32 | **9.37** | 7.27 | 6.04 | 5.76 | 4.55 | 8.62 | 3.34 |
| 45.01 | 0.51 | 0.59 | 0.63 | 0.65 | **0.68** | 0.64 | 0.37 | 0.24 | 0.21 | 0.13 | 0.11 | 0.08 |
| 46.01 | 0.43 | 0.49 | 0.50 | 0.50 | **0.52** | 0.51 | 0.27 | 0.17 | 0.15 | 0.10 | 0.08 | 0.06 |
| 46.02 | 0.78 | 0.90 | 0.90 | 0.90 | **0.96** | 0.92 | 0.50 | 0.32 | 0.28 | 0.18 | 0.14 | 0.10 |
| 46.03 | 1.23 | 1.36 | 1.35 | 1.35 | **1.43** | 1.37 | 0.76 | 0.48 | 0.42 | 0.28 | 0.22 | 0.16 |
| 46.04 | 1.39 | 1.54 | 1.49 | 1.54 | **1.63** | 1.56 | 0.86 | 0.55 | 0.48 | 0.31 | 0.25 | 0.18 |
| 47.01 | 0.74 | 0.82 | 0.79 | 0.80 | **0.85** | 0.82 | 0.45 | 0.29 | 0.25 | 0.16 | 0.13 | 0.09 |
| 48.01 | 0.54 | 0.61 | 0.60 | 0.60 | **0.64** | 0.62 | 0.33 | 0.21 | 0.19 | 0.12 | 0.10 | 0.07 |
| 48.02 | 0.90 | 0.99 | 1.00 | 1.00 | **1.05** | 0.99 | 0.56 | 0.36 | 0.31 | 0.20 | 0.16 | 0.12 |
| 49.01 | 0.61 | 0.68 | 0.68 | 0.68 | **0.71** | 0.69 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 50.01 | 0.22 | 0.24 | 0.27 | 0.26 | **0.27** | 0.26 | 0.14 | 0.09 | 0.08 | 0.05 | 0.04 | 0.03 |
| 51.01 | 0.21 | 0.24 | 0.24 | 0.24 | **0.25** | 0.24 | 0.13 | 0.08 | 0.07 | 0.05 | 0.04 | 0.03 |
| 52.01 | 0.22 | 0.24 | 0.24 | 0.24 | **0.25** | 0.24 | 0.13 | 0.08 | 0.07 | 0.05 | 0.04 | 0.03 |
| 53.01 | 0.51 | 0.59 | 0.58 | 0.58 | **0.62** | 0.60 | 0.32 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 53.02 | 1.13 | 1.30 | 1.29 | 1.30 | **1.37** | 1.32 | 0.71 | 0.45 | 0.39 | 0.26 | 0.20 | 0.15 |
| 53.03 | 1.41 | 1.58 | 1.55 | 1.58 | **1.67** | 1.60 | 0.87 | 0.55 | 0.48 | 0.32 | 0.25 | 0.18 |
| 54.01 | 0.42 | 0.47 | 0.47 | 0.47 | **0.50** | 0.48 | 0.26 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 54.02 | 0.87 | 0.98 | 0.99 | 0.99 | **1.04** | 1.00 | 0.54 | 0.34 | 0.30 | 0.19 | 0.15 | 0.11 |
| 55.01 | 0.64 | 0.74 | 0.73 | 0.74 | **0.78** | 0.75 | 0.40 | 0.26 | 0.22 | 0.15 | 0.12 | 0.08 |
| 56.01 | 0.31 | 0.35 | 0.37 | 0.36 | **0.38** | 0.36 | 0.20 | 0.13 | 0.11 | 0.07 | 0.06 | 0.04 |
| 57.01 | 0.23 | 0.25 | 0.29 | 0.28 | **0.30** | 0.28 | 0.16 | 0.10 | 0.09 | 0.06 | 0.04 | 0.03 |
| 58.01 | 0.45 | 0.49 | 0.47 | 0.48 | **0.51** | 0.49 | 0.27 | 0.17 | 0.15 | 0.10 | 0.08 | 0.06 |
| 59.01 | 0.60 | 0.65 | 0.65 | 0.67 | **0.71** | 0.67 | 0.39 | 0.25 | 0.22 | 0.14 | 0.11 | 0.08 |
| 59.02 | 1.18 | 1.34 | 1.33 | 1.34 | **1.43** | 1.36 | 0.76 | 0.49 | 0.42 | 0.28 | 0.22 | 0.16 |
| 59.03 | 1.70 | 1.94 | 1.95 | 1.95 | **2.07** | 1.98 | 1.10 | 0.70 | 0.61 | 0.40 | 0.32 | 0.23 |
| 59.04 | 2.18 | 2.46 | 2.46 | 2.48 | **2.63** | 2.50 | 1.41 | 0.90 | 0.78 | 0.51 | 0.40 | 0.29 |
| 59.05 | 4.59 | 5.24 | 5.46 | 5.62 | **5.93** | 5.57 | 3.22 | 2.05 | 1.78 | 1.16 | 0.92 | 0.66 |
| 59.06 | 5.40 | 6.17 | 6.22 | 6.45 | **6.68** | 6.53 | 3.86 | 2.45 | 2.14 | 1.40 | 1.10 | 0.79 |
| 59.07 | 9.04 | 10.50 | 10.85 | 11.11 | **11.65** | 11.25 | 6.69 | 4.25 | 3.71 | 2.42 | 1.91 | 1.36 |
| 59.08 | 10.14 | 11.69 | 12.07 | 12.38 | **12.99** | 12.51 | 7.64 | 4.87 | 4.24 | 2.77 | 2.19 | 1.56 |
| 59.09 | 10.78 | 13.71 | 13.81 | 13.96 | **14.61** | 14.30 | 9.65 | 6.22 | 5.43 | 3.54 | 2.80 | 2.00 |
| 59.10 | 10.25 | 14.93 | 14.69 | 15.28 | 15.41 | **16.21** | 11.10 | 7.23 | 6.31 | 4.12 | 3.26 | 2.33 |
| 60.01 | 0.36 | 0.45 | 0.49 | 0.51 | **0.54** | 0.49 | 0.30 | 0.19 | 0.17 | 0.11 | 0.09 | 0.06 |
| 60.02 | 1.58 | 1.79 | 2.03 | 2.04 | **2.14** | 1.99 | 1.16 | 0.74 | 0.64 | 0.42 | 0.33 | 0.24 |
| 61.01 | 0.79 | 0.89 | 1.02 | 1.03 | **1.07** | 1.00 | 0.58 | 0.37 | 0.32 | 0.21 | 0.17 | 0.12 |
| 62.01 | 0.50 | 0.56 | 0.57 | 0.57 | **0.60** | 0.58 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 63.01 | 0.28 | 0.33 | 0.37 | 0.37 | **0.39** | 0.36 | 0.21 | 0.14 | 0.12 | 0.08 | 0.06 | 0.04 |
| 64.01 | 0.41 | 0.44 | 0.42 | 0.42 | **0.45** | 0.43 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 64.02 | 1.35 | 1.52 | 1.55 | 1.58 | **1.66** | 1.56 | 0.90 | 0.57 | 0.50 | 0.33 | 0.26 | 0.19 |
| 64.03 | 2.59 | 2.89 | 2.92 | 2.97 | **3.14** | 2.95 | 1.70 | 1.08 | 0.94 | 0.61 | 0.49 | 0.35 |
| 64.04 | 3.52 | 4.04 | 4.21 | 4.32 | **4.58** | 4.30 | 2.55 | 1.62 | 1.41 | 0.92 | 0.73 | 0.52 |
| 65.01 | 0.31 | 0.34 | 0.33 | 0.34 | **0.36** | 0.34 | 0.19 | 0.12 | 0.11 | 0.07 | 0.06 | 0.04 |
| 66.01 | 0.24 | 0.27 | 0.30 | 0.29 | **0.31** | 0.29 | 0.16 | 0.10 | 0.09 | 0.06 | 0.05 | 0.03 |
| 66.02 | 0.52 | 0.66 | 0.72 | 0.76 | **0.81** | 0.74 | 0.46 | 0.29 | 0.25 | 0.16 | 0.13 | 0.09 |
| 67.01 | 0.42 | 0.48 | 0.47 | 0.48 | **0.50** | 0.48 | 0.26 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |

| Subcatchment ID | Peak Discharge ($m^3/s$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 min | 20 min | 30 min | 60 min | 90 min | 120 min | 180 min | 360 min | 720 min | 1440 min | 2880 min | 4320 min |
| 68.01 | 0.58 | 0.65 | 0.65 | 0.65 | **0.69** | 0.67 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 68.02 | 1.17 | 1.31 | 1.32 | 1.31 | **1.37** | 1.30 | 0.72 | 0.46 | 0.40 | 0.26 | 0.21 | 0.15 |
| 68.03 | 2.11 | 2.31 | 2.33 | 2.30 | **2.41** | 2.28 | 1.29 | 0.82 | 0.72 | 0.47 | 0.37 | 0.27 |
| 69.01 | 0.50 | 0.57 | 0.54 | 0.55 | **0.58** | 0.56 | 0.29 | 0.19 | 0.16 | 0.11 | 0.08 | 0.06 |
| 70.01 | 0.47 | 0.52 | 0.52 | 0.52 | **0.54** | 0.52 | 0.28 | 0.18 | 0.15 | 0.10 | 0.08 | 0.06 |
| 70.02 | 0.78 | 0.85 | 0.87 | 0.86 | **0.91** | 0.86 | 0.47 | 0.30 | 0.26 | 0.17 | 0.14 | 0.10 |
| 71.01 | 0.57 | 0.65 | 0.65 | 0.65 | **0.69** | 0.67 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 71.02 | 1.17 | 1.31 | 1.33 | 1.33 | **1.39** | 1.32 | 0.74 | 0.47 | 0.41 | 0.27 | 0.21 | 0.15 |
| 72.01 | 0.62 | 0.71 | 0.69 | 0.70 | **0.74** | 0.71 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 73.01 | 0.51 | 0.57 | 0.57 | 0.58 | **0.61** | 0.59 | 0.33 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 74.01 | 0.58 | 0.66 | 0.65 | 0.65 | **0.69** | 0.67 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 75.01 | 0.35 | 0.38 | 0.44 | 0.44 | **0.46** | 0.43 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 75.02 | 1.41 | 1.60 | 1.83 | 1.84 | **1.93** | 1.79 | 1.05 | 0.66 | 0.58 | 0.38 | 0.30 | 0.21 |
| 75.03 | 2.09 | 2.37 | 2.62 | 2.67 | **2.80** | 2.61 | 1.53 | 0.97 | 0.84 | 0.55 | 0.43 | 0.31 |
| 75.04 | 3.77 | 4.20 | 4.44 | 4.50 | **4.70** | 4.45 | 2.57 | 1.63 | 1.43 | 0.93 | 0.74 | 0.53 |
| 76.01 | 0.44 | 0.55 | 0.60 | 0.62 | **0.65** | 0.59 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 77.01 | 0.68 | 0.78 | 0.77 | 0.77 | **0.82** | 0.79 | 0.43 | 0.27 | 0.24 | 0.15 | 0.12 | 0.09 |
| 77.02 | 1.02 | 1.17 | 1.16 | 1.16 | **1.23** | 1.19 | 0.64 | 0.40 | 0.35 | 0.23 | 0.18 | 0.13 |
| 77.03 | 1.51 | 1.68 | 1.70 | 1.69 | **1.78** | 1.70 | 0.95 | 0.60 | 0.52 | 0.34 | 0.27 | 0.19 |
| 78.01 | 0.64 | 0.73 | 0.72 | 0.73 | **0.77** | 0.74 | 0.40 | 0.26 | 0.22 | 0.15 | 0.12 | 0.08 |
| 79.01 | 0.79 | 0.82 | 0.80 | 0.81 | **0.87** | 0.81 | 0.49 | 0.32 | 0.28 | 0.18 | 0.14 | 0.10 |
| 79.02 | 1.47 | 1.57 | 1.48 | 1.49 | **1.60** | 1.51 | 0.88 | 0.59 | 0.52 | 0.34 | 0.27 | 0.19 |
| 79.03 | 3.16 | 3.45 | 3.37 | 3.38 | **3.59** | 3.38 | 1.95 | 1.27 | 1.11 | 0.73 | 0.58 | 0.41 |
| 80.01 | 0.67 | 0.76 | 0.76 | 0.76 | **0.80** | 0.78 | 0.41 | 0.26 | 0.23 | 0.15 | 0.12 | 0.09 |
| 80.02 | 1.43 | 1.64 | 1.62 | 1.63 | **1.72** | 1.66 | 0.89 | 0.57 | 0.49 | 0.32 | 0.26 | 0.18 |
| 81.01 | 0.49 | 0.56 | 0.61 | 0.61 | **0.64** | 0.60 | 0.34 | 0.22 | 0.19 | 0.12 | 0.10 | 0.07 |
| 81.02 | 1.51 | 1.69 | 1.78 | 1.78 | **1.87** | 1.76 | 1.00 | 0.64 | 0.55 | 0.36 | 0.29 | 0.20 |
| 82.01 | 0.59 | 0.68 | 0.68 | 0.68 | **0.72** | 0.69 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 83.01 | 0.38 | 0.43 | 0.43 | 0.43 | **0.46** | 0.44 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 84.01 | 0.56 | 0.63 | 0.66 | 0.65 | **0.69** | 0.66 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 84.02 | 1.44 | 1.60 | 1.64 | 1.64 | **1.72** | 1.63 | 0.91 | 0.58 | 0.50 | 0.33 | 0.26 | 0.19 |
| 84.03 | 1.91 | 2.14 | 2.20 | 2.19 | **2.30** | 2.17 | 1.21 | 0.77 | 0.67 | 0.44 | 0.35 | 0.25 |
| 84.04 | 2.27 | 2.49 | 2.53 | 2.54 | **2.67** | 2.52 | 1.44 | 0.92 | 0.80 | 0.52 | 0.41 | 0.30 |
| 84.05 | 2.78 | 3.04 | 3.02 | 3.05 | **3.20** | 3.06 | 1.80 | 1.15 | 1.00 | 0.65 | 0.52 | 0.37 |
| 84.06 | 3.12 | 3.41 | 3.31 | 3.37 | **3.50** | 3.39 | 2.06 | 1.31 | 1.14 | 0.75 | 0.59 | 0.42 |
| 85.01 | 0.36 | 0.40 | 0.40 | 0.40 | **0.42** | 0.40 | 0.21 | 0.14 | 0.12 | 0.08 | 0.06 | 0.04 |
| 86.01 | 0.55 | 0.61 | 0.60 | 0.60 | **0.64** | 0.62 | 0.34 | 0.21 | 0.19 | 0.12 | 0.10 | 0.07 |
| 86.02 | 1.08 | 1.21 | 1.19 | 1.22 | **1.33** | 1.24 | 0.77 | 0.54 | 0.47 | 0.31 | 0.25 | 0.17 |
| 87.01 | 0.79 | 0.89 | 0.87 | 0.88 | **0.93** | 0.90 | 0.48 | 0.31 | 0.27 | 0.18 | 0.14 | 0.10 |
| 87.02 | 1.40 | 1.56 | 1.53 | 1.55 | **1.63** | 1.55 | 0.88 | 0.56 | 0.49 | 0.32 | 0.25 | 0.18 |
| 88.01 | 0.35 | 0.40 | 0.40 | 0.40 | **0.43** | 0.41 | 0.23 | 0.14 | 0.13 | 0.08 | 0.06 | 0.05 |
| 88.02 | 0.60 | 0.67 | 0.68 | 0.71 | **0.76** | 0.71 | 0.43 | 0.28 | 0.24 | 0.16 | 0.12 | 0.09 |
| 89.01 | 0.41 | 0.45 | 0.43 | 0.43 | **0.46** | 0.44 | 0.24 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 89.02 | 0.45 | 0.49 | 0.49 | 0.50 | **0.53** | 0.50 | 0.29 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 90.01 | 0.17 | 0.18 | 0.18 | 0.18 | **0.19** | 0.18 | 0.10 | 0.07 | 0.06 | 0.04 | 0.03 | 0.02 |
| 91.01 | 0.45 | 0.52 | 0.49 | 0.50 | **0.52** | 0.51 | 0.26 | 0.17 | 0.15 | 0.10 | 0.08 | 0.05 |
| 91.02 | 1.02 | 1.11 | 1.08 | 1.06 | **1.12** | 1.07 | 0.58 | 0.37 | 0.32 | 0.21 | 0.17 | 0.12 |
| 92.01 | 0.44 | 0.50 | 0.54 | 0.54 | **0.57** | 0.54 | 0.31 | 0.19 | 0.17 | 0.11 | 0.09 | 0.06 |
| 92.02 | 1.36 | 1.50 | 1.56 | 1.61 | **1.71** | 1.60 | 0.95 | 0.60 | 0.52 | 0.34 | 0.27 | 0.19 |
| 93.01 | 0.43 | 0.49 | 0.53 | 0.55 | **0.57** | 0.54 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 94.01 | 0.54 | 0.62 | 0.59 | 0.60 | **0.63** | 0.61 | 0.32 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 94.02 | 1.40 | 1.52 | 1.48 | 1.47 | **1.54** | 1.47 | 0.81 | 0.51 | 0.45 | 0.29 | 0.23 | 0.17 |
| 95.01 | 0.32 | 0.37 | 0.34 | 0.35 | **0.37** | 0.36 | 0.19 | 0.12 | 0.10 | 0.07 | 0.05 | 0.04 |
| 95.02 | 0.80 | 0.90 | 0.86 | 0.87 | **0.92** | 0.89 | 0.47 | 0.30 | 0.26 | 0.17 | 0.13 | 0.10 |
| 96.01 | 0.36 | 0.41 | 0.39 | 0.40 | **0.42** | 0.40 | 0.21 | 0.14 | 0.12 | 0.08 | 0.06 | 0.04 |
| 97.01 | 0.25 | **0.28** | 0.26 | 0.26 | 0.28 | 0.27 | 0.14 | 0.09 | 0.08 | 0.05 | 0.04 | 0.03 |
| 97.02 | 1.59 | 1.75 | 1.66 | 1.68 | **1.80** | 1.72 | 0.97 | 0.62 | 0.54 | 0.35 | 0.28 | 0.20 |
| 98.01 | 0.43 | 0.48 | 0.47 | 0.48 | **0.51** | 0.49 | 0.27 | 0.17 | 0.15 | 0.10 | 0.08 | 0.06 |
| 99.01 | 0.41 | 0.46 | 0.46 | 0.46 | **0.48** | 0.47 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 99.02 | 1.18 | 1.33 | 1.35 | 1.32 | **1.39** | 1.32 | 0.73 | 0.46 | 0.40 | 0.26 | 0.21 | 0.15 |
| 99.03 | 2.06 | 2.29 | 2.33 | 2.32 | **2.43** | 2.29 | 1.29 | 0.82 | 0.72 | 0.47 | 0.37 | 0.27 |
| 99.04 | 4.55 | 5.22 | 5.57 | 5.81 | **6.18** | 5.78 | 3.56 | 2.27 | 1.98 | 1.29 | 1.02 | 0.73 |
| 100.01 | 0.41 | 0.58 | 0.60 | 0.69 | **0.75** | 0.66 | 0.47 | 0.30 | 0.26 | 0.17 | 0.13 | 0.09 |
| 100.02 | 0.70 | 0.98 | 1.01 | 1.19 | **1.33** | 1.19 | 0.86 | 0.56 | 0.48 | 0.31 | 0.25 | 0.17 |
| 101.01 | 0.84 | 0.95 | 1.01 | 1.00 | **1.05** | 1.00 | 0.56 | 0.36 | 0.31 | 0.20 | 0.16 | 0.11 |
| 101.02 | 1.56 | 1.78 | 1.85 | 1.85 | **1.95** | 1.87 | 1.03 | 0.66 | 0.57 | 0.37 | 0.30 | 0.21 |
| 102.01 | 0.67 | 0.76 | 0.75 | 0.75 | **0.80** | 0.77 | 0.41 | 0.26 | 0.23 | 0.15 | 0.12 | 0.08 |
| 102.02 | 2.80 | 3.09 | 3.12 | 3.10 | **3.26** | 3.08 | 1.72 | 1.09 | 0.95 | 0.62 | 0.49 | 0.35 |
| 103.01 | 0.46 | 0.51 | 0.50 | 0.50 | **0.53** | 0.51 | 0.27 | 0.17 | 0.15 | 0.10 | 0.08 | 0.06 |
| 103.02 | 1.67 | 1.86 | 1.89 | 1.86 | **1.95** | 1.85 | 1.02 | 0.65 | 0.57 | 0.37 | 0.29 | 0.21 |
| 104.01 | 0.41 | 0.46 | 0.46 | 0.46 | **0.48** | 0.46 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 105.01 | 0.44 | 0.49 | 0.50 | 0.49 | **0.52** | 0.50 | 0.27 | 0.17 | 0.15 | 0.10 | 0.08 | 0.05 |
| 105.02 | 1.07 | 1.21 | 1.25 | 1.23 | **1.29** | 1.22 | 0.68 | 0.43 | 0.37 | 0.25 | 0.19 | 0.14 |
| 105.03 | 2.50 | 2.85 | 2.91 | 2.86 | **3.01** | 2.85 | 1.58 | 1.00 | 0.88 | 0.57 | 0.45 | 0.32 |
| 105.04 | 3.45 | 3.93 | 4.00 | 3.93 | **4.12** | 3.93 | 2.17 | 1.38 | 1.20 | 0.79 | 0.62 | 0.45 |
| 105.05 | 4.09 | 4.71 | 4.92 | 4.88 | **5.12** | 4.83 | 2.72 | 1.73 | 1.51 | 0.99 | 0.78 | 0.56 |
| 105.06 | 4.20 | 4.95 | 5.31 | 5.39 | **5.66** | 5.34 | 3.12 | 1.99 | 1.73 | 1.13 | 0.89 | 0.64 |
| 105.07 | 6.57 | 7.38 | 7.79 | 8.11 | **8.67** | 8.10 | 4.93 | 3.13 | 2.73 | 1.78 | 1.41 | 1.00 |
| 105.08 | 7.89 | 8.87 | 9.22 | 9.68 | **10.34** | 9.61 | 5.85 | 3.73 | 3.25 | 2.12 | 1.68 | 1.19 |
| 105.09 | 10.97 | 12.42 | 12.58 | 13.24 | **14.07** | 13.19 | 7.96 | 5.08 | 4.43 | 2.89 | 2.29 | 1.63 |
| 106.01 | 0.32 | 0.35 | 0.36 | 0.35 | **0.37** | 0.36 | 0.19 | 0.12 | 0.11 | 0.07 | 0.05 | 0.04 |
| 107.01 | 0.56 | 0.62 | 0.63 | 0.63 | **0.66** | 0.63 | 0.34 | 0.22 | 0.19 | 0.12 | 0.10 | 0.07 |
| 108.01 | 0.40 | 0.46 | 0.44 | 0.45 | **0.47** | 0.46 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 109.01 | 0.51 | 0.59 | 0.59 | 0.59 | **0.62** | 0.60 | 0.32 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 110.01 | 0.49 | 0.55 | 0.54 | 0.54 | **0.57** | 0.55 | 0.30 | 0.19 | 0.17 | 0.11 | 0.09 | 0.06 |
| 110.02 | 1.15 | 1.30 | 1.31 | 1.33 | **1.40** | 1.32 | 0.76 | 0.48 | 0.42 | 0.27 | 0.22 | 0.16 |
| 110.03 | 1.26 | 1.42 | 1.46 | 1.47 | **1.55** | 1.46 | 0.84 | 0.53 | 0.46 | 0.30 | 0.24 | 0.17 |
| 111.01 | 0.23 | 0.38 | 0.37 | 0.44 | **0.48** | 0.44 | 0.31 | 0.19 | 0.17 | 0.11 | 0.09 | 0.06 |
| 112.01 | 0.87 | 0.94 | 0.91 | 0.92 | **0.98** | 0.93 | 0.52 | 0.33 | 0.29 | 0.19 | 0.15 | 0.11 |
| 113.01 | 0.29 | 0.33 | 0.34 | 0.34 | **0.36** | 0.34 | 0.19 | 0.12 | 0.10 | 0.07 | 0.05 | 0.04 |
| 113.02 | 1.00 | 1.11 | 1.16 | 1.19 | **1.26** | 1.18 | 0.69 | 0.44 | 0.38 | 0.25 | 0.20 | 0.14 |
| 114.01 | 0.52 | 0.58 | 0.60 | 0.63 | **0.68** | 0.63 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 114.02 | 0.86 | 0.95 | 0.98 | 1.01 | **1.08** | 1.00 | 0.60 | 0.38 | 0.33 | 0.22 | 0.17 | 0.12 |

| Subcatchment ID | Peak Discharge ($m^3/s$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 min | 20 min | 30 min | 60 min | 90 min | 120 min | 180 min | 360 min | 720 min | 1440 min | 2880 min | 4320 min |
| 114.03 | 1.81 | 1.99 | 2.02 | 2.05 | **2.18** | 2.03 | 1.20 | 0.77 | 0.67 | 0.44 | 0.35 | 0.25 |
| 115.01 | 0.47 | 0.53 | 0.52 | 0.52 | **0.56** | 0.54 | 0.29 | 0.19 | 0.16 | 0.11 | 0.08 | 0.06 |
| 115.02 | 0.79 | 0.88 | 0.88 | 0.89 | **0.94** | 0.88 | 0.50 | 0.32 | 0.28 | 0.18 | 0.14 | 0.10 |
| 116.01 | 0.47 | 0.53 | 0.51 | 0.52 | **0.55** | 0.53 | 0.29 | 0.19 | 0.16 | 0.11 | 0.08 | 0.06 |
| 116.02 | 0.79 | 0.88 | 0.87 | 0.88 | **0.93** | 0.88 | 0.50 | 0.32 | 0.28 | 0.18 | 0.14 | 0.10 |
| 117.01 | 0.27 | 0.31 | 0.31 | 0.31 | **0.33** | 0.31 | 0.17 | 0.11 | 0.09 | 0.06 | 0.05 | 0.03 |
| 118.01 | 0.42 | 0.48 | 0.51 | 0.54 | **0.59** | 0.54 | 0.34 | 0.22 | 0.19 | 0.12 | 0.10 | 0.07 |
| 119.01 | 0.99 | 1.06 | 1.02 | 1.03 | **1.10** | 1.04 | 0.59 | 0.38 | 0.33 | 0.21 | 0.17 | 0.12 |
| 119.02 | 2.41 | 2.66 | 2.58 | 2.62 | **2.79** | 2.66 | 1.50 | 0.95 | 0.83 | 0.54 | 0.43 | 0.31 |
| 120.01 | 0.40 | 0.46 | 0.46 | 0.46 | **0.49** | 0.47 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 121.01 | 0.51 | 0.58 | 0.57 | 0.58 | **0.61** | 0.59 | 0.33 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 122.01 | 0.58 | 0.66 | 0.72 | 0.77 | **0.82** | 0.76 | 0.47 | 0.30 | 0.26 | 0.17 | 0.13 | 0.10 |
| 122.02 | 1.14 | 1.29 | 1.35 | 1.40 | **1.49** | 1.39 | 0.82 | 0.52 | 0.46 | 0.30 | 0.24 | 0.17 |
| 122.03 | 1.62 | 1.80 | 1.87 | 1.92 | **2.04** | 1.89 | 1.13 | 0.72 | 0.63 | 0.41 | 0.33 | 0.23 |
| 123.01 | 0.46 | **0.49** | 0.46 | 0.46 | 0.49 | 0.47 | 0.26 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 123.02 | 1.27 | 1.41 | 1.39 | 1.39 | **1.46** | 1.38 | 0.78 | 0.50 | 0.43 | 0.28 | 0.22 | 0.16 |
| 123.03 | 7.56 | 8.45 | 8.92 | 9.63 | **10.60** | 9.73 | 6.52 | 4.26 | 3.71 | 2.41 | 1.90 | 1.35 |
| 123.04 | 7.74 | 8.64 | 9.02 | 9.75 | **10.69** | 9.91 | 6.59 | 4.34 | 3.79 | 2.47 | 1.95 | 1.38 |
| 123.05 | 10.15 | 11.25 | 10.91 | 11.46 | **12.46** | 12.33 | 8.22 | 5.48 | 4.78 | 3.12 | 2.46 | 1.75 |
| 123.06 | 10.65 | 11.78 | 11.29 | 11.83 | **12.82** | 12.79 | 8.56 | 5.70 | 4.97 | 3.24 | 2.56 | 1.82 |
| 123.07 | 11.63 | 13.02 | 12.09 | 12.78 | 13.63 | **13.99** | 9.31 | 6.24 | 5.44 | 3.55 | 2.80 | 1.99 |
| 124.01 | 0.40 | 0.53 | 0.55 | 0.65 | **0.75** | 0.67 | 0.49 | 0.32 | 0.28 | 0.18 | 0.14 | 0.10 |
| 124.02 | 2.78 | 3.43 | 3.70 | 4.19 | **4.74** | 4.15 | 3.06 | 2.01 | 1.75 | 1.13 | 0.89 | 0.63 |
| 125.01 | 0.52 | 0.76 | 0.77 | 0.92 | **1.03** | 0.92 | 0.67 | 0.43 | 0.37 | 0.24 | 0.19 | 0.13 |
| 126.01 | 0.39 | 0.44 | 0.43 | 0.43 | **0.46** | 0.44 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 126.02 | 0.79 | 0.99 | 1.06 | 1.21 | **1.38** | 1.21 | 0.90 | 0.60 | 0.52 | 0.34 | 0.26 | 0.19 |
| 126.03 | 1.39 | 1.67 | 1.82 | 2.04 | **2.33** | 2.03 | 1.52 | 1.01 | 0.88 | 0.57 | 0.45 | 0.32 |
| 127.01 | 0.67 | 0.76 | 0.81 | 0.86 | **0.92** | 0.85 | 0.52 | 0.33 | 0.29 | 0.19 | 0.15 | 0.11 |
| 127.02 | 1.79 | 2.00 | 2.15 | 2.29 | **2.50** | 2.27 | 1.49 | 0.96 | 0.84 | 0.55 | 0.43 | 0.31 |
| 128.01 | 0.48 | 0.59 | 0.64 | 0.73 | **0.82** | 0.72 | 0.52 | 0.34 | 0.30 | 0.19 | 0.15 | 0.11 |
| 129.01 | 0.42 | 0.49 | 0.54 | 0.55 | **0.58** | 0.54 | 0.32 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 130.01 | 0.67 | 0.76 | 0.74 | 0.75 | **0.79** | 0.77 | 0.41 | 0.26 | 0.23 | 0.15 | 0.12 | 0.08 |
| 131.01 | 0.27 | 0.30 | 0.28 | 0.29 | **0.30** | 0.30 | 0.15 | 0.10 | 0.09 | 0.06 | 0.04 | 0.03 |
| 132.01 | 0.36 | 0.42 | 0.42 | 0.42 | **0.45** | 0.43 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 133.01 | 0.27 | 0.31 | 0.30 | 0.30 | **0.32** | 0.31 | 0.16 | 0.10 | 0.09 | 0.06 | 0.05 | 0.03 |
| 134.01 | 0.24 | 0.26 | 0.26 | 0.27 | **0.28** | 0.27 | 0.15 | 0.10 | 0.08 | 0.06 | 0.04 | 0.03 |
| 134.02 | 0.80 | 0.94 | 0.97 | 1.02 | **1.08** | 1.01 | 0.60 | 0.38 | 0.33 | 0.22 | 0.17 | 0.12 |
| 134.03 | 1.52 | 1.79 | 1.95 | 2.00 | **2.12** | 1.96 | 1.23 | 0.78 | 0.68 | 0.44 | 0.35 | 0.25 |
| 134.04 | 2.00 | 2.54 | 2.65 | 2.75 | **2.90** | 2.72 | 1.76 | 1.12 | 0.97 | 0.63 | 0.50 | 0.35 |
| 135.01 | 0.18 | 0.20 | 0.21 | 0.21 | **0.22** | 0.21 | 0.11 | 0.07 | 0.06 | 0.04 | 0.03 | 0.02 |
| 135.02 | 1.11 | 1.22 | 1.19 | 1.20 | **1.27** | 1.21 | 0.68 | 0.43 | 0.38 | 0.25 | 0.20 | 0.14 |
| 135.03 | 1.47 | 1.64 | 1.61 | 1.61 | **1.72** | 1.64 | 0.91 | 0.58 | 0.50 | 0.33 | 0.26 | 0.19 |
| 135.04 | 3.32 | 3.69 | 3.55 | 3.60 | **3.84** | 3.66 | 2.05 | 1.31 | 1.14 | 0.75 | 0.59 | 0.42 |
| 135.05 | 3.84 | 4.29 | 4.10 | 4.23 | **4.50** | 4.28 | 2.39 | 1.52 | 1.33 | 0.87 | 0.69 | 0.49 |
| 135.06 | 6.00 | 6.86 | 6.89 | 7.01 | **7.46** | 7.04 | 4.03 | 2.57 | 2.24 | 1.46 | 1.16 | 0.83 |
| 136.01 | 0.55 | 0.62 | 0.60 | 0.61 | **0.65** | 0.62 | 0.34 | 0.21 | 0.19 | 0.12 | 0.10 | 0.07 |
| 137.01 | 0.61 | 0.65 | 0.62 | 0.63 | **0.67** | 0.64 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 138.01 | 0.76 | 0.80 | 0.76 | 0.77 | **0.83** | 0.78 | 0.45 | 0.29 | 0.25 | 0.17 | 0.13 | 0.09 |
| 139.01 | 0.67 | 0.74 | 0.74 | 0.76 | **0.80** | 0.76 | 0.44 | 0.28 | 0.24 | 0.16 | 0.12 | 0.09 |
| 139.02 | 0.84 | 0.92 | 0.91 | 0.92 | **0.99** | 0.94 | 0.54 | 0.34 | 0.30 | 0.20 | 0.16 | 0.11 |
| 140.01 | 0.49 | 0.53 | 0.51 | 0.52 | **0.55** | 0.53 | 0.30 | 0.19 | 0.17 | 0.11 | 0.09 | 0.06 |
| 141.01 | 0.71 | 0.84 | 0.96 | 0.93 | **0.98** | 0.90 | 0.53 | 0.34 | 0.29 | 0.19 | 0.15 | 0.10 |
| 142.01 | 0.86 | 1.26 | 1.28 | 1.51 | **1.66** | 1.48 | 1.06 | 0.67 | 0.59 | 0.38 | 0.30 | 0.21 |
| 143.01 | 0.39 | 0.44 | 0.49 | 0.55 | **0.63** | 0.55 | 0.41 | 0.28 | 0.24 | 0.16 | 0.12 | 0.09 |
| 143.02 | 3.59 | 4.08 | 4.63 | 4.72 | **5.00** | 4.62 | 2.81 | 1.81 | 1.58 | 1.03 | 0.81 | 0.58 |
| 144.01 | 0.57 | 0.61 | 0.61 | 0.64 | **0.69** | 0.64 | 0.39 | 0.25 | 0.22 | 0.14 | 0.11 | 0.08 |
| 144.02 | 0.81 | 0.87 | 0.89 | 0.93 | **1.01** | 0.92 | 0.59 | 0.38 | 0.33 | 0.21 | 0.17 | 0.12 |
| 144.03 | 1.14 | 1.24 | 1.27 | 1.34 | **1.46** | 1.34 | 0.85 | 0.55 | 0.48 | 0.31 | 0.24 | 0.17 |
| 144.04 | 1.89 | 2.14 | 2.28 | 2.33 | **2.51** | 2.33 | 1.53 | 0.99 | 0.86 | 0.56 | 0.44 | 0.32 |
| 144.05 | 3.65 | 4.14 | 4.27 | 4.28 | **4.51** | 4.26 | 2.69 | 1.73 | 1.51 | 0.98 | 0.78 | 0.55 |
| 145.01 | 0.77 | **0.81** | 0.76 | 0.76 | 0.80 | 0.77 | 0.42 | 0.27 | 0.24 | 0.15 | 0.12 | 0.09 |
| 145.02 | 1.37 | 1.48 | 1.44 | 1.42 | **1.51** | 1.44 | 0.79 | 0.50 | 0.44 | 0.29 | 0.23 | 0.16 |
| 146.01 | 0.81 | 1.45 | 1.38 | 1.68 | **1.83** | 1.73 | 1.20 | 0.76 | 0.66 | 0.42 | 0.33 | 0.23 |
| 147.01 | 0.57 | 0.76 | 0.84 | 0.82 | **0.86** | 0.78 | 0.48 | 0.30 | 0.26 | 0.17 | 0.13 | 0.09 |
| 147.02 | 0.80 | 1.06 | 1.14 | 1.15 | **1.21** | 1.12 | 0.68 | 0.43 | 0.37 | 0.24 | 0.19 | 0.13 |
| 147.03 | 2.28 | 2.66 | 2.99 | 2.96 | **3.10** | 2.95 | 1.71 | 1.08 | 0.94 | 0.60 | 0.47 | 0.33 |
| 148.01 | 0.56 | 0.62 | 0.65 | 0.64 | **0.68** | 0.65 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 148.02 | 1.26 | 1.38 | 1.56 | 1.53 | **1.60** | 1.51 | 0.84 | 0.53 | 0.47 | 0.30 | 0.24 | 0.17 |
| 149.01 | 0.43 | 0.47 | 0.48 | 0.51 | **0.57** | 0.51 | 0.34 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 149.02 | 1.29 | 1.48 | 1.71 | 1.68 | **1.79** | 1.67 | 1.01 | 0.65 | 0.57 | 0.37 | 0.29 | 0.20 |
| 150.01 | 0.48 | 0.55 | 0.54 | 0.54 | **0.58** | 0.56 | 0.30 | 0.19 | 0.17 | 0.11 | 0.09 | 0.06 |
| 150.02 | 1.03 | 1.12 | 1.11 | 1.12 | **1.18** | 1.12 | 0.64 | 0.40 | 0.35 | 0.23 | 0.18 | 0.13 |
| 150.03 | 2.64 | 2.92 | 2.89 | 2.91 | **3.06** | 2.89 | 1.64 | 1.04 | 0.91 | 0.60 | 0.47 | 0.34 |
| 150.04 | 3.52 | 3.83 | 3.72 | 3.78 | **4.01** | 3.79 | 2.17 | 1.38 | 1.21 | 0.79 | 0.63 | 0.45 |
| 150.05 | 4.93 | 5.46 | 5.26 | 5.34 | **5.68** | 5.35 | 3.10 | 1.99 | 1.74 | 1.14 | 0.90 | 0.64 |
| 150.06 | 9.21 | 10.18 | 9.84 | 9.91 | **10.56** | 10.03 | 5.99 | 3.86 | 3.37 | 2.20 | 1.75 | 1.25 |
| 150.07 | 14.56 | 16.11 | 15.63 | 15.84 | **16.79** | 15.80 | 9.54 | 6.14 | 5.36 | 3.50 | 2.78 | 1.99 |
| 150.08 | 23.08 | 25.76 | 25.17 | 25.37 | **26.77** | 25.34 | 15.73 | 10.28 | 9.08 | 6.00 | 4.81 | 3.45 |
| 150.09 | 2.14 | 2.29 | 2.98 | 7.77 | 7.46 | 7.79 | 7.85 | 7.93 | **9.39** | 6.42 | 5.16 | 3.70 |
| 150.10 | 6.44 | 6.84 | 6.48 | 9.46 | 9.20 | 9.45 | 9.32 | 9.66 | **11.37** | 7.75 | 6.21 | 4.45 |
| 150.11 | 15.53 | **17.18** | 16.35 | 16.06 | 16.86 | 17.06 | 12.25 | 12.58 | 14.98 | 10.20 | 8.17 | 5.85 |
| 150.12 | 19.51 | **24.34** | 22.39 | 22.26 | 21.52 | 23.60 | 17.09 | 15.44 | 18.15 | 12.62 | 10.11 | 7.24 |
| 150.13 | 19.97 | **27.09** | 25.77 | 26.15 | 24.24 | 26.52 | 20.08 | 17.06 | 20.04 | 14.01 | 11.21 | 8.03 |
| 150.14 | 29.09 | 39.54 | 40.73 | 43.71 | 41.33 | **44.21** | 32.66 | 23.85 | 28.01 | 19.40 | 15.47 | 11.05 |
| 150.15 | 29.65 | 40.34 | 41.64 | 44.75 | 42.26 | **45.39** | 33.49 | 24.44 | 28.46 | 19.75 | 15.75 | 11.24 |
| 150.16 | 31.52 | 43.30 | 44.48 | 48.09 | 46.48 | **49.29** | 36.19 | 26.35 | 29.99 | 20.83 | 16.60 | 11.84 |
| 150.17 | 32.72 | 44.74 | 46.05 | 49.91 | 48.86 | **51.36** | 37.65 | 27.49 | 30.82 | 21.49 | 17.13 | 12.20 |
| 151.01 | 0.67 | 0.75 | 0.72 | 0.72 | **0.77** | 0.74 | 0.40 | 0.26 | 0.22 | 0.15 | 0.12 | 0.08 |
| 151.02 | 1.07 | 1.18 | 1.15 | 1.16 | **1.23** | 1.17 | 0.66 | 0.42 | 0.36 | 0.24 | 0.19 | 0.14 |
| 152.01 | 0.63 | 0.68 | 0.65 | 0.66 | **0.70** | 0.66 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 153.01 | 0.52 | 0.55 | 0.52 | 0.52 | **0.56** | 0.53 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 153.02 | 1.25 | 1.37 | 1.29 | 1.30 | **1.40** | 1.32 | 0.76 | 0.50 | 0.43 | 0.28 | 0.22 | 0.16 |
| 154.01 | 0.94 | 1.00 | 0.99 | 1.02 | **1.09** | 1.02 | 0.61 | 0.39 | 0.34 | 0.22 | 0.18 | 0.13 |

| Subcatchment ID | Peak Discharge ($m^3/s$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 min | 20 min | 30 min | 60 min | 90 min | 120 min | 180 min | 360 min | 720 min | 1440 min | 2880 min | 4320 min |
| 154.02 | 3.44 | 3.63 | 3.52 | 3.57 | **3.83** | 3.63 | 2.14 | 1.38 | 1.21 | 0.79 | 0.62 | 0.45 |
| 155.01 | 0.32 | 0.35 | 0.40 | 0.40 | **0.42** | 0.39 | 0.23 | 0.14 | 0.12 | 0.08 | 0.06 | 0.05 |
| 155.02 | 1.00 | 1.09 | 1.13 | 1.15 | **1.21** | 1.14 | 0.65 | 0.41 | 0.36 | 0.24 | 0.19 | 0.13 |
| 156.01 | 0.39 | 0.42 | 0.40 | 0.41 | **0.43** | 0.41 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 157.01 | 0.48 | 0.49 | 0.47 | 0.48 | **0.51** | 0.48 | 0.28 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 158.01 | 0.56 | 0.63 | 0.61 | 0.62 | **0.66** | 0.63 | 0.34 | 0.22 | 0.19 | 0.13 | 0.10 | 0.07 |
| 158.02 | 0.75 | 0.83 | 0.82 | 0.83 | **0.87** | 0.83 | 0.47 | 0.30 | 0.26 | 0.17 | 0.13 | 0.10 |
| 158.03 | 1.67 | 1.83 | 1.82 | 1.84 | **1.94** | 1.82 | 1.06 | 0.67 | 0.59 | 0.38 | 0.30 | 0.22 |
| 158.04 | 3.10 | 3.40 | 3.35 | 3.40 | **3.61** | 3.38 | 1.97 | 1.26 | 1.10 | 0.72 | 0.57 | 0.41 |
| 159.01 | 0.45 | 0.50 | 0.49 | 0.49 | **0.52** | 0.50 | 0.28 | 0.18 | 0.15 | 0.10 | 0.08 | 0.06 |
| 160.01 | 0.42 | 0.48 | 0.48 | 0.48 | **0.51** | 0.49 | 0.26 | 0.17 | 0.14 | 0.09 | 0.08 | 0.05 |
| 160.02 | 1.04 | 1.13 | 1.13 | 1.14 | **1.20** | 1.14 | 0.64 | 0.41 | 0.36 | 0.23 | 0.18 | 0.13 |
| 161.01 | 0.52 | 0.59 | 0.57 | 0.58 | **0.61** | 0.59 | 0.32 | 0.20 | 0.18 | 0.12 | 0.09 | 0.07 |
| 161.02 | 1.05 | 1.16 | 1.13 | 1.14 | **1.21** | 1.15 | 0.65 | 0.41 | 0.36 | 0.24 | 0.19 | 0.13 |
| 162.01 | 0.68 | 0.72 | 0.69 | 0.70 | **0.75** | 0.70 | 0.41 | 0.26 | 0.23 | 0.15 | 0.12 | 0.08 |
| 163.01 | 0.33 | 0.39 | 0.44 | 0.45 | **0.48** | 0.44 | 0.26 | 0.17 | 0.15 | 0.10 | 0.08 | 0.05 |
| 163.02 | 0.69 | 0.79 | 0.86 | 0.87 | **0.92** | 0.86 | 0.50 | 0.32 | 0.27 | 0.18 | 0.14 | 0.10 |
| 163.03 | 1.21 | 1.32 | 1.38 | 1.41 | **1.49** | 1.39 | 0.81 | 0.51 | 0.45 | 0.29 | 0.23 | 0.17 |
| 163.04 | 1.68 | 1.84 | 1.84 | 1.90 | **2.02** | 1.90 | 1.11 | 0.71 | 0.62 | 0.40 | 0.32 | 0.23 |
| 163.05 | 2.99 | 3.30 | 3.22 | 3.33 | **3.54** | 3.33 | 1.94 | 1.24 | 1.08 | 0.71 | 0.56 | 0.40 |
| 164.01 | 0.60 | 0.63 | 0.60 | 0.61 | **0.65** | 0.61 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 165.01 | 0.51 | 0.54 | 0.51 | 0.52 | **0.56** | 0.52 | 0.30 | 0.19 | 0.17 | 0.11 | 0.09 | 0.06 |
| 165.02 | 1.24 | 1.41 | 1.33 | 1.35 | **1.45** | 1.36 | 0.79 | 0.51 | 0.44 | 0.29 | 0.23 | 0.16 |
| 165.03 | 1.59 | **1.75** | 1.63 | 1.57 | 1.65 | 1.69 | 1.03 | 0.68 | 0.59 | 0.39 | 0.31 | 0.22 |
| 165.04 | 3.43 | 3.83 | 3.76 | 3.71 | **3.89** | 3.67 | 2.31 | 1.49 | 1.30 | 0.85 | 0.67 | 0.48 |
| 165.05 | 5.47 | 6.18 | 6.14 | 6.03 | **6.30** | 5.91 | 3.96 | 2.60 | 2.27 | 1.49 | 1.18 | 0.84 |
| 166.01 | 0.47 | 0.49 | 0.47 | 0.47 | **0.50** | 0.47 | 0.27 | 0.18 | 0.15 | 0.10 | 0.08 | 0.06 |
| 167.01 | 0.61 | 0.69 | 0.69 | 0.69 | **0.73** | 0.70 | 0.37 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 167.02 | 1.65 | 1.82 | 1.83 | 1.83 | **1.92** | 1.82 | 1.02 | 0.65 | 0.57 | 0.37 | 0.29 | 0.21 |
| 168.01 | 0.53 | 0.58 | 0.56 | 0.56 | **0.60** | 0.57 | 0.32 | 0.20 | 0.18 | 0.12 | 0.09 | 0.07 |
| 169.01 | 0.52 | 0.54 | 0.52 | 0.52 | **0.56** | 0.53 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 169.02 | 0.94 | 1.01 | 0.99 | 1.00 | **1.08** | 1.00 | 0.61 | 0.40 | 0.35 | 0.23 | 0.18 | 0.13 |
| 169.03 | 2.07 | 2.27 | 2.18 | 2.20 | **2.36** | 2.20 | 1.32 | 0.86 | 0.75 | 0.49 | 0.39 | 0.28 |
| 170.01 | 0.45 | 0.48 | 0.46 | 0.47 | **0.50** | 0.47 | 0.27 | 0.17 | 0.15 | 0.10 | 0.08 | 0.06 |
| 171.01 | 0.30 | **0.34** | 0.31 | 0.32 | 0.34 | 0.33 | 0.17 | 0.11 | 0.09 | 0.06 | 0.05 | 0.04 |
| 172.01 | 0.59 | 0.67 | 0.64 | 0.65 | **0.68** | 0.66 | 0.34 | 0.22 | 0.19 | 0.12 | 0.10 | 0.07 |
| 172.02 | 1.07 | 1.17 | 1.13 | 1.14 | **1.20** | 1.15 | 0.63 | 0.40 | 0.35 | 0.23 | 0.18 | 0.13 |
| 173.01 | 0.39 | 0.56 | 0.63 | 0.75 | **0.87** | 0.86 | 0.67 | 0.51 | 0.44 | 0.29 | 0.23 | 0.16 |
| 173.02 | 1.10 | 1.32 | 1.45 | 1.63 | **1.88** | 1.66 | 1.28 | 0.91 | 0.80 | 0.52 | 0.41 | 0.29 |
| 173.03 | 1.28 | 1.40 | 1.51 | 1.71 | **1.93** | 1.76 | 1.31 | 0.97 | 0.85 | 0.56 | 0.44 | 0.31 |
| 173.04 | 2.46 | 2.69 | 2.76 | 2.94 | **3.27** | 2.95 | 2.06 | 1.45 | 1.26 | 0.83 | 0.65 | 0.46 |
| 173.05 | 3.02 | 3.26 | 3.16 | 3.31 | **3.59** | 3.49 | 2.39 | 1.70 | 1.49 | 0.98 | 0.77 | 0.55 |
| 174.01 | 0.39 | 0.43 | 0.41 | 0.41 | **0.44** | 0.42 | 0.22 | 0.14 | 0.12 | 0.08 | 0.06 | 0.05 |
| 175.01 | 0.66 | 0.74 | 0.73 | 0.74 | **0.78** | 0.75 | 0.41 | 0.26 | 0.23 | 0.15 | 0.12 | 0.08 |
| 175.02 | 1.39 | 1.56 | 1.57 | 1.57 | **1.65** | 1.55 | 0.88 | 0.56 | 0.49 | 0.32 | 0.25 | 0.18 |
| 175.03 | 2.28 | 2.50 | 2.50 | 2.53 | **2.67** | 2.51 | 1.45 | 0.92 | 0.81 | 0.53 | 0.42 | 0.30 |
| 175.04 | 2.84 | 3.13 | 3.10 | 3.20 | **3.40** | 3.18 | 1.89 | 1.20 | 1.05 | 0.69 | 0.54 | 0.39 |
| 175.05 | 3.27 | 3.62 | 3.55 | 3.62 | **3.86** | 3.67 | 2.21 | 1.41 | 1.23 | 0.81 | 0.64 | 0.46 |
| 176.01 | 0.26 | 0.31 | 0.34 | 0.37 | **0.40** | 0.37 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 177.01 | 0.37 | 0.41 | 0.41 | 0.41 | **0.43** | 0.42 | 0.22 | 0.14 | 0.12 | 0.08 | 0.06 | 0.05 |
| 177.02 | 1.03 | 1.15 | 1.17 | 1.16 | **1.22** | 1.15 | 0.64 | 0.41 | 0.36 | 0.23 | 0.18 | 0.13 |
| 177.03 | 2.93 | 3.20 | 3.18 | 3.19 | **3.37** | 3.18 | 1.83 | 1.16 | 1.02 | 0.66 | 0.53 | 0.38 |
| 177.04 | 4.02 | 4.39 | 4.33 | 4.38 | **4.63** | 4.36 | 2.52 | 1.61 | 1.40 | 0.92 | 0.73 | 0.52 |
| 178.01 | 0.86 | 0.93 | 0.90 | 0.91 | **0.97** | 0.92 | 0.52 | 0.33 | 0.29 | 0.19 | 0.15 | 0.11 |
| 178.02 | 1.34 | 1.48 | 1.45 | 1.46 | **1.55** | 1.49 | 0.83 | 0.53 | 0.46 | 0.30 | 0.24 | 0.17 |
| 179.01 | 0.66 | 0.74 | 0.73 | 0.73 | **0.78** | 0.75 | 0.41 | 0.26 | 0.23 | 0.15 | 0.12 | 0.08 |
| 180.01 | 0.67 | 0.73 | 0.71 | 0.72 | **0.76** | 0.73 | 0.41 | 0.26 | 0.23 | 0.15 | 0.12 | 0.08 |
| 180.02 | 1.19 | 1.30 | 1.29 | 1.32 | **1.42** | 1.32 | 0.78 | 0.50 | 0.43 | 0.28 | 0.22 | 0.16 |
| 180.03 | 1.69 | 1.86 | 1.84 | 1.88 | **2.00** | 1.89 | 1.09 | 0.70 | 0.61 | 0.40 | 0.31 | 0.22 |
| 180.04 | 2.46 | 2.70 | 2.64 | 2.69 | **2.86** | 2.71 | 1.55 | 0.99 | 0.86 | 0.56 | 0.45 | 0.32 |
| 181.01 | 0.25 | 0.31 | 0.33 | 0.37 | **0.41** | 0.37 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 181.02 | 0.98 | 1.07 | 1.10 | 1.14 | **1.23** | 1.14 | 0.69 | 0.44 | 0.39 | 0.25 | 0.20 | 0.14 |
| 181.03 | 1.67 | 1.82 | 1.78 | 1.84 | **1.98** | 1.85 | 1.12 | 0.72 | 0.63 | 0.41 | 0.33 | 0.23 |
| 181.04 | 3.02 | 3.36 | 3.36 | 3.52 | **3.77** | 3.54 | 2.18 | 1.40 | 1.22 | 0.80 | 0.63 | 0.45 |
| 181.05 | 3.40 | 3.76 | 3.65 | 3.81 | **4.06** | 3.92 | 2.45 | 1.59 | 1.38 | 0.90 | 0.71 | 0.51 |
| 181.06 | 3.82 | 4.20 | 4.03 | 4.06 | 4.30 | **4.31** | 2.73 | 1.77 | 1.54 | 1.01 | 0.80 | 0.57 |
| 181.07 | 8.42 | 9.35 | 9.38 | 9.43 | **10.11** | 9.44 | 5.97 | 3.84 | 3.35 | 2.19 | 1.73 | 1.24 |
| 181.08 | 8.78 | 9.70 | 9.67 | 9.74 | **10.40** | 9.78 | 6.19 | 4.00 | 3.49 | 2.28 | 1.80 | 1.29 |
| 182.01 | 0.46 | 0.51 | 0.50 | 0.51 | **0.54** | 0.52 | 0.29 | 0.19 | 0.16 | 0.11 | 0.08 | 0.06 |
| 182.02 | 0.77 | 0.87 | 0.87 | 0.89 | **0.94** | 0.89 | 0.51 | 0.32 | 0.28 | 0.18 | 0.15 | 0.10 |
| 182.03 | 1.21 | 1.38 | 1.46 | 1.55 | **1.67** | 1.54 | 0.96 | 0.61 | 0.54 | 0.35 | 0.28 | 0.20 |
| 183.01 | 0.41 | 0.47 | 0.52 | 0.55 | **0.59** | 0.55 | 0.34 | 0.22 | 0.19 | 0.12 | 0.10 | 0.07 |
| 183.02 | 1.02 | 1.14 | 1.17 | 1.21 | **1.29** | 1.20 | 0.72 | 0.46 | 0.40 | 0.26 | 0.21 | 0.15 |
| 183.03 | 2.70 | 2.90 | 2.94 | 3.00 | **3.21** | 2.98 | 1.80 | 1.15 | 1.00 | 0.66 | 0.52 | 0.37 |
| 183.04 | 3.23 | 3.51 | 3.49 | 3.57 | **3.82** | 3.57 | 2.13 | 1.36 | 1.19 | 0.78 | 0.61 | 0.44 |
| 184.01 | 1.10 | 1.19 | 1.18 | 1.21 | **1.30** | 1.21 | 0.71 | 0.45 | 0.40 | 0.26 | 0.20 | 0.15 |
| 185.01 | 0.63 | 0.70 | 0.68 | 0.69 | **0.73** | 0.70 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 185.02 | 1.43 | 1.60 | 1.60 | 1.60 | **1.69** | 1.59 | 0.90 | 0.57 | 0.50 | 0.33 | 0.26 | 0.19 |
| 186.01 | 0.24 | 0.26 | 0.24 | 0.24 | **0.26** | 0.25 | 0.14 | 0.10 | 0.08 | 0.05 | 0.04 | 0.03 |
| 187.01 | 0.61 | 0.70 | 0.69 | 0.70 | **0.74** | 0.71 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 187.02 | 1.31 | 1.42 | 1.42 | 1.43 | **1.51** | 1.42 | 0.81 | 0.51 | 0.45 | 0.29 | 0.23 | 0.17 |
| 187.03 | 1.60 | 1.74 | 1.69 | 1.73 | **1.83** | 1.73 | 0.99 | 0.63 | 0.55 | 0.36 | 0.28 | 0.20 |
| 187.04 | 2.20 | 2.42 | 2.34 | 2.38 | **2.52** | 2.39 | 1.35 | 0.86 | 0.75 | 0.49 | 0.39 | 0.28 |
| 187.05 | 2.60 | 2.84 | 2.76 | 2.75 | **2.91** | 2.79 | 1.62 | 1.03 | 0.90 | 0.59 | 0.47 | 0.33 |
| 188.01 | 0.64 | 0.74 | 0.73 | 0.73 | **0.78** | 0.75 | 0.40 | 0.26 | 0.22 | 0.15 | 0.12 | 0.08 |
| 188.02 | 1.01 | 1.12 | 1.13 | 1.13 | **1.19** | 1.13 | 0.63 | 0.40 | 0.35 | 0.23 | 0.18 | 0.13 |
| 189.01 | 0.74 | 0.84 | 0.82 | 0.83 | **0.88** | 0.85 | 0.46 | 0.29 | 0.25 | 0.17 | 0.13 | 0.09 |
| 189.02 | 1.36 | **1.51** | 1.41 | 1.40 | 1.45 | 1.49 | 0.88 | 0.56 | 0.49 | 0.32 | 0.26 | 0.18 |
| 190.01 | 0.33 | 0.37 | 0.36 | 0.36 | **0.38** | 0.37 | 0.19 | 0.12 | 0.11 | 0.07 | 0.06 | 0.04 |
| 191.01 | 0.58 | 0.67 | 0.66 | 0.67 | **0.70** | 0.68 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 191.02 | 0.89 | 0.99 | 0.99 | 1.00 | **1.05** | 1.00 | 0.56 | 0.35 | 0.31 | 0.20 | 0.16 | 0.11 |
| 191.03 | 1.70 | 1.88 | 1.86 | 1.89 | **2.00** | 1.88 | 1.08 | 0.69 | 0.60 | 0.39 | 0.31 | 0.22 |
| 191.04 | 2.50 | 2.75 | 2.75 | 2.77 | **2.92** | 2.75 | 1.58 | 1.00 | 0.88 | 0.57 | 0.45 | 0.33 |

| Subcatchment ID | Peak Discharge ($m^3/s$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 min | 20 min | 30 min | 60 min | 90 min | 120 min | 180 min | 360 min | 720 min | 1440 min | 2880 min | 4320 min |
| 191.05 | 3.57 | 4.00 | 3.89 | 3.97 | **4.21** | 3.96 | 2.29 | 1.46 | 1.27 | 0.83 | 0.66 | 0.47 |
| 191.06 | 6.12 | 6.84 | 6.71 | 6.88 | **7.41** | 6.95 | 4.28 | 2.79 | 2.44 | 1.59 | 1.26 | 0.90 |
| 191.07 | 7.37 | 8.30 | 8.24 | 8.51 | **9.11** | 8.54 | 5.36 | 3.50 | 3.05 | 1.99 | 1.58 | 1.13 |
| 191.08 | 8.24 | 9.27 | 8.89 | 9.38 | **9.84** | 9.65 | 6.12 | 4.05 | 3.53 | 2.30 | 1.82 | 1.30 |
| 192.01 | 2.13 | 2.23 | 2.15 | 2.19 | **2.36** | 2.20 | 1.30 | 0.84 | 0.73 | 0.48 | 0.38 | 0.27 |
| 193.01 | 0.90 | 0.97 | 0.99 | 1.03 | **1.11** | 1.03 | 0.62 | 0.40 | 0.35 | 0.23 | 0.18 | 0.13 |
| 194.01 | 0.82 | 0.95 | 1.06 | 1.14 | **1.24** | 1.13 | 0.72 | 0.46 | 0.40 | 0.26 | 0.21 | 0.15 |
| 194.02 | 2.54 | 3.41 | 3.54 | 4.22 | **5.01** | 4.71 | 3.57 | 2.46 | 2.14 | 1.39 | 1.09 | 0.77 |
| 194.03 | 3.01 | 3.79 | 3.97 | 4.82 | **5.47** | 5.15 | 3.98 | 2.83 | 2.47 | 1.60 | 1.26 | 0.89 |
| 195.01 | 0.67 | 1.06 | 1.14 | 1.38 | **1.63** | 1.62 | 1.22 | 0.83 | 0.72 | 0.47 | 0.37 | 0.26 |
| 196.01 | 2.94 | 3.19 | 3.29 | 3.47 | **3.82** | 3.48 | 2.24 | 1.46 | 1.27 | 0.83 | 0.65 | 0.47 |
| 197.01 | 1.74 | 2.04 | 2.27 | 2.44 | **2.61** | 2.39 | 1.50 | 0.96 | 0.83 | 0.54 | 0.43 | 0.30 |
| 198.01 | 1.04 | 1.87 | 1.80 | 2.22 | **2.47** | 2.37 | 1.67 | 1.06 | 0.92 | 0.59 | 0.46 | 0.32 |
| 200.01 | 0.67 | 0.70 | 0.67 | 0.67 | **0.72** | 0.68 | 0.40 | 0.25 | 0.22 | 0.15 | 0.12 | 0.08 |
| 200.02 | 1.15 | 1.23 | 1.17 | 1.18 | **1.27** | 1.19 | 0.72 | 0.48 | 0.42 | 0.27 | 0.22 | 0.16 |
| 200.03 | 2.10 | 2.28 | 2.24 | 2.30 | **2.49** | 2.31 | 1.41 | 0.93 | 0.81 | 0.53 | 0.42 | 0.30 |
| 200.04 | 2.89 | 3.33 | 3.41 | 3.48 | **3.73** | 3.46 | 2.10 | 1.37 | 1.19 | 0.78 | 0.62 | 0.44 |
| 200.05 | 4.59 | 5.12 | 5.21 | 5.08 | **5.40** | 5.16 | 3.29 | 2.14 | 1.87 | 1.22 | 0.97 | 0.69 |
| 200.06 | 7.11 | 8.18 | 8.53 | 8.48 | **8.98** | 8.34 | 5.53 | 3.57 | 3.11 | 2.03 | 1.60 | 1.14 |
| 200.07 | 8.16 | 9.74 | 10.15 | 10.20 | **10.75** | 9.97 | 6.64 | 4.28 | 3.73 | 2.43 | 1.92 | 1.36 |
| 200.08 | 9.15 | 11.33 | 11.66 | 11.78 | **12.25** | 11.70 | 7.75 | 5.00 | 4.36 | 2.83 | 2.23 | 1.58 |
| 200.09 | 12.11 | 16.97 | 16.37 | 16.83 | 17.24 | **17.55** | 11.73 | 7.53 | 6.55 | 4.25 | 3.34 | 2.35 |
| 201.01 | 0.77 | 0.84 | 0.81 | 0.81 | **0.87** | 0.84 | 0.46 | 0.29 | 0.25 | 0.17 | 0.13 | 0.09 |
| 202.01 | 0.80 | **0.87** | 0.81 | 0.82 | 0.87 | 0.84 | 0.44 | 0.28 | 0.25 | 0.16 | 0.13 | 0.09 |
| 203.01 | 0.73 | 0.84 | 0.86 | 0.86 | **0.91** | 0.88 | 0.48 | 0.31 | 0.27 | 0.18 | 0.14 | 0.10 |
| 204.01 | 0.97 | 1.11 | 1.27 | 1.26 | **1.32** | 1.23 | 0.72 | 0.46 | 0.40 | 0.26 | 0.20 | 0.15 |
| 205.01 | 0.32 | 0.45 | 0.46 | 0.54 | **0.59** | 0.52 | 0.38 | 0.24 | 0.21 | 0.13 | 0.11 | 0.07 |
| 206.01 | 2.70 | 3.74 | 3.96 | 4.10 | **4.29** | 3.87 | 2.47 | 1.56 | 1.35 | 0.87 | 0.69 | 0.48 |
| 207.01 | 0.81 | 0.85 | 0.80 | 0.80 | **0.85** | 0.81 | 0.46 | 0.29 | 0.25 | 0.17 | 0.13 | 0.09 |
| 207.02 | 1.50 | 1.63 | 1.61 | 1.62 | **1.72** | 1.61 | 0.93 | 0.60 | 0.52 | 0.34 | 0.27 | 0.19 |
| 207.03 | 1.65 | 1.80 | 1.80 | 1.86 | **1.97** | 1.85 | 1.09 | 0.70 | 0.61 | 0.40 | 0.31 | 0.22 |
| 207.04 | 4.14 | 4.59 | 4.55 | 4.71 | **5.08** | 4.75 | 3.11 | 2.03 | 1.77 | 1.16 | 0.91 | 0.65 |
| 207.05 | 5.77 | 6.55 | 6.42 | 6.51 | **6.99** | 6.61 | 4.27 | 2.78 | 2.43 | 1.59 | 1.25 | 0.90 |
| 207.06 | 6.37 | 7.13 | 6.96 | 7.06 | **7.49** | 7.17 | 4.70 | 3.06 | 2.67 | 1.74 | 1.38 | 0.98 |
| 207.07 | 10.44 | 11.75 | 12.48 | 12.64 | **13.67** | 12.61 | 8.63 | 5.79 | 5.06 | 3.32 | 2.62 | 1.86 |
| 207.08 | 15.22 | 17.71 | 18.27 | 18.33 | **19.48** | 18.31 | 12.86 | 8.55 | 7.47 | 4.89 | 3.87 | 2.75 |
| 207.09 | 17.51 | 21.00 | 21.30 | 21.40 | **22.57** | 21.67 | 15.16 | 10.01 | 8.74 | 5.71 | 4.51 | 3.21 |
| 207.10 | 18.12 | 21.91 | 22.11 | 22.30 | **23.37** | 22.75 | 15.79 | 10.48 | 9.15 | 5.98 | 4.72 | 3.36 |
| 207.11 | 19.31 | 23.98 | 24.00 | 24.30 | **25.25** | 25.09 | 17.28 | 11.51 | 10.05 | 6.56 | 5.18 | 3.68 |
| 207.12 | 28.35 | 34.74 | 35.17 | 35.67 | **37.35** | 36.31 | 24.61 | 16.22 | 14.16 | 9.24 | 7.30 | 5.19 |
| 207.13 | 30.05 | 37.22 | 37.37 | 38.19 | **39.84** | 39.08 | 26.54 | 17.52 | 15.29 | 9.97 | 7.87 | 5.58 |
| 207.14 | 31.13 | 39.01 | 38.98 | 39.99 | **41.53** | 41.00 | 27.78 | 18.45 | 16.10 | 10.50 | 8.28 | 5.87 |
| 208.01 | 0.31 | 0.48 | 0.47 | 0.58 | **0.65** | 0.60 | 0.43 | 0.28 | 0.24 | 0.16 | 0.12 | 0.09 |
| 208.02 | 0.57 | 0.75 | 0.79 | 0.92 | **1.03** | 0.90 | 0.66 | 0.42 | 0.37 | 0.24 | 0.19 | 0.13 |
| 208.03 | 0.85 | 1.05 | 1.12 | 1.26 | **1.41** | 1.26 | 0.90 | 0.58 | 0.51 | 0.33 | 0.26 | 0.18 |
| 208.04 | 1.89 | 2.09 | 2.17 | 2.33 | **2.56** | 2.32 | 1.55 | 1.00 | 0.87 | 0.57 | 0.45 | 0.32 |
| 208.05 | 2.32 | 2.52 | 2.50 | 2.61 | **2.86** | 2.73 | 1.84 | 1.20 | 1.05 | 0.68 | 0.54 | 0.38 |
| 209.01 | 0.54 | 0.57 | 0.54 | 0.54 | **0.58** | 0.55 | 0.32 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 210.01 | 1.15 | 1.24 | 1.19 | 1.21 | **1.28** | 1.23 | 0.68 | 0.43 | 0.38 | 0.25 | 0.20 | 0.14 |
| 210.02 | 1.61 | 1.75 | 1.70 | 1.71 | **1.83** | 1.73 | 0.99 | 0.63 | 0.55 | 0.36 | 0.28 | 0.20 |
| 211.01 | 0.26 | 0.38 | 0.38 | 0.47 | **0.57** | 0.54 | 0.41 | 0.28 | 0.24 | 0.16 | 0.12 | 0.09 |
| 211.02 | 0.46 | 0.77 | 0.90 | 1.08 | 1.18 | **1.22** | 0.94 | 0.69 | 0.60 | 0.39 | 0.30 | 0.21 |
| 211.03 | 0.87 | 1.37 | 1.38 | 1.69 | **1.97** | 1.96 | 1.49 | 1.13 | 1.00 | 0.66 | 0.52 | 0.37 |
| 211.04 | 1.29 | 1.84 | 1.89 | 2.20 | **2.55** | 2.41 | 1.82 | 1.34 | 1.19 | 0.78 | 0.62 | 0.43 |
| 212.01 | 0.08 | 0.10 | 0.13 | 0.17 | 0.18 | **0.18** | 0.16 | 0.16 | 0.15 | 0.11 | 0.09 | 0.06 |
| 212.02 | 0.21 | 0.30 | 0.30 | 0.37 | **0.43** | 0.42 | 0.31 | 0.27 | 0.25 | 0.18 | 0.14 | 0.10 |
| 213.01 | 0.44 | 0.50 | 0.49 | 0.49 | **0.52** | 0.50 | 0.26 | 0.17 | 0.15 | 0.09 | 0.08 | 0.05 |
| 213.02 | 0.75 | 0.84 | 0.85 | 0.84 | **0.88** | 0.83 | 0.46 | 0.29 | 0.26 | 0.17 | 0.13 | 0.10 |
| 214.01 | 0.54 | 0.61 | 0.61 | 0.61 | **0.65** | 0.62 | 0.33 | 0.21 | 0.19 | 0.12 | 0.10 | 0.07 |
| 214.02 | 1.16 | 1.33 | 1.31 | 1.32 | **1.39** | 1.34 | 0.71 | 0.45 | 0.40 | 0.26 | 0.21 | 0.15 |
| 215.01 | 0.49 | 0.52 | 0.50 | 0.50 | **0.54** | 0.51 | 0.29 | 0.19 | 0.16 | 0.11 | 0.08 | 0.06 |
| 215.02 | 0.87 | 0.94 | 0.92 | 0.93 | **0.99** | 0.93 | 0.54 | 0.35 | 0.30 | 0.20 | 0.16 | 0.11 |
| 216.01 | 0.28 | 0.33 | 0.37 | 0.39 | **0.41** | 0.38 | 0.23 | 0.15 | 0.13 | 0.08 | 0.07 | 0.05 |
| 216.02 | 0.80 | 0.98 | 1.07 | 1.16 | **1.25** | 1.13 | 0.73 | 0.47 | 0.41 | 0.26 | 0.21 | 0.15 |
| 216.03 | 1.40 | 1.63 | 1.77 | 1.91 | **2.05** | 1.88 | 1.22 | 0.78 | 0.68 | 0.44 | 0.35 | 0.25 |
| 216.04 | 2.47 | 2.75 | 2.88 | 3.07 | **3.28** | 3.03 | 1.89 | 1.21 | 1.05 | 0.69 | 0.54 | 0.39 |
| 217.01 | 0.18 | 0.24 | 0.25 | 0.27 | **0.28** | 0.26 | 0.16 | 0.10 | 0.09 | 0.06 | 0.05 | 0.03 |
| 218.01 | 0.13 | 0.18 | 0.19 | 0.20 | **0.21** | 0.19 | 0.13 | 0.08 | 0.07 | 0.04 | 0.04 | 0.02 |
| 219.01 | 0.20 | 0.25 | 0.27 | 0.28 | **0.30** | 0.27 | 0.17 | 0.11 | 0.09 | 0.06 | 0.05 | 0.03 |
| 220.01 | 0.44 | 0.51 | 0.50 | 0.50 | **0.53** | 0.52 | 0.28 | 0.18 | 0.15 | 0.10 | 0.08 | 0.06 |
| 221.01 | 0.41 | 0.47 | 0.47 | 0.47 | **0.49** | 0.48 | 0.26 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 221.02 | 0.95 | 1.09 | 1.07 | 1.08 | **1.14** | 1.10 | 0.59 | 0.38 | 0.33 | 0.21 | 0.17 | 0.12 |
| 221.03 | 1.18 | 1.34 | 1.31 | 1.33 | **1.41** | 1.35 | 0.74 | 0.47 | 0.41 | 0.27 | 0.21 | 0.15 |
| 221.04 | 1.72 | 1.95 | 1.88 | 1.94 | **2.06** | 1.96 | 1.09 | 0.69 | 0.60 | 0.39 | 0.31 | 0.22 |
| 221.05 | 2.22 | **2.45** | 2.22 | 2.27 | 2.29 | 2.44 | 1.46 | 0.93 | 0.81 | 0.53 | 0.42 | 0.30 |
| 221.06 | 2.39 | **2.63** | 2.30 | 2.38 | 2.36 | 2.60 | 1.57 | 1.00 | 0.88 | 0.57 | 0.45 | 0.32 |
| 222.01 | 0.46 | 0.51 | 0.50 | 0.51 | **0.54** | 0.52 | 0.29 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 222.02 | 0.76 | 0.84 | 0.83 | 0.84 | **0.89** | 0.84 | 0.48 | 0.31 | 0.27 | 0.17 | 0.14 | 0.10 |
| 222.03 | 1.58 | 1.78 | 2.04 | 2.03 | **2.14** | 1.99 | 1.17 | 0.74 | 0.65 | 0.42 | 0.33 | 0.24 |
| 223.01 | 0.19 | 0.22 | 0.22 | 0.22 | **0.23** | 0.22 | 0.12 | 0.08 | 0.07 | 0.04 | 0.03 | 0.02 |
| 224.01 | 0.36 | 0.64 | 0.61 | 0.70 | **0.74** | 0.69 | 0.46 | 0.29 | 0.25 | 0.16 | 0.13 | 0.09 |
| 225.01 | 0.39 | 0.42 | 0.40 | 0.41 | **0.43** | 0.41 | 0.23 | 0.15 | 0.13 | 0.08 | 0.07 | 0.05 |
| 226.01 | 0.17 | 0.22 | 0.24 | 0.25 | **0.27** | 0.24 | 0.15 | 0.10 | 0.08 | 0.05 | 0.04 | 0.03 |
| 226.02 | 0.54 | 0.61 | 0.66 | 0.69 | **0.72** | 0.67 | 0.40 | 0.25 | 0.22 | 0.14 | 0.11 | 0.08 |
| 226.03 | 1.26 | 1.41 | 1.46 | 1.49 | **1.57** | 1.47 | 0.86 | 0.55 | 0.48 | 0.31 | 0.25 | 0.18 |
| 226.04 | 1.98 | 2.19 | 2.20 | 2.25 | **2.39** | 2.23 | 1.32 | 0.84 | 0.73 | 0.48 | 0.38 | 0.27 |
| 226.05 | 7.49 | 8.35 | 8.55 | 8.85 | **9.47** | 8.82 | 5.42 | 3.47 | 3.03 | 1.98 | 1.56 | 1.11 |
| 226.06 | 8.60 | 9.58 | 9.87 | 10.17 | **10.88** | 10.08 | 6.16 | 3.94 | 3.44 | 2.24 | 1.78 | 1.27 |
| 226.07 | 9.41 | 10.59 | 10.83 | 11.13 | **11.93** | 11.18 | 6.87 | 4.41 | 3.84 | 2.51 | 1.98 | 1.41 |
| 226.08 | 9.63 | 11.17 | 11.42 | 11.72 | **12.52** | 11.77 | 7.23 | 4.65 | 4.05 | 2.64 | 2.09 | 1.49 |
| 227.01 | 0.14 | 0.16 | 0.16 | 0.16 | **0.16** | 0.16 | 0.08 | 0.05 | 0.05 | 0.03 | 0.02 | 0.02 |
| 228.01 | 0.29 | 0.33 | 0.33 | 0.33 | **0.35** | 0.34 | 0.18 | 0.12 | 0.10 | 0.07 | 0.05 | 0.04 |
| 229.01 | 0.21 | 0.24 | 0.23 | 0.23 | **0.25** | 0.24 | 0.13 | 0.08 | 0.07 | 0.05 | 0.04 | 0.03 |

| Subcatchment ID | Peak Discharge ($m^3/s$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 min | 20 min | 30 min | 60 min | 90 min | 120 min | 180 min | 360 min | 720 min | 1440 min | 2880 min | 4320 min |
| 230.01 | 0.22 | 0.24 | 0.23 | 0.23 | **0.25** | 0.23 | 0.13 | 0.09 | 0.07 | 0.05 | 0.04 | 0.03 |
| 231.01 | 0.24 | 0.26 | 0.25 | 0.26 | **0.27** | 0.26 | 0.15 | 0.09 | 0.08 | 0.05 | 0.04 | 0.03 |
| 232.01 | 0.65 | 0.67 | 0.64 | 0.64 | **0.69** | 0.65 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 232.02 | 1.00 | 1.07 | 1.05 | 1.05 | **1.12** | 1.05 | 0.60 | 0.39 | 0.34 | 0.22 | 0.17 | 0.13 |
| 232.03 | 2.25 | 2.44 | 2.43 | 2.44 | **2.58** | 2.43 | 1.41 | 0.90 | 0.78 | 0.51 | 0.41 | 0.29 |
| 233.01 | 0.40 | 0.45 | 0.45 | 0.45 | **0.48** | 0.46 | 0.25 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 233.02 | 0.69 | 0.76 | 0.77 | 0.77 | **0.81** | 0.77 | 0.44 | 0.28 | 0.24 | 0.16 | 0.13 | 0.09 |
| 234.01 | 0.47 | 0.52 | 0.55 | 0.59 | **0.64** | 0.58 | 0.37 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 234.02 | 0.79 | 0.93 | 1.03 | 1.13 | **1.24** | 1.11 | 0.74 | 0.48 | 0.41 | 0.27 | 0.21 | 0.15 |
| 234.03 | 2.90 | 3.26 | 3.43 | 3.63 | **3.94** | 3.65 | 2.33 | 1.49 | 1.30 | 0.85 | 0.67 | 0.48 |
| 235.01 | 0.05 | 0.11 | 0.11 | 0.14 | 0.16 | **0.16** | 0.11 | 0.07 | 0.06 | 0.04 | 0.03 | 0.02 |
| 236.01 | 0.28 | 0.31 | 0.30 | 0.30 | **0.32** | 0.31 | 0.16 | 0.10 | 0.09 | 0.06 | 0.05 | 0.03 |
| 236.02 | 0.42 | 0.46 | 0.46 | 0.46 | **0.49** | 0.46 | 0.26 | 0.16 | 0.14 | 0.09 | 0.07 | 0.05 |
| 237.01 | 0.33 | 0.37 | 0.39 | 0.40 | **0.42** | 0.40 | 0.23 | 0.15 | 0.13 | 0.08 | 0.07 | 0.05 |
| 237.02 | 0.65 | 0.78 | 0.86 | 0.95 | **1.05** | 0.94 | 0.64 | 0.41 | 0.36 | 0.23 | 0.18 | 0.13 |
| 238.01 | 0.23 | 0.27 | 0.26 | 0.26 | **0.28** | 0.27 | 0.14 | 0.09 | 0.08 | 0.05 | 0.04 | 0.03 |
| 238.02 | 0.58 | 0.64 | 0.64 | 0.64 | **0.67** | 0.64 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 239.01 | 0.31 | 0.34 | 0.34 | 0.34 | **0.36** | 0.35 | 0.19 | 0.12 | 0.10 | 0.07 | 0.05 | 0.04 |
| 240.01 | 0.48 | 0.73 | 0.73 | 0.92 | **1.09** | 1.05 | 0.78 | 0.52 | 0.45 | 0.29 | 0.23 | 0.16 |
| 240.02 | 0.96 | 1.26 | 1.35 | 1.53 | **1.72** | 1.56 | 1.15 | 0.76 | 0.66 | 0.42 | 0.33 | 0.23 |
| 241.01 | 2.53 | 4.22 | 4.19 | 4.56 | **4.77** | 4.37 | 2.88 | 1.81 | 1.57 | 1.01 | 0.79 | 0.55 |
| 242.01 | 0.49 | 0.51 | 0.48 | 0.48 | **0.52** | 0.49 | 0.28 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 242.02 | 1.21 | 1.32 | 1.27 | 1.28 | **1.37** | 1.28 | 0.75 | 0.49 | 0.42 | 0.28 | 0.22 | 0.16 |
| 242.03 | 1.75 | 1.98 | 1.89 | 1.91 | **2.04** | 1.92 | 1.12 | 0.72 | 0.63 | 0.41 | 0.33 | 0.23 |
| 242.04 | 1.86 | 2.10 | 1.98 | 2.01 | **2.13** | 2.04 | 1.19 | 0.77 | 0.67 | 0.44 | 0.35 | 0.25 |
| 242.05 | 3.59 | 4.12 | 4.24 | 4.29 | **4.60** | 4.21 | 2.66 | 1.71 | 1.49 | 0.97 | 0.77 | 0.55 |
| 242.06 | 4.91 | 5.62 | 5.70 | 5.61 | **5.98** | 5.70 | 3.61 | 2.32 | 2.02 | 1.32 | 1.05 | 0.75 |
| 242.07 | 5.32 | 6.01 | 6.32 | 6.22 | **6.63** | 6.27 | 3.97 | 2.55 | 2.22 | 1.45 | 1.15 | 0.82 |
| 242.08 | 9.58 | 12.04 | 12.81 | 12.85 | **13.41** | 12.75 | 8.07 | 5.14 | 4.48 | 2.90 | 2.28 | 1.61 |
| 243.01 | 0.22 | 0.27 | 0.29 | 0.33 | **0.37** | 0.33 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 243.02 | 1.07 | 1.21 | 1.34 | 1.44 | **1.57** | 1.42 | 0.94 | 0.60 | 0.53 | 0.34 | 0.27 | 0.19 |
| 244.01 | 0.32 | 0.41 | 0.44 | 0.50 | **0.55** | 0.49 | 0.33 | 0.21 | 0.19 | 0.12 | 0.09 | 0.07 |
| 245.01 | 0.30 | 0.34 | 0.33 | 0.33 | **0.35** | 0.34 | 0.18 | 0.12 | 0.10 | 0.07 | 0.05 | 0.04 |
| 246.01 | 0.22 | 0.24 | 0.22 | 0.23 | **0.24** | 0.23 | 0.13 | 0.08 | 0.07 | 0.05 | 0.04 | 0.03 |
| 246.02 | 0.52 | 0.60 | 0.68 | 0.67 | **0.70** | 0.65 | 0.38 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 247.01 | 0.52 | 0.59 | 0.65 | 0.64 | **0.67** | 0.63 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 247.02 | 1.22 | 1.57 | 1.72 | 1.74 | **1.82** | 1.67 | 1.02 | 0.64 | 0.56 | 0.36 | 0.28 | 0.20 |
| 248.01 | 0.54 | 0.80 | 0.84 | 0.85 | **0.89** | 0.81 | 0.51 | 0.32 | 0.28 | 0.18 | 0.14 | 0.10 |
| 249.01 | 0.09 | 0.14 | 0.15 | 0.18 | **0.21** | 0.21 | 0.15 | 0.10 | 0.09 | 0.06 | 0.04 | 0.03 |
| 249.02 | 0.44 | 0.53 | 0.59 | 0.64 | **0.70** | 0.63 | 0.42 | 0.28 | 0.24 | 0.16 | 0.12 | 0.09 |
| 249.03 | 1.03 | 1.20 | 1.27 | 1.33 | **1.43** | 1.32 | 0.82 | 0.53 | 0.46 | 0.30 | 0.24 | 0.17 |
| 249.04 | 2.59 | 2.96 | 3.05 | 3.14 | **3.36** | 3.11 | 1.90 | 1.22 | 1.06 | 0.69 | 0.55 | 0.39 |
| 249.05 | 7.82 | 8.76 | 9.03 | 9.23 | **9.80** | 9.12 | 5.44 | 3.47 | 3.03 | 1.98 | 1.56 | 1.12 |
| 249.06 | 11.45 | 14.13 | 15.56 | 16.31 | **17.31** | 16.11 | 10.08 | 6.40 | 5.58 | 3.62 | 2.85 | 2.02 |
| 250.01 | 0.15 | **0.16** | 0.15 | 0.14 | 0.15 | 0.14 | 0.08 | 0.05 | 0.05 | 0.03 | 0.03 | 0.02 |
| 251.01 | 0.35 | 0.37 | 0.35 | 0.36 | **0.38** | 0.36 | 0.21 | 0.13 | 0.12 | 0.08 | 0.06 | 0.04 |
| 252.01 | 0.37 | 0.41 | 0.42 | 0.44 | **0.47** | 0.44 | 0.27 | 0.17 | 0.15 | 0.10 | 0.08 | 0.05 |
| 252.02 | 0.68 | 0.76 | 0.77 | 0.79 | **0.84** | 0.79 | 0.46 | 0.30 | 0.26 | 0.17 | 0.13 | 0.10 |
| 253.01 | 0.56 | 0.61 | 0.59 | 0.59 | **0.63** | 0.61 | 0.33 | 0.21 | 0.19 | 0.12 | 0.10 | 0.07 |
| 253.02 | 2.13 | 2.33 | 2.25 | 2.29 | **2.43** | 2.32 | 1.30 | 0.83 | 0.72 | 0.47 | 0.37 | 0.27 |
| 253.03 | 2.58 | 2.81 | 2.71 | 2.76 | **2.95** | 2.80 | 1.59 | 1.01 | 0.88 | 0.58 | 0.46 | 0.33 |
| 254.01 | 0.57 | 0.62 | 0.60 | 0.61 | **0.65** | 0.62 | 0.35 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 255.01 | 0.50 | 0.56 | 0.59 | 0.62 | **0.66** | 0.61 | 0.37 | 0.24 | 0.21 | 0.14 | 0.11 | 0.08 |
| 256.01 | 0.43 | 0.49 | 0.51 | 0.52 | **0.55** | 0.52 | 0.30 | 0.19 | 0.16 | 0.11 | 0.08 | 0.06 |
| 257.01 | 0.25 | 0.28 | 0.29 | 0.29 | **0.30** | 0.29 | 0.16 | 0.10 | 0.09 | 0.06 | 0.05 | 0.03 |
| 258.01 | 1.11 | 1.25 | 1.35 | 1.32 | **1.39** | 1.32 | 0.74 | 0.47 | 0.41 | 0.27 | 0.21 | 0.15 |
| 258.02 | 1.81 | 2.17 | 2.43 | 2.44 | **2.56** | 2.35 | 1.41 | 0.89 | 0.78 | 0.50 | 0.40 | 0.28 |
| 259.01 | 0.54 | **0.59** | 0.54 | 0.55 | 0.58 | 0.56 | 0.32 | 0.21 | 0.18 | 0.12 | 0.10 | 0.07 |
| 259.02 | 1.14 | 1.24 | 1.19 | 1.20 | **1.28** | 1.20 | 0.70 | 0.45 | 0.39 | 0.26 | 0.21 | 0.15 |
| 259.03 | 1.62 | 1.77 | 1.70 | 1.72 | **1.83** | 1.72 | 0.99 | 0.64 | 0.56 | 0.37 | 0.29 | 0.21 |
| 259.04 | 2.97 | 3.21 | 3.07 | 3.09 | **3.29** | 3.10 | 1.79 | 1.17 | 1.02 | 0.67 | 0.53 | 0.38 |
| 259.05 | 3.61 | 3.98 | 3.79 | 3.83 | **4.09** | 3.85 | 2.23 | 1.45 | 1.27 | 0.83 | 0.66 | 0.47 |
| 259.06 | 4.61 | 5.12 | 4.84 | 4.91 | **5.20** | 4.97 | 2.84 | 1.87 | 1.64 | 1.08 | 0.85 | 0.61 |
| 259.07 | 5.62 | **6.57** | 5.75 | 5.91 | 5.90 | 6.17 | 3.97 | 2.61 | 2.28 | 1.50 | 1.19 | 0.85 |
| 259.08 | 6.24 | **7.43** | 6.98 | 6.54 | 6.32 | 6.83 | 4.72 | 3.10 | 2.71 | 1.77 | 1.41 | 1.01 |
| 259.09 | 16.42 | **20.59** | 19.67 | 18.84 | 19.75 | 20.17 | 13.84 | 8.96 | 7.81 | 5.08 | 4.01 | 2.84 |
| 259.10 | 16.89 | **21.21** | 20.39 | 19.53 | 20.48 | 20.70 | 14.23 | 9.20 | 8.02 | 5.22 | 4.11 | 2.92 |
| 260.01 | 0.34 | 0.37 | 0.36 | 0.36 | **0.39** | 0.37 | 0.20 | 0.13 | 0.11 | 0.07 | 0.06 | 0.04 |
| 261.01 | 0.47 | 0.50 | 0.47 | 0.47 | **0.50** | 0.48 | 0.27 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 262.01 | 0.49 | 0.54 | 0.53 | 0.53 | **0.57** | 0.54 | 0.30 | 0.19 | 0.17 | 0.11 | 0.09 | 0.06 |
| 262.02 | 0.91 | 1.02 | 0.99 | 0.99 | **1.05** | 1.00 | 0.57 | 0.36 | 0.31 | 0.21 | 0.16 | 0.12 |
| 263.01 | 0.53 | 0.58 | 0.56 | 0.57 | **0.61** | 0.58 | 0.33 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |
| 264.01 | 0.28 | 0.31 | 0.31 | 0.31 | **0.33** | 0.32 | 0.17 | 0.11 | 0.09 | 0.06 | 0.05 | 0.03 |
| 265.01 | 0.38 | 0.42 | 0.41 | 0.42 | **0.45** | 0.42 | 0.24 | 0.15 | 0.13 | 0.09 | 0.07 | 0.05 |
| 265.02 | 0.85 | 1.02 | 1.12 | 1.22 | **1.31** | 1.19 | 0.77 | 0.49 | 0.42 | 0.28 | 0.22 | 0.15 |
| 265.03 | 1.33 | 1.86 | 1.97 | 2.16 | **2.32** | 2.12 | 1.40 | 0.89 | 0.77 | 0.50 | 0.39 | 0.28 |
| 265.04 | 7.71 | 9.40 | 9.25 | 9.43 | **9.95** | 9.81 | 6.54 | 4.21 | 3.67 | 2.38 | 1.88 | 1.33 |
| 266.01 | 0.45 | 0.51 | 0.55 | 0.59 | **0.64** | 0.58 | 0.36 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 266.02 | 0.91 | 1.02 | 1.07 | 1.13 | **1.22** | 1.12 | 0.70 | 0.45 | 0.39 | 0.25 | 0.20 | 0.14 |
| 266.03 | 1.13 | 1.26 | 1.28 | 1.33 | **1.44** | 1.33 | 0.83 | 0.53 | 0.46 | 0.30 | 0.24 | 0.17 |
| 266.04 | 4.14 | 4.68 | 4.77 | 4.92 | **5.36** | 5.11 | 3.32 | 2.14 | 1.87 | 1.22 | 0.96 | 0.68 |
| 266.05 | 4.99 | 5.71 | 5.61 | 5.83 | **6.20** | 6.10 | 4.00 | 2.58 | 2.25 | 1.47 | 1.16 | 0.82 |
| 267.01 | 0.44 | 0.50 | 0.50 | 0.50 | **0.53** | 0.51 | 0.28 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 268.01 | 0.79 | 0.86 | 0.85 | 0.86 | **0.92** | 0.87 | 0.50 | 0.32 | 0.28 | 0.18 | 0.14 | 0.10 |
| 268.02 | 2.00 | 2.24 | 2.31 | 2.43 | **2.63** | 2.41 | 1.51 | 0.97 | 0.84 | 0.55 | 0.43 | 0.31 |
| 269.01 | 0.30 | 0.37 | 0.40 | 0.44 | **0.48** | 0.43 | 0.28 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 270.01 | 0.32 | 0.43 | 0.45 | 0.50 | **0.53** | 0.47 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 271.01 | 0.21 | 0.27 | 0.29 | 0.31 | **0.32** | 0.29 | 0.19 | 0.12 | 0.10 | 0.07 | 0.05 | 0.04 |
| 272.01 | 0.46 | 0.60 | 0.64 | 0.72 | **0.79** | 0.70 | 0.48 | 0.30 | 0.27 | 0.17 | 0.13 | 0.10 |
| 272.02 | 1.08 | 1.29 | 1.44 | 1.51 | **1.62** | 1.47 | 0.94 | 0.60 | 0.52 | 0.34 | 0.27 | 0.19 |
| 272.03 | 1.86 | 2.13 | 2.41 | 2.46 | **2.61** | 2.40 | 1.47 | 0.93 | 0.81 | 0.53 | 0.41 | 0.29 |
| 273.01 | 0.52 | 0.59 | 0.68 | 0.67 | **0.70** | 0.65 | 0.38 | 0.24 | 0.21 | 0.13 | 0.11 | 0.08 |
| 274.01 | 0.20 | 0.25 | 0.27 | 0.31 | **0.37** | 0.34 | 0.27 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |

| Subcatchment ID | Peak Discharge ($m^3/s$) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 min | 20 min | 30 min | 60 min | 90 min | 120 min | 180 min | 360 min | 720 min | 1440 min | 2880 min | 4320 min |
| 274.02 | 1.10 | 1.24 | 1.28 | 1.32 | **1.43** | 1.31 | 0.83 | 0.57 | 0.50 | 0.33 | 0.26 | 0.18 |
| 274.03 | 2.67 | 2.96 | 2.97 | 3.04 | **3.24** | 3.01 | 1.82 | 1.21 | 1.05 | 0.69 | 0.55 | 0.39 |
| 274.04 | 3.49 | 3.87 | 3.84 | 3.90 | **4.17** | 3.91 | 2.33 | 1.54 | 1.34 | 0.88 | 0.70 | 0.50 |
| 274.05 | 4.17 | 5.02 | 5.17 | 5.26 | **5.59** | 5.25 | 3.07 | 2.01 | 1.75 | 1.15 | 0.91 | 0.65 |
| 275.01 | 0.52 | 0.56 | 0.54 | 0.55 | **0.58** | 0.56 | 0.31 | 0.20 | 0.17 | 0.11 | 0.09 | 0.06 |
| 276.01 | 0.35 | 0.40 | 0.39 | 0.40 | **0.42** | 0.40 | 0.22 | 0.14 | 0.12 | 0.08 | 0.06 | 0.04 |
| 277.01 | 0.44 | 0.50 | 0.53 | 0.52 | **0.55** | 0.52 | 0.29 | 0.18 | 0.16 | 0.10 | 0.08 | 0.06 |
| 278.01 | 0.27 | 0.31 | 0.30 | 0.31 | **0.33** | 0.31 | 0.17 | 0.11 | 0.09 | 0.06 | 0.05 | 0.03 |
| 278.02 | 3.19 | 4.23 | 4.60 | 4.61 | **4.83** | 4.38 | 2.72 | 1.71 | 1.49 | 0.96 | 0.75 | 0.53 |
| 279.01 | 0.46 | 0.55 | 0.61 | 0.63 | **0.66** | 0.60 | 0.37 | 0.23 | 0.20 | 0.13 | 0.10 | 0.07 |
| 279.02 | 3.26 | 3.95 | 4.48 | 4.40 | **4.61** | 4.25 | 2.52 | 1.59 | 1.38 | 0.89 | 0.70 | 0.49 |
| 280.01 | 0.42 | 0.49 | 0.54 | 0.56 | **0.59** | 0.55 | 0.33 | 0.21 | 0.18 | 0.12 | 0.09 | 0.07 |

# Appendix E
## Design Rainfall

| Storm Duration | ARR2019 Design Rainfall Depth (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 50% AEP | 20% AEP | 10% AEP | 5% AEP | 2% AEP | 1% AEP | 0.5% AEP | 0.2% AEP |
| 1 min | 2.29 | 3.13 | 3.74 | 4.36 | 5.22 | 5.91 | 6.40 | 7.19 |
| 2 min | 3.70 | 5.00 | 5.94 | 6.91 | 8.30 | 9.43 | 10.3 | 11.7 |
| 3 min | 5.15 | 6.99 | 8.32 | 9.68 | 11.6 | 13.2 | 14.4 | 16.3 |
| 4 min | 6.50 | 8.85 | 10.5 | 12.3 | 14.7 | 16.7 | 18.1 | 20.5 |
| 5 min | 7.71 | 10.5 | 12.6 | 14.6 | 17.5 | 19.9 | 21.6 | 24.2 |
| 10 min | 12.3 | 16.9 | 20.1 | 23.5 | 28.1 | 31.8 | 34.4 | 38.5 |
| 15 min | 15.3 | 21.0 | 25.1 | 29.3 | 35.1 | 39.7 | 42.8 | 48.1 |
| 20 min | 17.5 | 24.0 | 28.7 | 33.5 | 40.1 | 45.3 | 49.0 | 55.0 |
| 25 min | 19.2 | 26.3 | 31.5 | 36.7 | 43.9 | 49.7 | 53.8 | 60.5 |
| 30 min | 20.6 | 28.3 | 33.8 | 39.3 | 47.1 | 53.4 | 57.8 | 65.0 |
| 45 min | 23.9 | 32.7 | 38.9 | 45.4 | 54.3 | 61.5 | 66.8 | 75.1 |
| 1 hour | 26.4 | 36.0 | 42.9 | 49.9 | 59.7 | 67.7 | 73.5 | 82.7 |
| 1.5 hour | 30.2 | 41.2 | 49.1 | 57.1 | 68.3 | 77.3 | 83.9 | 94.5 |
| 2 hour | 33.4 | 45.6 | 54.2 | 63.1 | 75.5 | 85.4 | 92.6 | 104 |
| 3 hour | 38.7 | 53.0 | 63.2 | 73.5 | 87.8 | 99.3 | 107 | 121 |
| 4.5 hour | 45.4 | 62.6 | 74.7 | 87.1 | 104 | 117 | 126 | 142 |
| 6 hour | 51.2 | 71.0 | 85.0 | 99.2 | 118 | 133 | 143 | 161 |
| 9 hour | 61.2 | 85.7 | 103 | 120 | 144 | 162 | 174 | 194 |
| 12 hour | 69.6 | 98.3 | 119 | 139 | 166 | 187 | 200 | 224 |
| 18 hour | 83.5 | 119 | 145 | 170 | 203 | 229 | 246 | 276 |
| 24 hour | 94.6 | 136 | 166 | 195 | 234 | 263 | 285 | 320 |
| 30 hour | 104 | 150 | 183 | 216 | 259 | 292 | 323 | 367 |
| 36 hour | 111 | 161 | 197 | 234 | 280 | 316 | 353 | 403 |
| 48 hour | 123 | 180 | 220 | 261 | 313 | 353 | 397 | 455 |
| 72 hour | 138 | 203 | 249 | 295 | 354 | 400 | 448 | 512 |
| 96 hour | 148 | 216 | 265 | 314 | 377 | 424 | 473 | 538 |
| 120 hour | 154 | 225 | 275 | 325 | 388 | 437 | 485 | 551 |
| 144 hour | 158 | 230 | 281 | 331 | 394 | 441 | 491 | 555 |
| 168 hour | 161 | 234 | 284 | 335 | 396 | 442 | 493 | 556 |

| Storm Duration | ARR1987 Design Rainfall Depth (mm) | | | | | |
|---|---|---|---|---|---|---|
| | 50% AEP | 20% AEP | 10% AEP | 5% AEP | 2% AEP | 1% AEP |
| 5 min | 8.8 | 11.2 | 12.6 | 14.4 | 16.8 | 18.6 |
| 10 min | 13.5 | 17.2 | 19.3 | 22.0 | 25.7 | 28.5 |
| 20 min | 19.8 | 25.1 | 28.2 | 32.3 | 37.7 | 41.7 |
| 30 min | 24.1 | 30.7 | 34.4 | 39.5 | 45.9 | 51.0 |
| 1 hour | 32.5 | 41.4 | 46.5 | 53.3 | 62.2 | 68.9 |
| 1.50 hour | 37.6 | 48.4 | 54.1 | 62.2 | 72.6 | 80.5 |
| 2 hours | 41.8 | 53.6 | 60.4 | 69.4 | 81.2 | 90.0 |
| 3 hours | 48.0 | 61.8 | 69.6 | 80.1 | 93.9 | 104.1 |
| 6 hours | 60.6 | 78.0 | 88.2 | 102.0 | 119.4 | 133.2 |
| 12 hours | 76.2 | 99.4 | 112.9 | 130.8 | 153.6 | 171.6 |
| 24 hours | 97.2 | 127.9 | 146.2 | 169.9 | 201.4 | 225.4 |
| 48 hours | 121.4 | 162.2 | 186.7 | 217.9 | 260.2 | 291.8 |
| 72 hours | 133.9 | 180.7 | 208.1 | 244.1 | 292.3 | 329.0 |

# GSDM CALCULATION SHEET

## LOCATION INFORMATION

Catchment: Campbelltown Southern Catchments — Area: 10.20 km²

State: New South Wales — Duration Limit: 6.0 hrs

Latitude: 34.1005⁰S — Longitude: 150.8099⁰E

Portion of Area Considered:

Smooth, **S** = 0.00 (0.0 - 1.0) — Rough, **R** = 1.00 (0.0 - 1.0)

## ELEVATION ADJUSTMENT FACTOR (EAF)

Mean Elevation: 137 m

Adjustment for Elevation (-0.05 per 300m above 1500m): 0.00

**EAF** = **1.00** (0.85 – 1.00)

## MOISTURE ADJUSTMENT FACTOR (MAF)

**MAF** = **0.69** (0.40-1.00)

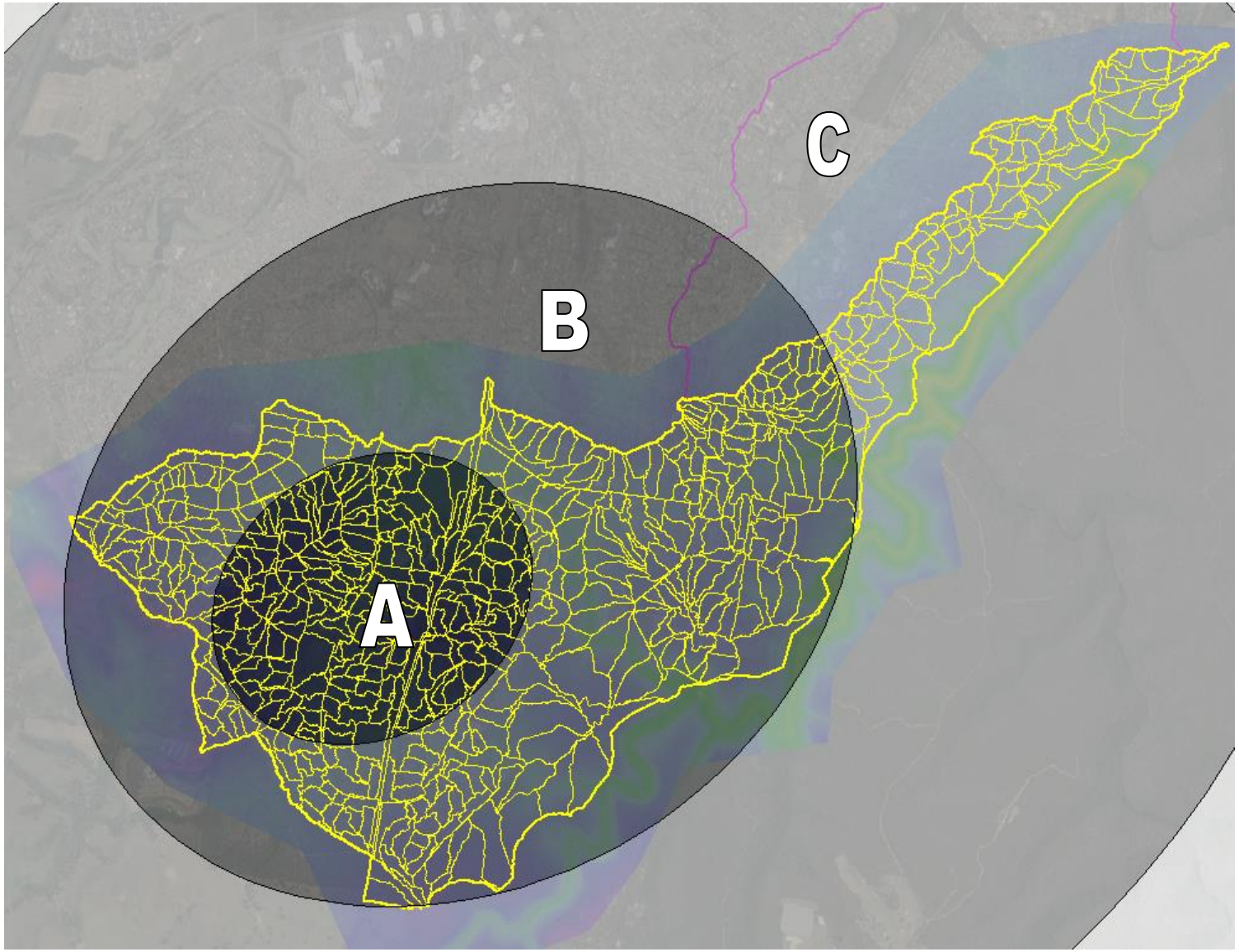
## PMP VALUES (mm)

| Duration (hours) | Initial Depth -Smooth ($D_S$) | Initial Depth -Rough ($D_R$) | PMP Estimate = ($D_S$xS + $D_R$xR) x MAF x EAF | Rounded PMP Estimate (nearest 10 mm) |
|---|---|---|---|---|
| 0.25 | 212 | 212 | 146 | 150 |
| 0.50 | 312 | 312 | 215 | 220 |
| 0.75 | 392 | 392 | 270 | 270 |
| 1.00 | 463 | 463 | 319 | 320 |
| 1.50 | 528 | 591 | 409 | 410 |
| 2.00 | 591 | 693 | 480 | 480 |
| 2.50 | 629 | 763 | 528 | 530 |
| 3.00 | 661 | 835 | 579 | 580 |
| 4.00 | 728 | 957 | 663 | 660 |
| 5.00 | 783 | 1052 | 729 | 730 |
| 6.00 | 830 | 1118 | 775 | 780 |

Prepared By: D Fedczyna — Date: 25/07/2022

Checked By: D Tetley — Date: 25/07/2022

## GSDM SPATIAL DISTRIBUTION



# GSDM SPATIAL DISTRIBUTION

| DURATION = 0.25 Hours | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ellipse** | **Catchment Area Between Ellipse ($km^2$)** | **Catchment Area Enclosed by Ellipse ($km^2$)** | **Initial Mean Rainfall Depth (mm)** | **Adjusted Mean Rainfall Depth (mm)** | **Rainfall Volume enclosed by Ellipse ($mm.km^2$)** | **Rainfall Volume between Ellipses ($mm.km^2$)** | **Mean Rainfall Depth between ellipses (mm)** |
| A | 2.60 | 2.60 | 232 | 160 | 416 | 416 | 160 |
| B | 6.19 | 8.79 | 214 | 148 | 1299 | 884 | 143 |
| C | 1.61 | 10.40 | 211 | 146 | 1517 | 218 | 136 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| DURATION = 0.50 Hours | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ellipse** | **Catchment Area Between Ellipse ($km^2$)** | **Catchment Area Enclosed by Ellipse ($km^2$)** | **Initial Mean Rainfall Depth (mm)** | **Adjusted Mean Rainfall Depth (mm)** | **Rainfall Volume enclosed by Ellipse ($mm.km^2$)** | **Rainfall Volume between Ellipses ($mm.km^2$)** | **Mean Rainfall Depth between ellipses (mm)** |
| A | 2.60 | 2.60 | 336 | 232 | 602 | 602 | 232 |
| B | 6.19 | 8.79 | 314 | 217 | 1907 | 1305 | 211 |
| C | 1.61 | 10.40 | 311 | 215 | 2233 | 326 | 203 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

# GSDM SPATIAL DISTRIBUTION (continued)

**DURATION = 0.75 Hours**

| Ellipse | Catchment Area Between Ellipse ($km^2$) | Catchment Area Enclosed by Ellipse ($km^2$) | Initial Mean Rainfall Depth (mm) | Adjusted Mean Rainfall Depth (mm) | Rainfall Volume enclosed by Ellipse ($mm.km^2$) | Rainfall Volume between Ellipses ($mm.km^2$) | Mean Rainfall Depth between ellipses (mm) |
|---|---|---|---|---|---|---|---|
| A | 2.60 | 2.60 | 425 | 293 | 761 | 761 | 293 |
| B | 6.19 | 8.79 | 399 | 275 | 2419 | 1658 | 268 |
| C | 1.61 | 10.40 | 391 | 270 | 2808 | 389 | 242 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

**DURATION = 1.0 Hours**

| Ellipse | Catchment Area Between Ellipse ($km^2$) | Catchment Area Enclosed by Ellipse ($km^2$) | Initial Mean Rainfall Depth (mm) | Adjusted Mean Rainfall Depth (mm) | Rainfall Volume enclosed by Ellipse ($mm.km^2$) | Rainfall Volume between Ellipses ($mm.km^2$) | Mean Rainfall Depth between ellipses (mm) |
|---|---|---|---|---|---|---|---|
| A | 2.60 | 2.60 | 493 | 340 | 883 | 883 | 340 |
| B | 6.19 | 8.79 | 466 | 321 | 2824 | 1941 | 313 |
| C | 1.61 | 10.40 | 462 | 319 | 3315 | 491 | 305 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

# GSDM SPATIAL DISTRIBUTION (continued)

| DURATION = 1.5 Hours | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ellipse** | **Catchment Area Between Ellipse ($km^2$)** | **Catchment Area Enclosed by Ellipse ($km^2$)** | **Initial Mean Rainfall Depth (mm)** | **Adjusted Mean Rainfall Depth (mm)** | **Rainfall Volume enclosed by Ellipse ($mm.km^2$)** | **Rainfall Volume between Ellipses ($mm.km^2$)** | **Mean Rainfall Depth between ellipses (mm)** |
| A | 2.60 | 2.60 | 637 | 440 | 1142 | 1142 | 440 |
| B | 6.19 | 8.79 | 598 | 413 | 3628 | 2486 | 401 |
| C | 1.61 | 10.40 | 592 | 409 | 4248 | 621 | 386 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| DURATION = 2.0 Hours | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ellipse** | **Catchment Area Between Ellipse ($km^2$)** | **Catchment Area Enclosed by Ellipse ($km^2$)** | **Initial Mean Rainfall Depth (mm)** | **Adjusted Mean Rainfall Depth (mm)** | **Rainfall Volume enclosed by Ellipse ($mm.km^2$)** | **Rainfall Volume between Ellipses ($mm.km^2$)** | **Mean Rainfall Depth between ellipses (mm)** |
| A | 2.60 | 2.60 | 746 | 515 | 1337 | 1337 | 515 |
| B | 6.19 | 8.79 | 701 | 484 | 4252 | 2915 | 471 |
| C | 1.61 | 10.40 | 695 | 479 | 4983 | 731 | 455 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

# GSDM SPATIAL DISTRIBUTION (continued)

**DURATION = 2.5 Hours**

| Ellipse | Catchment Area Between Ellipse ($km^2$) | Catchment Area Enclosed by Ellipse ($km^2$) | Initial Mean Rainfall Depth (mm) | Adjusted Mean Rainfall Depth (mm) | Rainfall Volume enclosed by Ellipse ($mm.km^2$) | Rainfall Volume between Ellipses ($mm.km^2$) | Mean Rainfall Depth between ellipses (mm) |
|---|---|---|---|---|---|---|---|
| A | 2.60 | 2.60 | 824 | 569 | 1476 | 1476 | 569 |
| B | 6.19 | 8.79 | 773 | 533 | 4686 | 3211 | 518 |
| C | 1.61 | 10.40 | 765 | 528 | 5490 | 803 | 499 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

**DURATION = 3.0 Hours**

| Ellipse | Catchment Area Between Ellipse ($km^2$) | Catchment Area Enclosed by Ellipse ($km^2$) | Initial Mean Rainfall Depth (mm) | Adjusted Mean Rainfall Depth (mm) | Rainfall Volume enclosed by Ellipse ($mm.km^2$) | Rainfall Volume between Ellipses ($mm.km^2$) | Mean Rainfall Depth between ellipses (mm) |
|---|---|---|---|---|---|---|---|
| A | 2.60 | 2.60 | 905 | 624 | 1621 | 1621 | 624 |
| B | 6.19 | 8.79 | 847 | 584 | 5135 | 3515 | 567 |
| C | 1.61 | 10.40 | 838 | 578 | 6010 | 875 | 544 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

# GSDM SPATIAL DISTRIBUTION (continued)

| DURATION = 4.0 Hours | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ellipse** | **Catchment Area Between Ellipse ($km^2$)** | **Catchment Area Enclosed by Ellipse ($km^2$)** | **Initial Mean Rainfall Depth (mm)** | **Adjusted Mean Rainfall Depth (mm)** | **Rainfall Volume enclosed by Ellipse ($mm.km^2$)** | **Rainfall Volume between Ellipses ($mm.km^2$)** | **Mean Rainfall Depth between ellipses (mm)** |
| A | 2.60 | 2.60 | 1035 | 714 | 1854 | 1854 | 714 |
| B | 6.19 | 8.79 | 971 | 670 | 5889 | 4035 | 651 |
| C | 1.61 | 10.40 | 960 | 663 | 6890 | 1001 | 622 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| DURATION = 5.0 Hours | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ellipse** | **Catchment Area Between Ellipse ($km^2$)** | **Catchment Area Enclosed by Ellipse ($km^2$)** | **Initial Mean Rainfall Depth (mm)** | **Adjusted Mean Rainfall Depth (mm)** | **Rainfall Volume enclosed by Ellipse ($mm.km^2$)** | **Rainfall Volume between Ellipses ($mm.km^2$)** | **Mean Rainfall Depth between ellipses (mm)** |
| A | 2.60 | 2.60 | 1141 | 787 | 2044 | 2044 | 787 |
| B | 6.19 | 8.79 | 1068 | 737 | 6476 | 4433 | 716 |
| C | 1.61 | 10.40 | 1056 | 729 | 7576 | 1099 | 684 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

# GSDM SPATIAL DISTRIBUTION (continued)

| DURATION = 6.0 Hours | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ellipse** | **Catchment Area Between Ellipse ($km^2$)** | **Catchment Area Enclosed by Ellipse ($km^2$)** | **Initial Mean Rainfall Depth (mm)** | **Adjusted Mean Rainfall Depth (mm)** | **Rainfall Volume enclosed by Ellipse ($mm.km^2$)** | **Rainfall Volume between Ellipses ($mm.km^2$)** | **Mean Rainfall Depth between ellipses (mm)** |
| A | 2.60 | 2.60 | 1206 | 832 | 2161 | 2161 | 832 |
| B | 6.19 | 8.79 | 1134 | 783 | 6880 | 4719 | 762 |
| C | 1.61 | 10.40 | 1122 | 774 | 8052 | 1172 | 729 |
| D | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| E | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| G | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| H | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| J | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

# Appendix F

## XP-RAFTS Model Outputs (ARR2019)

# ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-1.01 | 10 min | 4386 | 0.43 | 0.42 | 0.03 | 0.42 | 0.42 | 0.42 | 0.39 | 0.37 | 0.21 | 0.42 | 0.00 | 0.1% |
| SC-1.02 | 10 min | 4386 | 0.96 | 0.93 | 0.08 | 0.95 | 0.91 | 0.93 | 0.85 | 0.80 | 0.46 | 0.93 | -0.02 | -1.9% |
| SC-1.03 | 10 min | 4386 | 1.15 | 1.12 | 0.09 | 1.14 | 1.10 | 1.12 | 1.02 | 0.97 | 0.55 | 1.12 | -0.02 | -2.2% |
| SC-1.04 | 10 min | 4388 | 3.00 | 2.93 | 0.25 | 2.94 | 2.94 | 2.84 | 2.74 | 2.61 | 1.50 | 2.94 | 0.00 | 0.0% |
| SC-1.05 | 10 min | 4386 | 3.26 | 3.19 | 0.22 | 3.19 | 3.19 | 3.13 | 2.97 | 2.82 | 1.63 | 3.19 | 0.00 | 0.1% |
| SC-1.06 | 10 min | 4386 | 3.78 | 3.70 | 0.22 | 3.70 | 3.70 | 3.61 | 3.46 | 3.29 | 1.87 | 3.70 | 0.00 | 0.1% |
| SC-1.07 | 10 min | 4386 | 3.85 | 3.78 | 0.20 | 3.80 | 3.75 | 3.71 | 3.52 | 3.34 | 1.91 | 3.75 | -0.05 | -1.2% |
| SC-1.08 | 1.50 hour | 4608 | 2.86 | 2.93 | 0.35 | 2.93 | 1.00 | 1.10 | 1.12 | 2.48 | 2.92 | 2.92 | -0.01 | -0.3% |
| SC-1.09 | 2 hours | 4643 | 3.06 | 2.99 | 0.38 | 3.19 | 2.47 | 2.15 | 2.41 | 2.61 | 3.19 | 3.19 | 0.00 | 0.0% |
| SC-1.10 | 2 hours | 4643 | 3.10 | 3.04 | 0.38 | 3.24 | 2.63 | 2.33 | 2.63 | 2.62 | 3.24 | 3.24 | 0.00 | -0.1% |
| SC-1.11 | 10 min | 4384 | 6.96 | 6.81 | 0.40 | 6.86 | 7.06 | 6.39 | 6.88 | 6.57 | 4.42 | 7.06 | 0.20 | 3.0% |
| SC-1.12 | 10 min | 4384 | 8.57 | 8.43 | 0.42 | 8.52 | 8.69 | 7.89 | 8.50 | 8.15 | 4.95 | 8.69 | 0.17 | 2.0% |
| SC-1.13 | 10 min | 4391 | 9.56 | 9.50 | 0.23 | 9.54 | 9.55 | 9.00 | 9.54 | 9.17 | 5.39 | 9.55 | 0.01 | 0.1% |
| SC-1.14 | 10 min | 4384 | 11.15 | 11.04 | 0.23 | 11.06 | 11.23 | 10.63 | 11.36 | 10.99 | 6.39 | 11.36 | 0.30 | 2.7% |
| SC-1.15 | 10 min | 4389 | 12.03 | 11.89 | 0.24 | 11.89 | 12.06 | 11.58 | 12.43 | 11.96 | 6.93 | 12.43 | 0.54 | 4.6% |
| SC-1.16 | 20 min | 4449 | 13.45 | 13.32 | 0.95 | 13.33 | 12.55 | 12.81 | 14.00 | 13.38 | 7.99 | 14.00 | 0.67 | 5.0% |
| SC-1.17 | 20 min | 4449 | 13.64 | 13.51 | 0.91 | 13.63 | 12.58 | 12.94 | 14.18 | 13.55 | 8.16 | 14.18 | 0.55 | 4.0% |
| SC-1.18 | 45 min | 4547 | 12.07 | 12.19 | 0.76 | 12.19 | 10.48 | 11.30 | 12.37 | 12.19 | 8.31 | 12.37 | 0.18 | 1.5% |
| SC-1.19 | 45 min | 4553 | 9.93 | 9.81 | 0.27 | 9.81 | 7.34 | 8.73 | 8.88 | 9.79 | 9.28 | 9.79 | -0.02 | -0.2% |
| SC-1.20 | 45 min | 4547 | 9.86 | 9.82 | 0.22 | 9.82 | 6.96 | 8.52 | 8.62 | 9.82 | 9.34 | 9.82 | 0.00 | 0.0% |
| SC-1.21 | 45 min | 4547 | 9.89 | 9.84 | 0.20 | 9.84 | 6.97 | 8.53 | 8.63 | 9.84 | 9.44 | 9.84 | 0.00 | 0.0% |
| SC-1.22 | 1.50 hour | 4603 | 10.24 | 10.30 | 0.26 | 10.30 | 6.98 | 8.55 | 8.65 | 9.89 | 9.88 | 9.89 | -0.41 | -4.0% |
| SC-1.23 | 1 hour | 4578 | 13.33 | 13.47 | 1.34 | 13.69 | 9.74 | 9.96 | 10.00 | 11.21 | 11.39 | 11.39 | -2.30 | -16.8% |
| SC-1.24 | 1 hour | 4578 | 17.35 | 17.23 | 2.33 | 18.02 | 15.86 | 14.93 | 15.85 | 15.43 | 14.22 | 15.86 | -2.16 | -12.0% |
| SC-1.25 | 1 hour | 4578 | 17.61 | 17.53 | 2.42 | 18.17 | 15.91 | 15.26 | 16.32 | 15.80 | 14.53 | 16.32 | -1.85 | -10.2% |
| SC-1.26 | 45 min | 4549 | 18.69 | 19.25 | 1.79 | 19.25 | 16.05 | 16.36 | 17.61 | 16.91 | 15.52 | 17.61 | -1.64 | -8.5% |
| SC-1.27 | 45 min | 4549 | 19.02 | 19.67 | 1.81 | 19.67 | 16.12 | 16.65 | 17.85 | 17.22 | 15.78 | 17.85 | -1.82 | -9.3% |
| SC-1.28 | 45 min | 4551 | 24.44 | 25.24 | 2.27 | 25.24 | 18.66 | 21.54 | 23.47 | 22.51 | 19.71 | 23.47 | -1.77 | -7.0% |
| SC-1.29 | 45 min | 4551 | 26.09 | 26.90 | 2.27 | 26.90 | 18.89 | 23.20 | 25.06 | 24.19 | 21.16 | 25.06 | -1.84 | -6.9% |
| SC-1.30 | 45 min | 4553 | 26.62 | 27.49 | 2.24 | 27.49 | 19.05 | 23.63 | 25.48 | 24.78 | 21.61 | 25.48 | -2.01 | -7.3% |
| SC-1.31 | 45 min | 4553 | 26.98 | 27.75 | 2.21 | 27.75 | 19.16 | 23.95 | 25.75 | 25.21 | 21.96 | 25.75 | -2.00 | -7.2% |
| SC-1.32 | 45 min | 4553 | 27.53 | 28.08 | 2.14 | 28.08 | 19.27 | 24.35 | 26.08 | 25.86 | 22.47 | 26.08 | -2.00 | -7.1% |
| SC-1.33 | 45 min | 4553 | 28.59 | 28.54 | 1.90 | 28.54 | 19.45 | 24.92 | 26.53 | 27.32 | 23.64 | 27.32 | -1.22 | -4.3% |
| SC-1.34 | 45 min | 4553 | 28.77 | 28.58 | 1.81 | 28.58 | 19.48 | 24.98 | 26.58 | 27.71 | 23.95 | 27.71 | -0.87 | -3.0% |
| SC-1.35 | 45 min | 4553 | 29.00 | 28.64 | 1.72 | 28.64 | 19.52 | 25.09 | 26.64 | 28.11 | 24.19 | 28.11 | -0.53 | -1.8% |
| SC-1.36 | 45 min | 4547 | 30.29 | 30.48 | 1.34 | 30.48 | 19.68 | 25.55 | 26.99 | 30.48 | 25.99 | 30.48 | 0.00 | 0.0% |
| SC-10.01 | 10 min | 4386 | 0.46 | 0.46 | 0.04 | 0.47 | 0.43 | 0.46 | 0.39 | 0.37 | 0.19 | 0.46 | -0.01 | -2.6% |
| SC-100.01 | 10 min | 4386 | 0.55 | 0.54 | 0.05 | 0.56 | 0.50 | 0.55 | 0.45 | 0.43 | 0.22 | 0.55 | -0.01 | -2.3% |
| SC-100.02 | 10 min | 4386 | 0.96 | 0.93 | 0.08 | 0.95 | 0.90 | 0.93 | 0.82 | 0.77 | 0.40 | 0.93 | -0.02 | -1.7% |
| SC-101.01 | 10 min | 4387 | 0.57 | 0.56 | 0.05 | 0.57 | 0.52 | 0.57 | 0.49 | 0.47 | 0.25 | 0.57 | 0.00 | 0.1% |
| SC-101.02 | 10 min | 4386 | 1.00 | 0.98 | 0.07 | 0.99 | 0.96 | 0.98 | 0.89 | 0.85 | 0.45 | 0.98 | -0.01 | -1.3% |
| SC-102.01 | 10 min | 4386 | 0.45 | 0.44 | 0.04 | 0.45 | 0.42 | 0.44 | 0.38 | 0.36 | 0.19 | 0.44 | -0.01 | -1.8% |
| SC-102.02 | 10 min | 4388 | 1.71 | 1.67 | 0.13 | 1.68 | 1.68 | 1.64 | 1.55 | 1.47 | 0.76 | 1.68 | 0.00 | -0.1% |
| SC-103.01 | 10 min | 4386 | 0.30 | 0.30 | 0.02 | 0.31 | 0.28 | 0.30 | 0.26 | 0.24 | 0.12 | 0.30 | -0.01 | -2.6% |
| SC-103.02 | 10 min | 4386 | 1.05 | 1.03 | 0.08 | 1.03 | 1.02 | 1.01 | 0.94 | 0.90 | 0.46 | 1.02 | -0.01 | -0.8% |
| SC-104.01 | 10 min | 4386 | 0.27 | 0.27 | 0.02 | 0.28 | 0.25 | 0.27 | 0.23 | 0.22 | 0.11 | 0.27 | -0.01 | -3.0% |
| SC-105.01 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.29 | 0.27 | 0.29 | 0.25 | 0.24 | 0.12 | 0.29 | 0.00 | -0.4% |
| SC-105.02 | 10 min | 4388 | 0.68 | 0.67 | 0.05 | 0.67 | 0.67 | 0.64 | 0.62 | 0.59 | 0.30 | 0.67 | 0.00 | -0.1% |
| SC-105.03 | 10 min | 4388 | 1.58 | 1.57 | 0.12 | 1.57 | 1.57 | 1.48 | 1.45 | 1.38 | 0.71 | 1.57 | 0.00 | 0.3% |
| SC-105.04 | 10 min | 4388 | 2.14 | 2.09 | 0.17 | 2.10 | 2.10 | 2.03 | 1.97 | 1.87 | 0.97 | 2.10 | 0.00 | -0.2% |
| SC-105.05 | 10 min | 4388 | 2.53 | 2.49 | 0.20 | 2.49 | 2.49 | 2.41 | 2.37 | 2.26 | 1.20 | 2.49 | 0.00 | 0.1% |
| SC-105.06 | 10 min | 4388 | 2.61 | 2.57 | 0.21 | 2.57 | 2.57 | 2.47 | 2.52 | 2.40 | 1.34 | 2.57 | 0.00 | 0.1% |
| SC-105.07 | 10 min | 4386 | 3.92 | 3.84 | 0.23 | 3.88 | 3.79 | 3.80 | 3.66 | 3.51 | 2.05 | 3.80 | -0.08 | -2.1% |
| SC-105.08 | 10 min | 4387 | 4.48 | 4.45 | 0.19 | 4.45 | 4.23 | 4.43 | 4.16 | 3.97 | 2.35 | 4.43 | -0.02 | -0.4% |
| SC-105.09 | 10 min | 4385 | 6.16 | 6.16 | 0.04 | 6.16 | 6.11 | 5.97 | 5.69 | 5.47 | 3.03 | 6.11 | -0.05 | -0.7% |
| SC-106.01 | 10 min | 4387 | 0.21 | 0.21 | 0.02 | 0.22 | 0.19 | 0.22 | 0.18 | 0.17 | 0.09 | 0.22 | 0.00 | -2.0% |
| SC-107.01 | 10 min | 4386 | 0.37 | 0.37 | 0.03 | 0.38 | 0.34 | 0.37 | 0.32 | 0.30 | 0.15 | 0.37 | -0.01 | -2.8% |
| SC-108.01 | 10 min | 4386 | 0.27 | 0.26 | 0.02 | 0.27 | 0.25 | 0.27 | 0.23 | 0.21 | 0.11 | 0.27 | 0.00 | -1.6% |
| SC-109.01 | 10 min | 4386 | 0.35 | 0.34 | 0.03 | 0.35 | 0.32 | 0.34 | 0.29 | 0.28 | 0.15 | 0.34 | -0.01 | -2.9% |
| SC-11.01 | 10 min | 4386 | 0.29 | 0.28 | 0.02 | 0.29 | 0.26 | 0.29 | 0.25 | 0.23 | 0.12 | 0.29 | -0.01 | -1.7% |
| SC-110.01 | 10 min | 4386 | 0.31 | 0.30 | 0.02 | 0.31 | 0.30 | 0.31 | 0.27 | 0.26 | 0.13 | 0.31 | 0.00 | -1.3% |
| SC-110.02 | 10 min | 4388 | 0.73 | 0.71 | 0.05 | 0.71 | 0.71 | 0.70 | 0.66 | 0.63 | 0.33 | 0.71 | 0.00 | 0.6% |
| SC-110.03 | 10 min | 4386 | 0.79 | 0.77 | 0.06 | 0.77 | 0.77 | 0.76 | 0.71 | 0.68 | 0.36 | 0.77 | 0.00 | -0.2% |
| SC-111.01 | 45 min | 4553 | 0.18 | 0.19 | 0.03 | 0.19 | 0.09 | 0.16 | 0.15 | 0.15 | 0.11 | 0.16 | -0.03 | -17.8% |
| SC-112.01 | 10 min | 4386 | 0.53 | 0.52 | 0.04 | 0.52 | 0.51 | 0.51 | 0.46 | 0.43 | 0.23 | 0.51 | -0.01 | -1.5% |
| SC-113.01 | 10 min | 4387 | 0.20 | 0.20 | 0.02 | 0.20 | 0.18 | 0.20 | 0.17 | 0.16 | 0.08 | 0.20 | 0.00 | 1.8% |
| SC-113.02 | 10 min | 4386 | 0.63 | 0.62 | 0.04 | 0.62 | 0.61 | 0.61 | 0.57 | 0.54 | 0.30 | 0.61 | -0.01 | -0.9% |
| SC-114.01 | 10 min | 4386 | 0.33 | 0.32 | 0.03 | 0.32 | 0.32 | 0.32 | 0.29 | 0.28 | 0.16 | 0.32 | 0.00 | -0.4% |

# ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-114.02 | 10 min | 4386 | 0.54 | 0.53 | 0.04 | 0.53 | 0.52 | 0.52 | 0.49 | 0.47 | 0.26 | 0.52 | -0.01 | -1.2% |
| SC-114.03 | 10 min | 4386 | 1.15 | 1.12 | 0.09 | 1.13 | 1.11 | 1.11 | 1.01 | 0.96 | 0.52 | 1.11 | -0.02 | -1.9% |
| SC-115.01 | 10 min | 4386 | 0.30 | 0.29 | 0.02 | 0.30 | 0.29 | 0.30 | 0.26 | 0.25 | 0.13 | 0.30 | 0.00 | -1.3% |
| SC-115.02 | 10 min | 4386 | 0.50 | 0.49 | 0.04 | 0.49 | 0.48 | 0.48 | 0.45 | 0.43 | 0.22 | 0.48 | -0.01 | -1.2% |
| SC-116.01 | 10 min | 4386 | 0.30 | 0.29 | 0.02 | 0.30 | 0.29 | 0.29 | 0.26 | 0.25 | 0.13 | 0.29 | -0.01 | -2.8% |
| SC-116.02 | 10 min | 4386 | 0.50 | 0.49 | 0.04 | 0.50 | 0.48 | 0.49 | 0.44 | 0.42 | 0.22 | 0.49 | -0.01 | -2.6% |
| SC-117.01 | 10 min | 4387 | 0.19 | 0.19 | 0.01 | 0.19 | 0.17 | 0.19 | 0.15 | 0.15 | 0.08 | 0.19 | 0.00 | -0.2% |
| SC-118.01 | 10 min | 4386 | 0.39 | 0.38 | 0.03 | 0.38 | 0.37 | 0.38 | 0.33 | 0.31 | 0.16 | 0.38 | 0.00 | -1.1% |
| SC-119.01 | 10 min | 4386 | 0.60 | 0.58 | 0.05 | 0.59 | 0.58 | 0.58 | 0.52 | 0.49 | 0.26 | 0.58 | -0.01 | -2.1% |
| SC-119.02 | 10 min | 4386 | 1.52 | 1.48 | 0.12 | 1.51 | 1.44 | 1.49 | 1.32 | 1.24 | 0.66 | 1.49 | -0.02 | -1.6% |
| SC-12.01 | 10 min | 4386 | 0.33 | 0.32 | 0.03 | 0.33 | 0.31 | 0.32 | 0.28 | 0.26 | 0.14 | 0.32 | -0.01 | -3.1% |
| SC-12.02 | 10 min | 4386 | 0.57 | 0.56 | 0.04 | 0.58 | 0.53 | 0.57 | 0.48 | 0.46 | 0.24 | 0.57 | -0.01 | -2.5% |
| SC-12.03 | 10 min | 4386 | 1.08 | 1.05 | 0.08 | 1.07 | 1.02 | 1.05 | 0.93 | 0.88 | 0.46 | 1.05 | -0.02 | -1.8% |
| SC-12.04 | 10 min | 4386 | 1.37 | 1.34 | 0.10 | 1.35 | 1.32 | 1.33 | 1.20 | 1.13 | 0.60 | 1.33 | -0.02 | -1.6% |
| SC-120.01 | 10 min | 4386 | 0.27 | 0.26 | 0.02 | 0.27 | 0.25 | 0.27 | 0.23 | 0.22 | 0.11 | 0.27 | 0.00 | -1.6% |
| SC-121.01 | 10 min | 4386 | 0.33 | 0.32 | 0.03 | 0.33 | 0.32 | 0.32 | 0.29 | 0.27 | 0.14 | 0.32 | -0.01 | -1.7% |
| SC-122.01 | 10 min | 4386 | 0.55 | 0.54 | 0.05 | 0.55 | 0.51 | 0.54 | 0.46 | 0.43 | 0.22 | 0.54 | -0.01 | -2.0% |
| SC-122.02 | 10 min | 4386 | 0.89 | 0.87 | 0.07 | 0.89 | 0.84 | 0.87 | 0.76 | 0.72 | 0.37 | 0.87 | -0.02 | -2.3% |
| SC-122.03 | 10 min | 4386 | 1.18 | 1.15 | 0.09 | 1.16 | 1.15 | 1.14 | 1.06 | 0.99 | 0.51 | 1.15 | -0.01 | -1.3% |
| SC-123.01 | 10 min | 4386 | 0.28 | 0.28 | 0.02 | 0.28 | 0.27 | 0.28 | 0.24 | 0.23 | 0.12 | 0.28 | 0.00 | -0.8% |
| SC-123.02 | 10 min | 4388 | 0.81 | 0.79 | 0.06 | 0.79 | 0.79 | 0.77 | 0.71 | 0.67 | 0.35 | 0.79 | 0.00 | -0.4% |
| SC-123.03 | 10 min | 4388 | 5.33 | 5.26 | 0.41 | 5.28 | 5.28 | 5.02 | 4.88 | 4.65 | 2.77 | 5.28 | 0.00 | 0.0% |
| SC-123.04 | 10 min | 4388 | 5.44 | 5.36 | 0.42 | 5.38 | 5.38 | 5.15 | 4.97 | 4.72 | 2.82 | 5.38 | 0.00 | 0.0% |
| SC-123.05 | 10 min | 4386 | 6.97 | 6.81 | 0.44 | 6.83 | 6.80 | 6.69 | 6.29 | 5.94 | 3.52 | 6.80 | -0.03 | -0.5% |
| SC-123.06 | 10 min | 4386 | 7.16 | 7.01 | 0.38 | 7.09 | 6.93 | 6.94 | 6.44 | 6.13 | 3.63 | 6.94 | -0.15 | -2.1% |
| SC-123.07 | 10 min | 4387 | 7.46 | 7.38 | 0.37 | 7.48 | 7.04 | 7.33 | 6.87 | 6.48 | 3.93 | 7.33 | -0.15 | -2.0% |
| SC-124.01 | 45 min | 4549 | 0.26 | 0.27 | 0.03 | 0.27 | 0.22 | 0.23 | 0.23 | 0.23 | 0.19 | 0.23 | -0.04 | -14.2% |
| SC-124.02 | 20 min | 4451 | 1.92 | 1.88 | 0.25 | 1.92 | 1.87 | 1.77 | 1.83 | 1.78 | 1.22 | 1.87 | -0.05 | -2.7% |
| SC-125.01 | 45 min | 4549 | 0.36 | 0.37 | 0.05 | 0.37 | 0.27 | 0.31 | 0.32 | 0.32 | 0.25 | 0.32 | -0.05 | -12.9% |
| SC-126.01 | 10 min | 4386 | 0.26 | 0.25 | 0.02 | 0.26 | 0.24 | 0.26 | 0.22 | 0.21 | 0.11 | 0.26 | 0.00 | -1.8% |
| SC-126.02 | 20 min | 4451 | 0.50 | 0.50 | 0.07 | 0.52 | 0.47 | 0.45 | 0.48 | 0.48 | 0.35 | 0.48 | -0.04 | -7.0% |
| SC-126.03 | 20 min | 4451 | 1.07 | 1.03 | 0.14 | 1.03 | 1.05 | 1.02 | 1.01 | 0.99 | 0.63 | 1.05 | 0.02 | 2.3% |
| SC-127.01 | 10 min | 4386 | 0.61 | 0.60 | 0.05 | 0.61 | 0.56 | 0.60 | 0.51 | 0.48 | 0.24 | 0.60 | -0.01 | -1.9% |
| SC-127.02 | 10 min | 4386 | 1.67 | 1.62 | 0.13 | 1.66 | 1.58 | 1.63 | 1.43 | 1.34 | 0.69 | 1.63 | -0.03 | -1.9% |
| SC-128.01 | 10 min | 4386 | 0.59 | 0.58 | 0.05 | 0.59 | 0.56 | 0.58 | 0.51 | 0.48 | 0.25 | 0.58 | -0.01 | -2.4% |
| SC-129.01 | 10 min | 4386 | 0.28 | 0.28 | 0.02 | 0.28 | 0.26 | 0.28 | 0.25 | 0.24 | 0.13 | 0.28 | 0.00 | -0.9% |
| SC-13.01 | 10 min | 4386 | 0.30 | 0.29 | 0.02 | 0.30 | 0.28 | 0.29 | 0.26 | 0.24 | 0.13 | 0.29 | -0.01 | -2.1% |
| SC-130.01 | 10 min | 4386 | 0.44 | 0.43 | 0.04 | 0.44 | 0.41 | 0.43 | 0.38 | 0.35 | 0.18 | 0.43 | -0.01 | -1.5% |
| SC-131.01 | 10 min | 4382 | 0.18 | 0.18 | 0.01 | 0.18 | 0.16 | 0.19 | 0.15 | 0.14 | 0.07 | 0.19 | 0.01 | 4.1% |
| SC-132.01 | 10 min | 4386 | 0.25 | 0.25 | 0.02 | 0.25 | 0.23 | 0.25 | 0.21 | 0.20 | 0.11 | 0.25 | 0.00 | -1.2% |
| SC-133.01 | 10 min | 4387 | 0.19 | 0.19 | 0.01 | 0.19 | 0.17 | 0.19 | 0.15 | 0.14 | 0.07 | 0.19 | 0.00 | -0.6% |
| SC-134.01 | 10 min | 4387 | 0.15 | 0.15 | 0.01 | 0.15 | 0.14 | 0.16 | 0.13 | 0.12 | 0.07 | 0.16 | 0.01 | 3.5% |
| SC-134.02 | 10 min | 4389 | 0.47 | 0.47 | 0.03 | 0.47 | 0.49 | 0.43 | 0.45 | 0.43 | 0.24 | 0.49 | 0.02 | 3.4% |
| SC-134.03 | 20 min | 4446 | 0.89 | 0.88 | 0.12 | 0.89 | 0.88 | 0.74 | 0.90 | 0.87 | 0.50 | 0.90 | 0.01 | 1.0% |
| SC-134.04 | 20 min | 4450 | 1.18 | 1.16 | 0.20 | 1.21 | 1.12 | 0.93 | 1.21 | 1.18 | 0.71 | 1.21 | 0.00 | -0.3% |
| SC-135.01 | 10 min | 4382 | 0.13 | 0.13 | 0.01 | 0.13 | 0.11 | 0.13 | 0.11 | 0.10 | 0.05 | 0.13 | 0.00 | -0.2% |
| SC-135.02 | 10 min | 4386 | 0.69 | 0.67 | 0.05 | 0.68 | 0.66 | 0.67 | 0.60 | 0.57 | 0.30 | 0.67 | -0.01 | -1.1% |
| SC-135.03 | 10 min | 4386 | 0.91 | 0.89 | 0.07 | 0.89 | 0.88 | 0.88 | 0.80 | 0.76 | 0.40 | 0.88 | -0.01 | -1.2% |
| SC-135.04 | 10 min | 4388 | 2.02 | 1.98 | 0.15 | 1.98 | 1.98 | 1.93 | 1.79 | 1.69 | 0.89 | 1.98 | 0.00 | 0.1% |
| SC-135.05 | 10 min | 4388 | 2.29 | 2.24 | 0.14 | 2.25 | 2.25 | 2.19 | 2.05 | 1.94 | 1.02 | 2.25 | 0.00 | -0.1% |
| SC-135.06 | 10 min | 4380 | 3.61 | 3.60 | 0.23 | 3.60 | 3.61 | 3.38 | 3.43 | 3.26 | 1.72 | 3.61 | 0.01 | 0.3% |
| SC-136.01 | 10 min | 4386 | 0.36 | 0.35 | 0.03 | 0.36 | 0.34 | 0.35 | 0.31 | 0.29 | 0.15 | 0.35 | -0.01 | -3.2% |
| SC-137.01 | 10 min | 4386 | 0.38 | 0.37 | 0.03 | 0.38 | 0.35 | 0.37 | 0.32 | 0.30 | 0.16 | 0.37 | -0.01 | -2.4% |
| SC-138.01 | 10 min | 4386 | 0.47 | 0.46 | 0.03 | 0.47 | 0.44 | 0.47 | 0.40 | 0.37 | 0.20 | 0.47 | 0.00 | -0.7% |
| SC-139.01 | 10 min | 4386 | 0.42 | 0.41 | 0.04 | 0.42 | 0.41 | 0.41 | 0.37 | 0.35 | 0.19 | 0.41 | -0.01 | -2.1% |
| SC-139.02 | 10 min | 4386 | 0.52 | 0.50 | 0.04 | 0.51 | 0.50 | 0.50 | 0.46 | 0.44 | 0.23 | 0.50 | -0.01 | -2.3% |
| SC-14.01 | 10 min | 4386 | 0.53 | 0.52 | 0.04 | 0.53 | 0.49 | 0.52 | 0.44 | 0.42 | 0.22 | 0.52 | -0.01 | -1.1% |
| SC-14.02 | 10 min | 4386 | 0.84 | 0.82 | 0.06 | 0.84 | 0.79 | 0.82 | 0.72 | 0.68 | 0.36 | 0.82 | -0.02 | -2.4% |
| SC-14.03 | 10 min | 4386 | 1.09 | 1.06 | 0.08 | 1.07 | 1.04 | 1.05 | 0.96 | 0.91 | 0.48 | 1.05 | -0.02 | -1.7% |
| SC-140.01 | 10 min | 4386 | 0.30 | 0.30 | 0.02 | 0.30 | 0.29 | 0.30 | 0.26 | 0.25 | 0.13 | 0.30 | 0.00 | -1.2% |
| SC-141.01 | 20 min | 4452 | 0.40 | 0.40 | 0.10 | 0.41 | 0.35 | 0.30 | 0.43 | 0.43 | 0.23 | 0.43 | 0.02 | 4.0% |
| SC-142.01 | 45 min | 4549 | 0.60 | 0.63 | 0.10 | 0.63 | 0.44 | 0.51 | 0.51 | 0.52 | 0.39 | 0.52 | -0.11 | -18.1% |
| SC-143.01 | 10 min | 4388 | 0.25 | 0.24 | 0.02 | 0.24 | 0.24 | 0.24 | 0.23 | 0.22 | 0.17 | 0.24 | 0.00 | 0.6% |
| SC-143.02 | 20 min | 4451 | 2.30 | 2.22 | 0.33 | 2.24 | 2.23 | 2.14 | 2.20 | 2.13 | 1.21 | 2.23 | -0.01 | -0.4% |
| SC-144.01 | 10 min | 4386 | 0.35 | 0.35 | 0.03 | 0.35 | 0.34 | 0.35 | 0.31 | 0.29 | 0.17 | 0.35 | 0.00 | -0.7% |
| SC-144.02 | 10 min | 4386 | 0.51 | 0.49 | 0.04 | 0.50 | 0.48 | 0.49 | 0.45 | 0.42 | 0.25 | 0.49 | -0.01 | -1.0% |
| SC-144.03 | 10 min | 4386 | 0.66 | 0.66 | 0.02 | 0.66 | 0.65 | 0.64 | 0.60 | 0.58 | 0.34 | 0.65 | -0.01 | -1.7% |
| SC-144.04 | 10 min | 4389 | 1.15 | 1.15 | 0.04 | 1.15 | 1.17 | 1.08 | 1.08 | 1.06 | 0.59 | 1.17 | 0.02 | 2.0% |

## ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-144.05 | 10 min | 4389 | 2.12 | 2.09 | 0.11 | 2.09 | 2.16 | 1.95 | 2.11 | 2.02 | 1.10 | 2.16 | 0.07 | 3.4% |
| SC-145.01 | 10 min | 4386 | 0.47 | 0.47 | 0.03 | 0.47 | 0.44 | 0.47 | 0.40 | 0.37 | 0.19 | 0.47 | 0.00 | -0.5% |
| SC-145.02 | 10 min | 4386 | 0.84 | 0.82 | 0.06 | 0.83 | 0.82 | 0.81 | 0.75 | 0.70 | 0.36 | 0.82 | -0.01 | -1.1% |
| SC-146.01 | 45 min | 4553 | 0.71 | 0.76 | 0.12 | 0.76 | 0.30 | 0.59 | 0.62 | 0.58 | 0.42 | 0.62 | -0.14 | -18.7% |
| SC-147.01 | 20 min | 4449 | 0.34 | 0.34 | 0.08 | 0.35 | 0.24 | 0.26 | 0.33 | 0.34 | 0.20 | 0.34 | -0.01 | -3.8% |
| SC-147.02 | 45 min | 4547 | 0.48 | 0.49 | 0.08 | 0.49 | 0.36 | 0.37 | 0.50 | 0.49 | 0.28 | 0.50 | 0.01 | 2.9% |
| SC-147.03 | 20 min | 4451 | 1.28 | 1.30 | 0.31 | 1.38 | 1.06 | 0.94 | 1.39 | 1.36 | 0.73 | 1.39 | 0.01 | 0.6% |
| SC-148.01 | 10 min | 4386 | 0.37 | 0.37 | 0.03 | 0.38 | 0.34 | 0.37 | 0.32 | 0.30 | 0.16 | 0.37 | -0.01 | -2.8% |
| SC-148.02 | 20 min | 4451 | 0.71 | 0.67 | 0.15 | 0.72 | 0.67 | 0.55 | 0.75 | 0.74 | 0.37 | 0.75 | 0.03 | 4.8% |
| SC-149.01 | 10 min | 4386 | 0.27 | 0.26 | 0.02 | 0.26 | 0.26 | 0.26 | 0.24 | 0.22 | 0.14 | 0.26 | 0.00 | -0.5% |
| SC-149.02 | 20 min | 4450 | 0.73 | 0.73 | 0.19 | 0.78 | 0.57 | 0.53 | 0.78 | 0.79 | 0.42 | 0.79 | 0.01 | 0.9% |
| SC-15.01 | 10 min | 4386 | 0.53 | 0.52 | 0.04 | 0.52 | 0.51 | 0.51 | 0.47 | 0.44 | 0.23 | 0.51 | -0.01 | -1.3% |
| SC-15.02 | 10 min | 4386 | 0.71 | 0.69 | 0.06 | 0.70 | 0.68 | 0.68 | 0.62 | 0.58 | 0.31 | 0.68 | -0.02 | -2.3% |
| SC-15.03 | 10 min | 4388 | 1.14 | 1.11 | 0.09 | 1.11 | 1.11 | 1.08 | 1.01 | 0.95 | 0.51 | 1.11 | 0.00 | 0.3% |
| SC-150.01 | 10 min | 4386 | 0.32 | 0.31 | 0.03 | 0.32 | 0.30 | 0.31 | 0.27 | 0.26 | 0.13 | 0.31 | -0.01 | -1.8% |
| SC-150.02 | 10 min | 4386 | 0.63 | 0.62 | 0.05 | 0.62 | 0.61 | 0.61 | 0.56 | 0.53 | 0.28 | 0.61 | -0.01 | -1.2% |
| SC-150.03 | 10 min | 4388 | 1.64 | 1.60 | 0.13 | 1.61 | 1.61 | 1.56 | 1.46 | 1.38 | 0.72 | 1.61 | 0.00 | -0.2% |
| SC-150.04 | 10 min | 4386 | 2.12 | 2.08 | 0.15 | 2.08 | 2.07 | 2.04 | 1.89 | 1.79 | 0.95 | 2.07 | -0.01 | -0.3% |
| SC-150.05 | 10 min | 4388 | 2.99 | 2.95 | 0.18 | 2.95 | 2.95 | 2.85 | 2.67 | 2.52 | 1.35 | 2.95 | 0.00 | 0.0% |
| SC-150.06 | 10 min | 4388 | 5.55 | 5.51 | 0.30 | 5.52 | 5.52 | 5.25 | 5.00 | 4.74 | 2.54 | 5.52 | 0.00 | 0.0% |
| SC-150.07 | 10 min | 4388 | 8.75 | 8.68 | 0.51 | 8.70 | 8.70 | 8.15 | 8.00 | 7.56 | 4.04 | 8.70 | 0.00 | 0.0% |
| SC-150.08 | 6 hours | 4732 | 3.47 | 3.13 | 0.76 | 3.14 | 0.24 | 0.28 | 0.28 | 0.33 | 0.40 | 0.40 | -2.75 | -87.4% |
| SC-150.09 | 6 hours | 4732 | 3.72 | 3.34 | 0.81 | 3.35 | 1.44 | 1.32 | 1.34 | 1.28 | 0.86 | 1.44 | -1.91 | -56.9% |
| SC-150.10 | 6 hours | 4740 | 4.49 | 4.09 | 0.99 | 4.12 | 3.53 | 3.46 | 3.45 | 3.31 | 2.12 | 3.53 | -0.60 | -14.4% |
| SC-150.11 | 10 min | 4388 | 9.48 | 9.42 | 0.38 | 9.43 | 9.43 | 9.01 | 9.00 | 8.55 | 4.90 | 9.43 | 0.00 | 0.0% |
| SC-150.12 | 10 min | 4388 | 14.70 | 14.61 | 0.48 | 14.63 | 14.63 | 14.06 | 13.93 | 13.27 | 7.55 | 14.63 | 0.00 | 0.0% |
| SC-150.13 | 10 min | 4386 | 16.37 | 16.37 | 0.40 | 16.46 | 15.80 | 16.31 | 16.07 | 15.15 | 8.88 | 16.31 | -0.15 | -0.9% |
| SC-150.14 | 20 min | 4455 | 23.28 | 22.98 | 1.06 | 23.09 | 21.23 | 22.84 | 23.18 | 22.09 | 14.14 | 23.18 | 0.09 | 0.4% |
| SC-150.15 | 20 min | 4453 | 23.63 | 23.33 | 1.01 | 23.35 | 21.31 | 23.28 | 23.45 | 22.47 | 14.47 | 23.45 | 0.10 | 0.4% |
| SC-150.16 | 20 min | 4450 | 24.83 | 24.65 | 0.97 | 24.72 | 21.76 | 24.57 | 24.72 | 23.79 | 15.50 | 24.72 | 0.00 | 0.0% |
| SC-150.17 | 20 min | 4453 | 25.45 | 25.33 | 1.02 | 25.39 | 22.01 | 25.45 | 25.28 | 24.56 | 16.12 | 25.45 | 0.05 | 0.2% |
| SC-151.01 | 10 min | 4386 | 0.42 | 0.41 | 0.04 | 0.42 | 0.40 | 0.41 | 0.37 | 0.35 | 0.18 | 0.41 | -0.01 | -2.0% |
| SC-151.02 | 10 min | 4386 | 0.68 | 0.66 | 0.06 | 0.67 | 0.64 | 0.66 | 0.59 | 0.56 | 0.29 | 0.66 | -0.01 | -1.5% |
| SC-152.01 | 10 min | 4386 | 0.39 | 0.38 | 0.03 | 0.39 | 0.37 | 0.38 | 0.33 | 0.31 | 0.17 | 0.38 | -0.01 | -1.5% |
| SC-153.01 | 10 min | 4386 | 0.32 | 0.31 | 0.03 | 0.32 | 0.30 | 0.32 | 0.27 | 0.25 | 0.14 | 0.32 | 0.00 | -1.4% |
| SC-153.02 | 10 min | 4388 | 0.77 | 0.75 | 0.06 | 0.75 | 0.75 | 0.73 | 0.67 | 0.63 | 0.34 | 0.75 | 0.00 | -0.1% |
| SC-154.01 | 10 min | 4386 | 0.57 | 0.55 | 0.04 | 0.55 | 0.55 | 0.54 | 0.50 | 0.47 | 0.26 | 0.55 | 0.00 | -0.2% |
| SC-154.02 | 10 min | 4388 | 2.00 | 1.98 | 0.15 | 1.98 | 1.98 | 1.89 | 1.79 | 1.69 | 0.93 | 1.98 | 0.00 | 0.0% |
| SC-155.01 | 10 min | 4387 | 0.20 | 0.20 | 0.01 | 0.21 | 0.19 | 0.21 | 0.19 | 0.18 | 0.10 | 0.21 | 0.00 | -2.0% |
| SC-155.02 | 10 min | 4386 | 0.60 | 0.59 | 0.05 | 0.59 | 0.58 | 0.58 | 0.55 | 0.52 | 0.28 | 0.58 | -0.01 | -0.9% |
| SC-156.01 | 10 min | 4386 | 0.24 | 0.23 | 0.02 | 0.24 | 0.23 | 0.23 | 0.21 | 0.20 | 0.10 | 0.23 | -0.01 | -2.2% |
| SC-157.01 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.29 | 0.27 | 0.29 | 0.25 | 0.23 | 0.12 | 0.29 | 0.00 | -0.6% |
| SC-158.01 | 10 min | 4386 | 0.36 | 0.35 | 0.03 | 0.36 | 0.34 | 0.35 | 0.31 | 0.29 | 0.15 | 0.35 | -0.01 | -2.8% |
| SC-158.02 | 10 min | 4386 | 0.47 | 0.45 | 0.04 | 0.46 | 0.45 | 0.45 | 0.42 | 0.40 | 0.21 | 0.45 | -0.01 | -1.9% |
| SC-158.03 | 10 min | 4388 | 1.04 | 1.01 | 0.08 | 1.02 | 1.02 | 0.99 | 0.93 | 0.88 | 0.47 | 1.02 | 0.00 | -0.4% |
| SC-158.04 | 10 min | 4388 | 1.95 | 1.90 | 0.16 | 1.90 | 1.90 | 1.86 | 1.72 | 1.63 | 0.87 | 1.90 | 0.00 | 0.0% |
| SC-159.01 | 10 min | 4386 | 0.29 | 0.28 | 0.02 | 0.28 | 0.27 | 0.28 | 0.25 | 0.23 | 0.12 | 0.28 | 0.00 | -0.1% |
| SC-16.01 | 10 min | 4386 | 0.35 | 0.34 | 0.03 | 0.35 | 0.33 | 0.34 | 0.30 | 0.28 | 0.15 | 0.34 | -0.01 | -3.1% |
| SC-160.01 | 10 min | 4386 | 0.28 | 0.28 | 0.02 | 0.28 | 0.26 | 0.28 | 0.24 | 0.23 | 0.12 | 0.28 | 0.00 | -0.5% |
| SC-160.02 | 10 min | 4386 | 0.64 | 0.62 | 0.05 | 0.63 | 0.62 | 0.61 | 0.57 | 0.54 | 0.28 | 0.62 | -0.01 | -1.8% |
| SC-161.01 | 10 min | 4386 | 0.34 | 0.33 | 0.03 | 0.34 | 0.32 | 0.33 | 0.29 | 0.27 | 0.14 | 0.33 | -0.01 | -2.6% |
| SC-161.02 | 10 min | 4386 | 0.68 | 0.66 | 0.05 | 0.68 | 0.64 | 0.67 | 0.58 | 0.55 | 0.29 | 0.67 | -0.01 | -2.0% |
| SC-162.01 | 10 min | 4386 | 0.42 | 0.42 | 0.03 | 0.42 | 0.39 | 0.42 | 0.36 | 0.34 | 0.18 | 0.42 | 0.00 | -0.4% |
| SC-163.01 | 10 min | 4387 | 0.22 | 0.21 | 0.01 | 0.22 | 0.20 | 0.22 | 0.20 | 0.19 | 0.11 | 0.22 | 0.00 | -1.8% |
| SC-163.02 | 10 min | 4386 | 0.44 | 0.43 | 0.03 | 0.43 | 0.43 | 0.42 | 0.40 | 0.39 | 0.21 | 0.43 | 0.00 | -0.8% |
| SC-163.03 | 10 min | 4388 | 0.73 | 0.71 | 0.05 | 0.71 | 0.71 | 0.70 | 0.67 | 0.64 | 0.35 | 0.71 | 0.00 | 0.3% |
| SC-163.04 | 10 min | 4386 | 1.03 | 1.01 | 0.08 | 1.01 | 1.01 | 0.99 | 0.93 | 0.88 | 0.48 | 1.01 | 0.00 | -0.4% |
| SC-163.05 | 10 min | 4388 | 1.81 | 1.78 | 0.13 | 1.79 | 1.79 | 1.72 | 1.62 | 1.53 | 0.83 | 1.79 | 0.00 | -0.1% |
| SC-164.01 | 10 min | 4386 | 0.37 | 0.37 | 0.03 | 0.37 | 0.35 | 0.37 | 0.31 | 0.29 | 0.16 | 0.37 | 0.00 | -0.7% |
| SC-165.01 | 10 min | 4386 | 0.32 | 0.31 | 0.02 | 0.32 | 0.30 | 0.31 | 0.27 | 0.25 | 0.13 | 0.31 | -0.01 | -2.5% |
| SC-165.02 | 10 min | 4386 | 0.81 | 0.79 | 0.06 | 0.81 | 0.77 | 0.79 | 0.69 | 0.65 | 0.35 | 0.79 | -0.02 | -2.3% |
| SC-165.03 | 10 min | 4386 | 1.06 | 1.03 | 0.08 | 1.04 | 1.02 | 1.02 | 0.91 | 0.85 | 0.46 | 1.02 | -0.02 | -1.6% |
| SC-165.04 | 10 min | 4388 | 2.24 | 2.20 | 0.14 | 2.20 | 2.20 | 2.15 | 1.99 | 1.88 | 1.01 | 2.20 | 0.00 | -0.1% |
| SC-165.05 | 10 min | 4388 | 3.80 | 3.72 | 0.23 | 3.73 | 3.73 | 3.62 | 3.41 | 3.21 | 1.74 | 3.73 | 0.00 | 0.0% |
| SC-166.01 | 10 min | 4386 | 0.29 | 0.28 | 0.02 | 0.29 | 0.27 | 0.28 | 0.24 | 0.23 | 0.12 | 0.28 | -0.01 | -1.8% |
| SC-167.01 | 10 min | 4386 | 0.41 | 0.40 | 0.03 | 0.41 | 0.38 | 0.40 | 0.34 | 0.33 | 0.17 | 0.40 | -0.01 | -1.4% |
| SC-167.02 | 10 min | 4386 | 1.04 | 1.01 | 0.08 | 1.03 | 0.99 | 1.01 | 0.92 | 0.87 | 0.45 | 1.01 | -0.02 | -1.8% |
| SC-168.01 | 10 min | 4386 | 0.33 | 0.32 | 0.02 | 0.32 | 0.31 | 0.32 | 0.28 | 0.27 | 0.14 | 0.32 | 0.00 | -0.4% |

## ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-169.01 | 10 min | 4386 | 0.32 | 0.31 | 0.02 | 0.32 | 0.30 | 0.32 | 0.27 | 0.25 | 0.14 | 0.32 | 0.00 | -1.3% |
| SC-169.02 | 10 min | 4386 | 0.58 | 0.56 | 0.04 | 0.57 | 0.56 | 0.56 | 0.51 | 0.48 | 0.27 | 0.56 | -0.01 | -1.5% |
| SC-169.03 | 10 min | 4386 | 1.30 | 1.27 | 0.10 | 1.27 | 1.26 | 1.25 | 1.14 | 1.07 | 0.58 | 1.26 | -0.01 | -0.5% |
| SC-17.01 | 10 min | 4386 | 0.30 | 0.29 | 0.02 | 0.30 | 0.28 | 0.30 | 0.26 | 0.24 | 0.13 | 0.30 | -0.01 | -1.7% |
| SC-17.02 | 10 min | 4386 | 0.54 | 0.53 | 0.04 | 0.54 | 0.51 | 0.53 | 0.47 | 0.45 | 0.23 | 0.53 | -0.01 | -2.1% |
| SC-17.03 | 10 min | 4386 | 0.90 | 0.88 | 0.07 | 0.88 | 0.87 | 0.86 | 0.80 | 0.76 | 0.40 | 0.87 | -0.01 | -1.1% |
| SC-17.04 | 10 min | 4388 | 2.10 | 2.07 | 0.16 | 2.07 | 2.07 | 1.99 | 1.92 | 1.83 | 0.96 | 2.07 | 0.00 | 0.1% |
| SC-17.05 | 10 min | 4388 | 2.92 | 2.87 | 0.21 | 2.88 | 2.88 | 2.77 | 2.69 | 2.56 | 1.34 | 2.88 | 0.00 | 0.1% |
| SC-17.06 | 10 min | 4388 | 3.34 | 3.33 | 0.20 | 3.33 | 3.33 | 3.14 | 3.07 | 2.91 | 1.55 | 3.33 | 0.00 | 0.1% |
| SC-17.07 | 10 min | 4388 | 3.57 | 3.50 | 0.17 | 3.50 | 3.50 | 3.40 | 3.28 | 3.12 | 1.66 | 3.50 | 0.00 | 0.0% |
| SC-170.01 | 10 min | 4386 | 0.28 | 0.27 | 0.02 | 0.28 | 0.26 | 0.27 | 0.24 | 0.22 | 0.12 | 0.27 | -0.01 | -3.5% |
| SC-171.01 | 10 min | 4387 | 0.20 | 0.20 | 0.02 | 0.21 | 0.18 | 0.20 | 0.16 | 0.15 | 0.08 | 0.20 | -0.01 | -3.4% |
| SC-172.01 | 10 min | 4386 | 0.39 | 0.39 | 0.03 | 0.40 | 0.36 | 0.39 | 0.33 | 0.31 | 0.16 | 0.39 | -0.01 | -2.3% |
| SC-172.02 | 10 min | 4386 | 0.69 | 0.68 | 0.06 | 0.70 | 0.64 | 0.68 | 0.58 | 0.55 | 0.29 | 0.68 | -0.02 | -2.3% |
| SC-173.01 | 1 hour | 4581 | 0.33 | 0.33 | 0.06 | 0.34 | 0.20 | 0.24 | 0.23 | 0.27 | 0.26 | 0.27 | -0.07 | -21.4% |
| SC-173.02 | 20 min | 4451 | 0.71 | 0.69 | 0.09 | 0.71 | 0.68 | 0.67 | 0.66 | 0.64 | 0.52 | 0.68 | -0.03 | -3.5% |
| SC-173.03 | 10 min | 4386 | 0.78 | 0.76 | 0.05 | 0.78 | 0.74 | 0.76 | 0.71 | 0.67 | 0.55 | 0.76 | -0.02 | -2.3% |
| SC-173.04 | 10 min | 4388 | 1.48 | 1.46 | 0.11 | 1.46 | 1.46 | 1.37 | 1.34 | 1.27 | 0.85 | 1.46 | 0.00 | 0.2% |
| SC-173.05 | 10 min | 4386 | 1.77 | 1.74 | 0.05 | 1.75 | 1.74 | 1.69 | 1.60 | 1.52 | 0.99 | 1.74 | -0.01 | -0.4% |
| SC-174.01 | 10 min | 4386 | 0.25 | 0.25 | 0.02 | 0.25 | 0.23 | 0.25 | 0.21 | 0.20 | 0.10 | 0.25 | 0.00 | -0.5% |
| SC-175.01 | 10 min | 4386 | 0.43 | 0.42 | 0.04 | 0.43 | 0.41 | 0.42 | 0.37 | 0.35 | 0.18 | 0.42 | -0.01 | -1.3% |
| SC-175.02 | 10 min | 4386 | 0.89 | 0.87 | 0.07 | 0.88 | 0.86 | 0.86 | 0.78 | 0.74 | 0.39 | 0.86 | -0.02 | -2.0% |
| SC-175.03 | 10 min | 4386 | 1.44 | 1.40 | 0.12 | 1.41 | 1.40 | 1.39 | 1.27 | 1.20 | 0.64 | 1.40 | -0.01 | -1.0% |
| SC-175.04 | 10 min | 4386 | 1.77 | 1.72 | 0.13 | 1.75 | 1.69 | 1.72 | 1.57 | 1.48 | 0.81 | 1.72 | -0.03 | -2.0% |
| SC-175.05 | 10 min | 4386 | 2.03 | 1.99 | 0.11 | 2.00 | 1.98 | 1.95 | 1.81 | 1.72 | 0.92 | 1.98 | -0.02 | -0.8% |
| SC-176.01 | 10 min | 4387 | 0.18 | 0.18 | 0.01 | 0.18 | 0.17 | 0.18 | 0.16 | 0.15 | 0.09 | 0.18 | 0.00 | 0.3% |
| SC-177.01 | 10 min | 4386 | 0.25 | 0.25 | 0.02 | 0.25 | 0.23 | 0.25 | 0.21 | 0.20 | 0.10 | 0.25 | 0.00 | -1.3% |
| SC-177.02 | 10 min | 4388 | 0.65 | 0.64 | 0.05 | 0.64 | 0.64 | 0.62 | 0.58 | 0.55 | 0.29 | 0.64 | 0.00 | -0.2% |
| SC-177.03 | 10 min | 4388 | 1.81 | 1.77 | 0.14 | 1.77 | 1.77 | 1.73 | 1.61 | 1.52 | 0.81 | 1.77 | 0.00 | 0.0% |
| SC-177.04 | 10 min | 4388 | 2.46 | 2.40 | 0.18 | 2.40 | 2.41 | 2.35 | 2.20 | 2.08 | 1.10 | 2.41 | 0.00 | 0.2% |
| SC-178.01 | 10 min | 4386 | 0.53 | 0.51 | 0.04 | 0.52 | 0.51 | 0.50 | 0.46 | 0.43 | 0.23 | 0.51 | -0.01 | -2.5% |
| SC-178.02 | 10 min | 4386 | 0.81 | 0.79 | 0.06 | 0.80 | 0.79 | 0.78 | 0.72 | 0.68 | 0.36 | 0.79 | -0.01 | -0.8% |
| SC-179.01 | 10 min | 4386 | 0.43 | 0.42 | 0.04 | 0.43 | 0.41 | 0.42 | 0.37 | 0.35 | 0.18 | 0.42 | -0.01 | -1.8% |
| SC-18.01 | 10 min | 4386 | 0.34 | 0.34 | 0.03 | 0.34 | 0.31 | 0.34 | 0.29 | 0.28 | 0.14 | 0.34 | 0.00 | -0.6% |
| SC-18.02 | 10 min | 4386 | 0.54 | 0.52 | 0.04 | 0.53 | 0.51 | 0.52 | 0.49 | 0.47 | 0.24 | 0.52 | -0.01 | -2.0% |
| SC-180.01 | 10 min | 4386 | 0.41 | 0.40 | 0.03 | 0.41 | 0.40 | 0.40 | 0.36 | 0.34 | 0.18 | 0.40 | -0.01 | -2.2% |
| SC-180.02 | 10 min | 4386 | 0.73 | 0.71 | 0.06 | 0.72 | 0.70 | 0.70 | 0.64 | 0.60 | 0.33 | 0.70 | -0.02 | -2.3% |
| SC-180.03 | 10 min | 4388 | 1.02 | 1.00 | 0.08 | 1.00 | 1.00 | 0.98 | 0.91 | 0.86 | 0.47 | 1.00 | 0.00 | 0.0% |
| SC-180.04 | 10 min | 4386 | 1.48 | 1.44 | 0.12 | 1.44 | 1.44 | 1.41 | 1.31 | 1.24 | 0.67 | 1.44 | 0.00 | -0.1% |
| SC-181.01 | 10 min | 4386 | 0.16 | 0.16 | 0.01 | 0.17 | 0.15 | 0.16 | 0.15 | 0.14 | 0.10 | 0.16 | -0.01 | -3.2% |
| SC-181.02 | 10 min | 4386 | 0.61 | 0.60 | 0.04 | 0.61 | 0.59 | 0.60 | 0.55 | 0.52 | 0.29 | 0.60 | -0.01 | -2.1% |
| SC-181.03 | 10 min | 4386 | 1.02 | 0.99 | 0.07 | 0.99 | 0.99 | 0.97 | 0.90 | 0.85 | 0.47 | 0.99 | 0.00 | 0.0% |
| SC-181.04 | 10 min | 4388 | 1.82 | 1.76 | 0.13 | 1.77 | 1.77 | 1.72 | 1.66 | 1.57 | 0.91 | 1.77 | 0.00 | -0.1% |
| SC-181.05 | 10 min | 4388 | 2.01 | 1.98 | 0.07 | 1.98 | 1.98 | 1.93 | 1.82 | 1.74 | 1.00 | 1.98 | 0.00 | 0.2% |
| SC-181.06 | 10 min | 4386 | 2.23 | 2.20 | 0.06 | 2.21 | 2.19 | 2.15 | 2.03 | 1.95 | 1.09 | 2.19 | -0.02 | -0.9% |
| SC-181.07 | 10 min | 4391 | 5.05 | 5.01 | 0.15 | 5.04 | 5.05 | 4.79 | 4.65 | 4.45 | 2.42 | 5.05 | 0.01 | 0.2% |
| SC-181.08 | 10 min | 4386 | 5.22 | 5.16 | 0.12 | 5.16 | 5.16 | 4.98 | 4.82 | 4.59 | 2.50 | 5.16 | 0.00 | 0.0% |
| SC-182.01 | 10 min | 4386 | 0.29 | 0.28 | 0.02 | 0.29 | 0.28 | 0.28 | 0.25 | 0.24 | 0.13 | 0.28 | -0.01 | -2.1% |
| SC-182.02 | 10 min | 4386 | 0.48 | 0.47 | 0.04 | 0.47 | 0.46 | 0.46 | 0.43 | 0.41 | 0.22 | 0.46 | -0.01 | -1.4% |
| SC-182.03 | 10 min | 4388 | 0.75 | 0.74 | 0.06 | 0.74 | 0.74 | 0.71 | 0.69 | 0.66 | 0.40 | 0.74 | 0.00 | 0.1% |
| SC-183.01 | 10 min | 4386 | 0.27 | 0.27 | 0.02 | 0.27 | 0.26 | 0.27 | 0.24 | 0.23 | 0.14 | 0.27 | 0.00 | -1.5% |
| SC-183.02 | 10 min | 4388 | 0.64 | 0.63 | 0.05 | 0.63 | 0.63 | 0.61 | 0.58 | 0.55 | 0.31 | 0.63 | 0.00 | -0.4% |
| SC-183.03 | 10 min | 4388 | 1.61 | 1.59 | 0.10 | 1.60 | 1.60 | 1.54 | 1.46 | 1.38 | 0.76 | 1.60 | 0.00 | -0.1% |
| SC-183.04 | 10 min | 4388 | 1.87 | 1.85 | 0.09 | 1.85 | 1.85 | 1.79 | 1.70 | 1.61 | 0.87 | 1.85 | 0.00 | 0.2% |
| SC-184.01 | 10 min | 4386 | 0.68 | 0.66 | 0.05 | 0.68 | 0.65 | 0.66 | 0.59 | 0.56 | 0.31 | 0.66 | -0.02 | -2.3% |
| SC-185.01 | 10 min | 4386 | 0.40 | 0.39 | 0.03 | 0.40 | 0.38 | 0.39 | 0.35 | 0.33 | 0.17 | 0.39 | -0.01 | -2.3% |
| SC-185.02 | 10 min | 4386 | 0.91 | 0.89 | 0.07 | 0.89 | 0.88 | 0.87 | 0.80 | 0.76 | 0.40 | 0.88 | -0.01 | -0.6% |
| SC-186.01 | 10 min | 4386 | 0.15 | 0.14 | 0.01 | 0.14 | 0.14 | 0.14 | 0.13 | 0.12 | 0.07 | 0.14 | 0.00 | 0.8% |
| SC-187.01 | 10 min | 4386 | 0.41 | 0.41 | 0.03 | 0.42 | 0.38 | 0.41 | 0.35 | 0.33 | 0.17 | 0.41 | -0.01 | -2.8% |
| SC-187.02 | 10 min | 4386 | 0.81 | 0.79 | 0.07 | 0.80 | 0.78 | 0.78 | 0.71 | 0.67 | 0.36 | 0.78 | -0.02 | -1.9% |
| SC-187.03 | 10 min | 4386 | 0.96 | 0.94 | 0.06 | 0.96 | 0.92 | 0.94 | 0.84 | 0.79 | 0.43 | 0.94 | -0.02 | -1.7% |
| SC-187.04 | 10 min | 4385 | 1.25 | 1.24 | 0.04 | 1.24 | 1.21 | 1.23 | 1.11 | 1.06 | 0.55 | 1.23 | -0.01 | -1.0% |
| SC-187.05 | 10 min | 4385 | 1.47 | 1.48 | 0.04 | 1.48 | 1.45 | 1.45 | 1.32 | 1.27 | 0.64 | 1.45 | -0.03 | -2.2% |
| SC-188.01 | 10 min | 4386 | 0.44 | 0.43 | 0.04 | 0.44 | 0.40 | 0.43 | 0.36 | 0.35 | 0.18 | 0.43 | -0.01 | -2.0% |
| SC-188.02 | 10 min | 4386 | 0.65 | 0.64 | 0.05 | 0.66 | 0.61 | 0.64 | 0.57 | 0.54 | 0.28 | 0.64 | -0.02 | -2.6% |
| SC-189.01 | 10 min | 4386 | 0.49 | 0.48 | 0.04 | 0.50 | 0.46 | 0.49 | 0.41 | 0.39 | 0.20 | 0.49 | -0.01 | -2.8% |
| SC-189.02 | 10 min | 4386 | 0.90 | 0.88 | 0.07 | 0.89 | 0.86 | 0.88 | 0.77 | 0.73 | 0.39 | 0.88 | -0.01 | -1.6% |
| SC-19.01 | 10 min | 4387 | 0.20 | 0.20 | 0.01 | 0.20 | 0.18 | 0.20 | 0.18 | 0.18 | 0.09 | 0.20 | 0.00 | -1.1% |

## ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-190.01 | 10 min | 4386 | 0.22 | 0.22 | 0.02 | 0.22 | 0.20 | 0.22 | 0.19 | 0.18 | 0.09 | 0.22 | 0.00 | 0.4% |
| SC-191.01 | 10 min | 4386 | 0.39 | 0.39 | 0.03 | 0.40 | 0.37 | 0.39 | 0.33 | 0.31 | 0.16 | 0.39 | -0.01 | -3.0% |
| SC-191.02 | 10 min | 4386 | 0.58 | 0.56 | 0.05 | 0.57 | 0.54 | 0.56 | 0.50 | 0.48 | 0.25 | 0.56 | -0.01 | -1.2% |
| SC-191.03 | 10 min | 4386 | 1.07 | 1.05 | 0.08 | 1.05 | 1.04 | 1.03 | 0.95 | 0.90 | 0.48 | 1.04 | -0.01 | -0.8% |
| SC-191.04 | 10 min | 4386 | 1.56 | 1.52 | 0.13 | 1.52 | 1.52 | 1.50 | 1.39 | 1.31 | 0.70 | 1.52 | 0.00 | 0.1% |
| SC-191.05 | 10 min | 4388 | 2.21 | 2.17 | 0.15 | 2.17 | 2.17 | 2.11 | 1.97 | 1.86 | 0.99 | 2.17 | 0.00 | 0.2% |
| SC-191.06 | 10 min | 4388 | 3.78 | 3.73 | 0.25 | 3.73 | 3.73 | 3.59 | 3.39 | 3.22 | 1.84 | 3.73 | 0.00 | 0.1% |
| SC-191.07 | 10 min | 4388 | 4.49 | 4.41 | 0.26 | 4.42 | 4.42 | 4.26 | 4.15 | 3.94 | 2.24 | 4.42 | 0.00 | 0.0% |
| SC-191.08 | 10 min | 4386 | 4.79 | 4.80 | 0.23 | 4.85 | 4.46 | 4.71 | 4.51 | 4.25 | 2.52 | 4.71 | -0.14 | -2.8% |
| SC-192.01 | 10 min | 4386 | 1.29 | 1.25 | 0.10 | 1.28 | 1.22 | 1.26 | 1.10 | 1.04 | 0.57 | 1.26 | -0.02 | -1.8% |
| SC-193.01 | 10 min | 4386 | 0.55 | 0.54 | 0.05 | 0.54 | 0.53 | 0.53 | 0.49 | 0.46 | 0.27 | 0.53 | -0.01 | -1.2% |
| SC-194.01 | 10 min | 4386 | 0.54 | 0.53 | 0.04 | 0.54 | 0.52 | 0.53 | 0.49 | 0.48 | 0.30 | 0.53 | -0.01 | -1.2% |
| SC-194.02 | 1 hour | 4581 | 1.78 | 1.73 | 0.38 | 1.84 | 1.40 | 1.40 | 1.47 | 1.47 | 1.35 | 1.47 | -0.37 | -20.0% |
| SC-194.03 | 45 min | 4549 | 1.99 | 2.03 | 0.26 | 2.03 | 1.72 | 1.73 | 1.75 | 1.70 | 1.54 | 1.75 | -0.28 | -13.9% |
| SC-195.01 | 45 min | 4551 | 0.61 | 0.61 | 0.08 | 0.61 | 0.31 | 0.45 | 0.42 | 0.49 | 0.43 | 0.49 | -0.12 | -19.7% |
| SC-196.01 | 10 min | 4386 | 1.79 | 1.75 | 0.13 | 1.76 | 1.74 | 1.73 | 1.64 | 1.55 | 0.93 | 1.74 | -0.02 | -1.1% |
| SC-197.01 | 10 min | 4386 | 1.15 | 1.14 | 0.08 | 1.17 | 1.08 | 1.15 | 1.07 | 1.04 | 0.62 | 1.15 | -0.02 | -2.1% |
| SC-198.01 | 45 min | 4549 | 0.95 | 1.03 | 0.15 | 1.03 | 0.38 | 0.77 | 0.82 | 0.76 | 0.59 | 0.82 | -0.21 | -20.8% |
| SC-2.01 | 10 min | 4386 | 0.25 | 0.24 | 0.02 | 0.25 | 0.23 | 0.24 | 0.23 | 0.22 | 0.13 | 0.24 | -0.01 | -2.2% |
| SC-20.01 | 10 min | 4386 | 0.27 | 0.27 | 0.02 | 0.27 | 0.25 | 0.27 | 0.23 | 0.22 | 0.11 | 0.27 | 0.00 | -1.1% |
| SC-200.01 | 10 min | 4386 | 0.41 | 0.41 | 0.03 | 0.42 | 0.38 | 0.41 | 0.35 | 0.33 | 0.17 | 0.41 | -0.01 | -2.4% |
| SC-200.02 | 10 min | 4386 | 0.71 | 0.69 | 0.05 | 0.70 | 0.67 | 0.69 | 0.61 | 0.57 | 0.32 | 0.69 | -0.01 | -1.3% |
| SC-200.03 | 10 min | 4386 | 1.30 | 1.27 | 0.10 | 1.27 | 1.26 | 1.25 | 1.14 | 1.08 | 0.61 | 1.26 | -0.01 | -0.6% |
| SC-200.04 | 10 min | 4388 | 1.82 | 1.82 | 0.14 | 1.82 | 1.82 | 1.69 | 1.72 | 1.63 | 0.91 | 1.82 | 0.00 | 0.1% |
| SC-200.05 | 10 min | 4388 | 2.96 | 2.93 | 0.20 | 2.94 | 2.94 | 2.79 | 2.75 | 2.62 | 1.43 | 2.94 | 0.00 | 0.0% |
| SC-200.06 | 20 min | 4450 | 4.30 | 4.18 | 0.55 | 4.27 | 4.31 | 3.85 | 4.27 | 4.11 | 2.33 | 4.31 | 0.04 | 1.0% |
| SC-200.07 | 20 min | 4451 | 4.84 | 4.65 | 0.70 | 4.76 | 4.72 | 4.09 | 4.90 | 4.73 | 2.75 | 4.90 | 0.14 | 3.0% |
| SC-200.08 | 20 min | 4451 | 5.42 | 5.19 | 0.87 | 5.37 | 5.03 | 4.36 | 5.65 | 5.43 | 3.17 | 5.65 | 0.28 | 5.2% |
| SC-200.09 | 45 min | 4547 | 7.82 | 7.71 | 1.09 | 7.71 | 6.00 | 5.79 | 8.05 | 7.71 | 4.64 | 8.05 | 0.34 | 4.4% |
| SC-201.01 | 10 min | 4386 | 0.48 | 0.47 | 0.04 | 0.48 | 0.46 | 0.47 | 0.41 | 0.39 | 0.20 | 0.47 | -0.01 | -2.7% |
| SC-202.01 | 10 min | 4386 | 0.49 | 0.48 | 0.04 | 0.49 | 0.47 | 0.48 | 0.42 | 0.40 | 0.20 | 0.48 | -0.01 | -2.8% |
| SC-203.01 | 10 min | 4386 | 0.50 | 0.49 | 0.04 | 0.51 | 0.46 | 0.50 | 0.42 | 0.40 | 0.21 | 0.50 | -0.01 | -2.6% |
| SC-204.01 | 20 min | 4451 | 0.62 | 0.60 | 0.09 | 0.61 | 0.57 | 0.60 | 0.60 | 0.58 | 0.32 | 0.60 | -0.01 | -1.3% |
| SC-205.01 | 45 min | 4549 | 0.21 | 0.22 | 0.03 | 0.22 | 0.16 | 0.19 | 0.18 | 0.18 | 0.14 | 0.19 | -0.03 | -13.8% |
| SC-206.01 | 45 min | 4547 | 1.69 | 1.67 | 0.27 | 1.67 | 1.26 | 1.36 | 1.61 | 1.67 | 1.01 | 1.67 | 0.00 | 0.2% |
| SC-207.01 | 10 min | 4386 | 0.50 | 0.49 | 0.03 | 0.50 | 0.46 | 0.49 | 0.42 | 0.39 | 0.20 | 0.49 | -0.01 | -1.5% |
| SC-207.02 | 10 min | 4386 | 0.95 | 0.92 | 0.07 | 0.93 | 0.91 | 0.92 | 0.82 | 0.78 | 0.41 | 0.92 | -0.01 | -1.3% |
| SC-207.03 | 10 min | 4386 | 1.03 | 1.00 | 0.07 | 1.01 | 0.99 | 0.99 | 0.91 | 0.86 | 0.47 | 0.99 | -0.02 | -1.6% |
| SC-207.04 | 10 min | 4388 | 2.91 | 2.86 | 0.12 | 2.86 | 2.86 | 2.77 | 2.66 | 2.52 | 1.34 | 2.86 | 0.00 | -0.1% |
| SC-207.05 | 10 min | 4384 | 3.91 | 3.87 | 0.14 | 3.90 | 3.94 | 3.65 | 3.62 | 3.45 | 1.80 | 3.94 | 0.04 | 0.9% |
| SC-207.06 | 10 min | 4389 | 4.23 | 4.20 | 0.09 | 4.20 | 4.27 | 3.97 | 3.90 | 3.72 | 1.94 | 4.27 | 0.07 | 1.6% |
| SC-207.07 | 10 min | 4389 | 6.50 | 6.41 | 0.34 | 6.45 | 6.68 | 5.95 | 6.36 | 6.12 | 3.50 | 6.68 | 0.23 | 3.5% |
| SC-207.08 | 10 min | 4384 | 9.88 | 9.74 | 0.32 | 9.78 | 9.98 | 9.27 | 9.69 | 9.27 | 5.23 | 9.98 | 0.20 | 2.0% |
| SC-207.09 | 10 min | 4384 | 10.86 | 10.78 | 0.27 | 10.80 | 10.84 | 10.32 | 11.14 | 10.62 | 6.08 | 11.14 | 0.34 | 3.2% |
| SC-207.10 | 20 min | 4445 | 11.14 | 10.98 | 1.03 | 11.21 | 10.99 | 10.57 | 11.58 | 10.99 | 6.35 | 11.58 | 0.37 | 3.3% |
| SC-207.11 | 20 min | 4445 | 11.87 | 11.66 | 1.11 | 11.97 | 11.31 | 11.17 | 12.47 | 11.82 | 6.91 | 12.47 | 0.50 | 4.2% |
| SC-207.12 | 20 min | 4445 | 17.31 | 16.88 | 1.65 | 17.23 | 16.73 | 16.23 | 18.05 | 17.17 | 9.86 | 18.05 | 0.82 | 4.7% |
| SC-207.13 | 20 min | 4445 | 18.11 | 17.72 | 1.68 | 18.12 | 17.13 | 16.91 | 18.95 | 18.04 | 10.55 | 18.95 | 0.83 | 4.6% |
| SC-207.14 | 20 min | 4445 | 18.77 | 18.44 | 1.62 | 18.90 | 17.47 | 17.51 | 19.68 | 18.78 | 11.05 | 19.68 | 0.78 | 4.1% |
| SC-208.01 | 10 min | 4386 | 0.51 | 0.50 | 0.04 | 0.52 | 0.47 | 0.51 | 0.42 | 0.40 | 0.20 | 0.51 | -0.01 | -2.5% |
| SC-208.02 | 10 min | 4386 | 0.74 | 0.73 | 0.06 | 0.75 | 0.69 | 0.73 | 0.63 | 0.59 | 0.31 | 0.73 | -0.02 | -2.2% |
| SC-208.03 | 10 min | 4386 | 0.99 | 0.96 | 0.08 | 0.98 | 0.94 | 0.96 | 0.85 | 0.80 | 0.42 | 0.96 | -0.02 | -2.1% |
| SC-208.04 | 10 min | 4386 | 1.57 | 1.54 | 0.09 | 1.55 | 1.54 | 1.52 | 1.38 | 1.31 | 0.68 | 1.54 | -0.02 | -1.0% |
| SC-208.05 | 10 min | 4386 | 1.81 | 1.79 | 0.06 | 1.80 | 1.77 | 1.75 | 1.62 | 1.54 | 0.80 | 1.77 | -0.03 | -1.4% |
| SC-209.01 | 10 min | 4386 | 0.33 | 0.33 | 0.03 | 0.34 | 0.31 | 0.33 | 0.28 | 0.26 | 0.14 | 0.33 | -0.01 | -3.2% |
| SC-21.01 | 10 min | 4386 | 0.38 | 0.38 | 0.03 | 0.39 | 0.35 | 0.38 | 0.32 | 0.31 | 0.16 | 0.38 | -0.01 | -2.6% |
| SC-210.01 | 10 min | 4386 | 0.71 | 0.69 | 0.06 | 0.71 | 0.67 | 0.69 | 0.61 | 0.57 | 0.30 | 0.69 | -0.02 | -2.5% |
| SC-210.02 | 10 min | 4386 | 1.00 | 0.98 | 0.08 | 0.99 | 0.96 | 0.97 | 0.87 | 0.82 | 0.43 | 0.97 | -0.02 | -1.7% |
| SC-211.01 | 1 hour | 4581 | 0.20 | 0.20 | 0.04 | 0.21 | 0.14 | 0.17 | 0.15 | 0.16 | 0.16 | 0.17 | -0.04 | -19.6% |
| SC-211.02 | 45 min | 4551 | 0.45 | 0.46 | 0.05 | 0.46 | 0.23 | 0.31 | 0.30 | 0.38 | 0.36 | 0.38 | -0.08 | -17.6% |
| SC-211.03 | 1 hour | 4581 | 0.73 | 0.71 | 0.15 | 0.77 | 0.45 | 0.53 | 0.55 | 0.58 | 0.58 | 0.58 | -0.19 | -24.0% |
| SC-211.04 | 1 hour | 4581 | 0.88 | 0.85 | 0.18 | 0.92 | 0.61 | 0.68 | 0.73 | 0.71 | 0.69 | 0.73 | -0.19 | -20.9% |
| SC-212.01 | 2 hours | 4645 | 0.07 | 0.08 | 0.01 | 0.08 | 0.04 | 0.04 | 0.05 | 0.05 | 0.08 | 0.08 | 0.00 | -3.3% |
| SC-212.02 | 1 hour | 4581 | 0.15 | 0.15 | 0.03 | 0.15 | 0.11 | 0.12 | 0.12 | 0.12 | 0.14 | 0.14 | -0.01 | -9.8% |
| SC-213.01 | 10 min | 4386 | 0.30 | 0.29 | 0.02 | 0.30 | 0.27 | 0.29 | 0.25 | 0.23 | 0.12 | 0.29 | -0.01 | -2.7% |
| SC-213.02 | 10 min | 4386 | 0.49 | 0.48 | 0.04 | 0.48 | 0.47 | 0.47 | 0.43 | 0.40 | 0.21 | 0.47 | -0.01 | -1.1% |
| SC-214.01 | 10 min | 4386 | 0.36 | 0.36 | 0.03 | 0.36 | 0.33 | 0.36 | 0.31 | 0.29 | 0.15 | 0.36 | 0.00 | -0.7% |
| SC-214.02 | 10 min | 4386 | 0.78 | 0.77 | 0.06 | 0.79 | 0.72 | 0.78 | 0.66 | 0.62 | 0.32 | 0.78 | -0.01 | -1.7% |

## ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-215.01 | 10 min | 4386 | 0.30 | 0.29 | 0.02 | 0.30 | 0.28 | 0.29 | 0.26 | 0.24 | 0.13 | 0.29 | -0.01 | -2.4% |
| SC-215.02 | 10 min | 4386 | 0.54 | 0.52 | 0.04 | 0.52 | 0.52 | 0.52 | 0.47 | 0.45 | 0.24 | 0.52 | 0.00 | 0.4% |
| SC-216.01 | 10 min | 4386 | 0.27 | 0.27 | 0.02 | 0.27 | 0.25 | 0.27 | 0.23 | 0.21 | 0.11 | 0.27 | 0.00 | -0.3% |
| SC-216.02 | 10 min | 4386 | 0.86 | 0.85 | 0.06 | 0.87 | 0.79 | 0.86 | 0.70 | 0.66 | 0.34 | 0.86 | -0.01 | -1.4% |
| SC-216.03 | 10 min | 4386 | 1.35 | 1.32 | 0.10 | 1.35 | 1.28 | 1.33 | 1.14 | 1.07 | 0.56 | 1.33 | -0.03 | -1.9% |
| SC-216.04 | 10 min | 4390 | 1.88 | 1.86 | 0.09 | 1.87 | 1.78 | 1.88 | 1.63 | 1.56 | 0.81 | 1.88 | 0.01 | 0.4% |
| SC-217.01 | 10 min | 4387 | 0.20 | 0.20 | 0.02 | 0.20 | 0.18 | 0.20 | 0.16 | 0.15 | 0.08 | 0.20 | 0.00 | 1.8% |
| SC-218.01 | 10 min | 4382 | 0.15 | 0.15 | 0.01 | 0.15 | 0.13 | 0.16 | 0.12 | 0.12 | 0.06 | 0.16 | 0.01 | 5.7% |
| SC-219.01 | 10 min | 4387 | 0.20 | 0.20 | 0.02 | 0.20 | 0.18 | 0.20 | 0.16 | 0.16 | 0.08 | 0.20 | 0.00 | 1.8% |
| SC-22.01 | 10 min | 4387 | 0.22 | 0.22 | 0.02 | 0.22 | 0.20 | 0.22 | 0.18 | 0.17 | 0.09 | 0.22 | 0.00 | -0.5% |
| SC-220.01 | 10 min | 4386 | 0.30 | 0.29 | 0.02 | 0.30 | 0.28 | 0.29 | 0.25 | 0.24 | 0.12 | 0.29 | -0.01 | -3.0% |
| SC-221.01 | 10 min | 4386 | 0.28 | 0.27 | 0.02 | 0.28 | 0.25 | 0.27 | 0.23 | 0.22 | 0.12 | 0.27 | -0.01 | -2.9% |
| SC-221.02 | 10 min | 4386 | 0.61 | 0.59 | 0.04 | 0.60 | 0.58 | 0.59 | 0.54 | 0.51 | 0.27 | 0.59 | -0.01 | -1.3% |
| SC-221.03 | 10 min | 4386 | 0.75 | 0.73 | 0.05 | 0.74 | 0.73 | 0.73 | 0.66 | 0.63 | 0.33 | 0.73 | -0.01 | -1.2% |
| SC-221.04 | 10 min | 4386 | 1.10 | 1.07 | 0.08 | 1.08 | 1.07 | 1.06 | 0.96 | 0.91 | 0.48 | 1.07 | -0.02 | -1.4% |
| SC-221.05 | 10 min | 4386 | 1.42 | 1.39 | 0.09 | 1.40 | 1.38 | 1.37 | 1.26 | 1.20 | 0.63 | 1.38 | -0.02 | -1.7% |
| SC-221.06 | 10 min | 4386 | 1.50 | 1.47 | 0.08 | 1.49 | 1.45 | 1.46 | 1.34 | 1.26 | 0.68 | 1.46 | -0.03 | -2.3% |
| SC-222.01 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.29 | 0.28 | 0.29 | 0.25 | 0.24 | 0.13 | 0.29 | 0.00 | -1.2% |
| SC-222.02 | 10 min | 4386 | 0.48 | 0.46 | 0.04 | 0.47 | 0.46 | 0.46 | 0.43 | 0.40 | 0.21 | 0.46 | -0.01 | -2.0% |
| SC-222.03 | 20 min | 4451 | 0.97 | 0.97 | 0.16 | 0.97 | 0.93 | 0.85 | 0.96 | 0.94 | 0.51 | 0.96 | -0.01 | -1.4% |
| SC-223.01 | 10 min | 4382 | 0.13 | 0.13 | 0.01 | 0.13 | 0.12 | 0.14 | 0.11 | 0.10 | 0.05 | 0.14 | 0.01 | 4.8% |
| SC-224.01 | 45 min | 4553 | 0.29 | 0.30 | 0.05 | 0.30 | 0.12 | 0.23 | 0.26 | 0.24 | 0.17 | 0.26 | -0.04 | -12.3% |
| SC-225.01 | 10 min | 4386 | 0.24 | 0.23 | 0.02 | 0.24 | 0.23 | 0.23 | 0.21 | 0.19 | 0.10 | 0.23 | -0.01 | -3.0% |
| SC-226.01 | 10 min | 4382 | 0.18 | 0.18 | 0.01 | 0.18 | 0.16 | 0.19 | 0.15 | 0.14 | 0.07 | 0.19 | 0.01 | 4.1% |
| SC-226.02 | 10 min | 4386 | 0.42 | 0.41 | 0.03 | 0.41 | 0.40 | 0.41 | 0.37 | 0.35 | 0.18 | 0.41 | 0.00 | -1.0% |
| SC-226.03 | 10 min | 4388 | 0.86 | 0.84 | 0.07 | 0.84 | 0.84 | 0.83 | 0.77 | 0.74 | 0.38 | 0.84 | 0.00 | 0.3% |
| SC-226.04 | 10 min | 4388 | 1.31 | 1.28 | 0.10 | 1.28 | 1.28 | 1.25 | 1.16 | 1.10 | 0.58 | 1.28 | 0.00 | 0.3% |
| SC-226.05 | 10 min | 4386 | 5.08 | 4.96 | 0.37 | 4.98 | 4.93 | 4.88 | 4.62 | 4.37 | 2.36 | 4.93 | -0.05 | -0.9% |
| SC-226.06 | 10 min | 4386 | 5.59 | 5.49 | 0.28 | 5.52 | 5.46 | 5.40 | 5.12 | 4.84 | 2.61 | 5.46 | -0.06 | -1.1% |
| SC-226.07 | 10 min | 4387 | 5.94 | 5.91 | 0.25 | 5.99 | 5.71 | 5.84 | 5.49 | 5.25 | 2.85 | 5.84 | -0.15 | -2.6% |
| SC-226.08 | 10 min | 4386 | 6.09 | 6.04 | 0.24 | 6.12 | 5.86 | 5.95 | 5.76 | 5.50 | 2.99 | 5.95 | -0.17 | -2.8% |
| SC-227.01 | 10 min | 4387 | 0.10 | 0.09 | 0.01 | 0.10 | 0.08 | 0.10 | 0.08 | 0.08 | 0.04 | 0.10 | 0.00 | -3.4% |
| SC-228.01 | 10 min | 4387 | 0.20 | 0.20 | 0.02 | 0.20 | 0.18 | 0.20 | 0.17 | 0.16 | 0.08 | 0.20 | 0.00 | 1.6% |
| SC-229.01 | 10 min | 4387 | 0.14 | 0.14 | 0.01 | 0.14 | 0.13 | 0.14 | 0.12 | 0.11 | 0.06 | 0.14 | 0.00 | 1.3% |
| SC-23.01 | 10 min | 4386 | 0.28 | 0.28 | 0.02 | 0.28 | 0.26 | 0.28 | 0.24 | 0.22 | 0.12 | 0.28 | 0.00 | -0.3% |
| SC-23.02 | 10 min | 4388 | 0.83 | 0.81 | 0.06 | 0.81 | 0.81 | 0.79 | 0.75 | 0.71 | 0.37 | 0.81 | 0.00 | 0.6% |
| SC-23.03 | 10 min | 4388 | 1.03 | 1.00 | 0.08 | 1.00 | 1.00 | 0.99 | 0.93 | 0.89 | 0.46 | 1.00 | 0.00 | 0.3% |
| SC-230.01 | 10 min | 4386 | 0.14 | 0.13 | 0.01 | 0.14 | 0.13 | 0.13 | 0.12 | 0.11 | 0.06 | 0.13 | -0.01 | -4.2% |
| SC-231.01 | 10 min | 4386 | 0.15 | 0.15 | 0.01 | 0.15 | 0.14 | 0.15 | 0.13 | 0.12 | 0.07 | 0.15 | 0.00 | 1.2% |
| SC-232.01 | 10 min | 4386 | 0.40 | 0.39 | 0.03 | 0.40 | 0.37 | 0.40 | 0.33 | 0.31 | 0.17 | 0.40 | -0.01 | -1.3% |
| SC-232.02 | 10 min | 4386 | 0.61 | 0.59 | 0.05 | 0.60 | 0.59 | 0.59 | 0.53 | 0.50 | 0.27 | 0.59 | -0.01 | -1.4% |
| SC-232.03 | 10 min | 4386 | 1.40 | 1.37 | 0.11 | 1.37 | 1.37 | 1.35 | 1.24 | 1.18 | 0.62 | 1.37 | 0.00 | -0.1% |
| SC-233.01 | 10 min | 4386 | 0.26 | 0.26 | 0.02 | 0.27 | 0.24 | 0.26 | 0.22 | 0.21 | 0.11 | 0.26 | -0.01 | -3.1% |
| SC-233.02 | 10 min | 4386 | 0.44 | 0.43 | 0.03 | 0.43 | 0.42 | 0.43 | 0.39 | 0.37 | 0.20 | 0.43 | 0.00 | -0.7% |
| SC-234.01 | 10 min | 4386 | 0.38 | 0.36 | 0.03 | 0.37 | 0.36 | 0.36 | 0.33 | 0.31 | 0.16 | 0.36 | -0.01 | -1.7% |
| SC-234.02 | 10 min | 4386 | 0.76 | 0.74 | 0.05 | 0.75 | 0.73 | 0.74 | 0.67 | 0.64 | 0.33 | 0.74 | -0.01 | -1.4% |
| SC-234.03 | 10 min | 4388 | 2.19 | 2.14 | 0.17 | 2.14 | 2.14 | 2.10 | 1.96 | 1.86 | 1.02 | 2.14 | 0.00 | 0.2% |
| SC-235.01 | 10 min | 4382 | 0.15 | 0.14 | 0.01 | 0.14 | 0.13 | 0.15 | 0.12 | 0.11 | 0.06 | 0.15 | 0.01 | 6.4% |
| SC-236.01 | 10 min | 4387 | 0.19 | 0.18 | 0.01 | 0.19 | 0.17 | 0.19 | 0.15 | 0.14 | 0.07 | 0.19 | 0.00 | -1.5% |
| SC-236.02 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.29 | 0.26 | 0.29 | 0.24 | 0.22 | 0.12 | 0.29 | 0.00 | -0.7% |
| SC-237.01 | 10 min | 4386 | 0.24 | 0.24 | 0.02 | 0.25 | 0.22 | 0.24 | 0.21 | 0.20 | 0.10 | 0.24 | -0.01 | -3.3% |
| SC-237.02 | 10 min | 4386 | 0.50 | 0.49 | 0.04 | 0.49 | 0.49 | 0.49 | 0.46 | 0.44 | 0.26 | 0.49 | 0.00 | -0.7% |
| SC-238.01 | 10 min | 4382 | 0.16 | 0.16 | 0.01 | 0.16 | 0.15 | 0.17 | 0.13 | 0.13 | 0.06 | 0.17 | 0.01 | 4.8% |
| SC-238.02 | 10 min | 4386 | 0.38 | 0.37 | 0.03 | 0.38 | 0.36 | 0.37 | 0.32 | 0.31 | 0.16 | 0.37 | -0.01 | -2.2% |
| SC-239.01 | 10 min | 4387 | 0.21 | 0.21 | 0.02 | 0.21 | 0.19 | 0.21 | 0.17 | 0.17 | 0.09 | 0.21 | 0.00 | -0.1% |
| SC-24.01 | 10 min | 4386 | 0.25 | 0.24 | 0.02 | 0.25 | 0.23 | 0.25 | 0.21 | 0.20 | 0.10 | 0.25 | 0.00 | -1.7% |
| SC-240.01 | 45 min | 4551 | 0.39 | 0.40 | 0.05 | 0.40 | 0.23 | 0.30 | 0.29 | 0.31 | 0.28 | 0.31 | -0.09 | -23.0% |
| SC-240.02 | 45 min | 4548 | 0.60 | 0.61 | 0.08 | 0.61 | 0.41 | 0.47 | 0.58 | 0.57 | 0.43 | 0.58 | -0.03 | -4.2% |
| SC-241.01 | 45 min | 4553 | 1.91 | 1.92 | 0.31 | 1.92 | 0.90 | 1.51 | 1.75 | 1.66 | 1.11 | 1.75 | -0.17 | -8.9% |
| SC-242.01 | 10 min | 4386 | 0.30 | 0.29 | 0.02 | 0.30 | 0.28 | 0.29 | 0.25 | 0.23 | 0.13 | 0.29 | -0.01 | -2.1% |
| SC-242.02 | 10 min | 4388 | 0.75 | 0.73 | 0.06 | 0.73 | 0.73 | 0.72 | 0.66 | 0.62 | 0.33 | 0.73 | 0.00 | 0.2% |
| SC-242.03 | 10 min | 4388 | 1.11 | 1.09 | 0.09 | 1.09 | 1.09 | 1.06 | 0.99 | 0.93 | 0.49 | 1.09 | 0.00 | 0.2% |
| SC-242.04 | 10 min | 4388 | 1.18 | 1.15 | 0.09 | 1.16 | 1.16 | 1.13 | 1.05 | 0.99 | 0.53 | 1.16 | 0.00 | -0.2% |
| SC-242.05 | 10 min | 4388 | 2.59 | 2.58 | 0.18 | 2.59 | 2.59 | 2.43 | 2.35 | 2.22 | 1.17 | 2.59 | 0.00 | 0.0% |
| SC-242.06 | 10 min | 4391 | 3.39 | 3.37 | 0.22 | 3.42 | 3.43 | 3.12 | 3.14 | 2.98 | 1.55 | 3.43 | 0.01 | 0.3% |
| SC-242.07 | 10 min | 4384 | 3.50 | 3.44 | 0.23 | 3.50 | 3.56 | 3.21 | 3.37 | 3.21 | 1.69 | 3.56 | 0.06 | 1.6% |
| SC-242.08 | 45 min | 4547 | 5.70 | 5.87 | 0.74 | 5.87 | 5.22 | 4.65 | 6.03 | 5.87 | 3.31 | 6.03 | 0.16 | 2.7% |
| SC-243.01 | 10 min | 4386 | 0.27 | 0.26 | 0.02 | 0.27 | 0.25 | 0.26 | 0.23 | 0.21 | 0.11 | 0.26 | -0.01 | -3.3% |

## ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-243.02 | 10 min | 4386 | 0.99 | 0.96 | 0.07 | 0.98 | 0.95 | 0.97 | 0.87 | 0.82 | 0.43 | 0.97 | -0.01 | -1.5% |
| SC-244.01 | 10 min | 4386 | 0.37 | 0.36 | 0.03 | 0.37 | 0.35 | 0.36 | 0.32 | 0.30 | 0.15 | 0.36 | -0.01 | -2.8% |
| SC-245.01 | 10 min | 4387 | 0.20 | 0.20 | 0.02 | 0.21 | 0.18 | 0.20 | 0.17 | 0.16 | 0.08 | 0.20 | -0.01 | -2.8% |
| SC-246.01 | 10 min | 4386 | 0.13 | 0.13 | 0.01 | 0.13 | 0.13 | 0.13 | 0.12 | 0.11 | 0.06 | 0.13 | 0.00 | 0.5% |
| SC-246.02 | 20 min | 4450 | 0.31 | 0.31 | 0.06 | 0.32 | 0.29 | 0.24 | 0.32 | 0.32 | 0.16 | 0.32 | 0.00 | 0.4% |
| SC-247.01 | 10 min | 4386 | 0.35 | 0.34 | 0.03 | 0.35 | 0.32 | 0.35 | 0.31 | 0.30 | 0.16 | 0.35 | 0.00 | -1.4% |
| SC-247.02 | 20 min | 4450 | 0.72 | 0.72 | 0.16 | 0.73 | 0.63 | 0.56 | 0.73 | 0.73 | 0.42 | 0.73 | 0.00 | 0.0% |
| SC-248.01 | 45 min | 4553 | 0.35 | 0.34 | 0.06 | 0.34 | 0.20 | 0.27 | 0.33 | 0.33 | 0.20 | 0.33 | -0.01 | -2.1% |
| SC-249.01 | 45 min | 4551 | 0.07 | 0.07 | 0.01 | 0.07 | 0.04 | 0.05 | 0.05 | 0.06 | 0.05 | 0.06 | -0.01 | -15.0% |
| SC-249.02 | 20 min | 4451 | 0.27 | 0.26 | 0.04 | 0.26 | 0.27 | 0.24 | 0.26 | 0.25 | 0.16 | 0.27 | 0.01 | 2.0% |
| SC-249.03 | 10 min | 4391 | 0.63 | 0.63 | 0.05 | 0.63 | 0.63 | 0.58 | 0.60 | 0.57 | 0.33 | 0.63 | 0.00 | 0.5% |
| SC-249.04 | 10 min | 4388 | 1.62 | 1.61 | 0.13 | 1.61 | 1.61 | 1.52 | 1.48 | 1.40 | 0.79 | 1.61 | 0.00 | 0.1% |
| SC-249.05 | 10 min | 4391 | 4.68 | 4.66 | 0.34 | 4.71 | 4.73 | 4.34 | 4.40 | 4.19 | 2.29 | 4.73 | 0.02 | 0.4% |
| SC-249.06 | 20 min | 4451 | 6.72 | 6.51 | 0.96 | 6.55 | 6.37 | 5.65 | 6.86 | 6.73 | 3.98 | 6.86 | 0.31 | 4.7% |
| SC-25.01 | 10 min | 4387 | 0.75 | 0.75 | 0.06 | 0.76 | 0.68 | 0.76 | 0.62 | 0.59 | 0.31 | 0.76 | 0.00 | -0.6% |
| SC-25.02 | 10 min | 4386 | 1.08 | 1.06 | 0.08 | 1.08 | 1.02 | 1.06 | 0.93 | 0.88 | 0.46 | 1.06 | -0.02 | -1.5% |
| SC-25.03 | 10 min | 4386 | 1.19 | 1.17 | 0.09 | 1.19 | 1.11 | 1.17 | 1.01 | 0.96 | 0.50 | 1.17 | -0.02 | -1.4% |
| SC-25.04 | 10 min | 4386 | 1.95 | 1.90 | 0.14 | 1.92 | 1.87 | 1.89 | 1.71 | 1.62 | 0.86 | 1.89 | -0.03 | -1.8% |
| SC-250.01 | 10 min | 4386 | 0.09 | 0.09 | 0.01 | 0.09 | 0.09 | 0.09 | 0.08 | 0.07 | 0.04 | 0.09 | 0.00 | -3.2% |
| SC-251.01 | 10 min | 4386 | 0.21 | 0.21 | 0.02 | 0.21 | 0.20 | 0.21 | 0.18 | 0.17 | 0.09 | 0.21 | 0.00 | -1.2% |
| SC-252.01 | 10 min | 4386 | 0.24 | 0.23 | 0.02 | 0.24 | 0.22 | 0.23 | 0.21 | 0.20 | 0.11 | 0.23 | -0.01 | -3.5% |
| SC-252.02 | 10 min | 4386 | 0.45 | 0.44 | 0.03 | 0.45 | 0.41 | 0.45 | 0.38 | 0.36 | 0.20 | 0.45 | 0.00 | -1.1% |
| SC-253.01 | 10 min | 4386 | 0.35 | 0.34 | 0.03 | 0.34 | 0.33 | 0.34 | 0.30 | 0.28 | 0.15 | 0.34 | 0.00 | -1.2% |
| SC-253.02 | 10 min | 4386 | 1.28 | 1.25 | 0.10 | 1.25 | 1.24 | 1.23 | 1.14 | 1.07 | 0.57 | 1.24 | -0.01 | -0.6% |
| SC-253.03 | 10 min | 4386 | 1.57 | 1.53 | 0.13 | 1.53 | 1.53 | 1.50 | 1.38 | 1.30 | 0.70 | 1.53 | 0.00 | -0.2% |
| SC-254.01 | 10 min | 4386 | 0.35 | 0.35 | 0.02 | 0.35 | 0.34 | 0.35 | 0.31 | 0.29 | 0.15 | 0.35 | 0.00 | -0.6% |
| SC-255.01 | 10 min | 4386 | 0.32 | 0.31 | 0.02 | 0.31 | 0.31 | 0.31 | 0.28 | 0.27 | 0.16 | 0.31 | 0.00 | -0.3% |
| SC-256.01 | 10 min | 4386 | 0.29 | 0.28 | 0.02 | 0.29 | 0.27 | 0.28 | 0.25 | 0.24 | 0.13 | 0.28 | -0.01 | -2.7% |
| SC-257.01 | 10 min | 4382 | 0.17 | 0.17 | 0.01 | 0.17 | 0.15 | 0.17 | 0.14 | 0.14 | 0.07 | 0.17 | 0.00 | 2.2% |
| SC-258.01 | 10 min | 4387 | 0.75 | 0.74 | 0.06 | 0.75 | 0.68 | 0.76 | 0.68 | 0.65 | 0.33 | 0.76 | 0.01 | 0.9% |
| SC-258.02 | 20 min | 4451 | 1.11 | 1.12 | 0.19 | 1.14 | 1.00 | 0.99 | 1.10 | 1.08 | 0.60 | 1.10 | -0.04 | -3.3% |
| SC-259.01 | 10 min | 4386 | 0.33 | 0.32 | 0.03 | 0.33 | 0.32 | 0.32 | 0.29 | 0.27 | 0.14 | 0.32 | -0.01 | -2.5% |
| SC-259.02 | 10 min | 4388 | 0.70 | 0.69 | 0.05 | 0.69 | 0.69 | 0.67 | 0.62 | 0.58 | 0.31 | 0.69 | 0.00 | -0.2% |
| SC-259.03 | 10 min | 4388 | 0.99 | 0.97 | 0.08 | 0.97 | 0.97 | 0.93 | 0.88 | 0.82 | 0.44 | 0.97 | 0.00 | -0.1% |
| SC-259.04 | 10 min | 4388 | 1.81 | 1.77 | 0.14 | 1.77 | 1.77 | 1.74 | 1.59 | 1.50 | 0.80 | 1.77 | 0.00 | 0.0% |
| SC-259.05 | 10 min | 4388 | 2.22 | 2.18 | 0.16 | 2.18 | 2.18 | 2.11 | 1.96 | 1.85 | 0.98 | 2.18 | 0.00 | 0.1% |
| SC-259.06 | 10 min | 4388 | 2.84 | 2.78 | 0.19 | 2.79 | 2.79 | 2.71 | 2.53 | 2.38 | 1.27 | 2.79 | 0.00 | -0.1% |
| SC-259.07 | 10 min | 4385 | 3.63 | 3.65 | 0.14 | 3.67 | 3.56 | 3.61 | 3.29 | 3.17 | 1.65 | 3.61 | -0.06 | -1.7% |
| SC-259.08 | 10 min | 4385 | 4.11 | 4.15 | 0.16 | 4.17 | 4.03 | 4.08 | 3.91 | 3.79 | 1.90 | 4.08 | -0.09 | -2.2% |
| SC-259.09 | 20 min | 4446 | 9.48 | 9.25 | 1.07 | 9.30 | 9.06 | 9.10 | 9.84 | 9.55 | 5.37 | 9.84 | 0.54 | 5.8% |
| SC-259.10 | 20 min | 4446 | 9.69 | 9.46 | 1.07 | 9.49 | 9.23 | 9.29 | 10.11 | 9.79 | 5.49 | 10.11 | 0.62 | 6.5% |
| SC-26.01 | 10 min | 4386 | 0.23 | 0.23 | 0.02 | 0.23 | 0.21 | 0.23 | 0.20 | 0.19 | 0.10 | 0.23 | 0.00 | 0.3% |
| SC-260.01 | 10 min | 4386 | 0.22 | 0.22 | 0.02 | 0.22 | 0.20 | 0.22 | 0.19 | 0.17 | 0.09 | 0.22 | 0.00 | -0.3% |
| SC-261.01 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.29 | 0.27 | 0.29 | 0.24 | 0.23 | 0.12 | 0.29 | 0.00 | -1.2% |
| SC-262.01 | 10 min | 4386 | 0.31 | 0.30 | 0.02 | 0.30 | 0.29 | 0.30 | 0.27 | 0.25 | 0.13 | 0.30 | 0.00 | -0.5% |
| SC-262.02 | 10 min | 4386 | 0.59 | 0.57 | 0.04 | 0.58 | 0.56 | 0.57 | 0.51 | 0.48 | 0.25 | 0.57 | -0.01 | -1.5% |
| SC-263.01 | 10 min | 4386 | 0.33 | 0.32 | 0.02 | 0.32 | 0.31 | 0.32 | 0.29 | 0.27 | 0.14 | 0.32 | 0.00 | -0.6% |
| SC-264.01 | 10 min | 4387 | 0.19 | 0.19 | 0.01 | 0.19 | 0.17 | 0.19 | 0.16 | 0.15 | 0.08 | 0.19 | 0.00 | 2.1% |
| SC-265.01 | 10 min | 4386 | 0.24 | 0.24 | 0.02 | 0.24 | 0.23 | 0.24 | 0.21 | 0.20 | 0.11 | 0.24 | 0.00 | -0.6% |
| SC-265.02 | 20 min | 4451 | 0.55 | 0.54 | 0.08 | 0.56 | 0.52 | 0.50 | 0.51 | 0.52 | 0.32 | 0.52 | -0.04 | -6.4% |
| SC-265.03 | 45 min | 4553 | 0.88 | 0.89 | 0.13 | 0.89 | 0.65 | 0.66 | 0.83 | 0.83 | 0.55 | 0.83 | -0.06 | -6.8% |
| SC-265.04 | 20 min | 4446 | 4.31 | 4.10 | 0.53 | 4.16 | 4.00 | 3.89 | 4.34 | 4.22 | 2.58 | 4.34 | 0.18 | 4.4% |
| SC-266.01 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.29 | 0.28 | 0.28 | 0.26 | 0.25 | 0.15 | 0.28 | -0.01 | -2.2% |
| SC-266.02 | 10 min | 4386 | 0.59 | 0.57 | 0.04 | 0.59 | 0.56 | 0.58 | 0.53 | 0.50 | 0.29 | 0.58 | -0.01 | -2.2% |
| SC-266.03 | 10 min | 4386 | 0.73 | 0.71 | 0.05 | 0.72 | 0.69 | 0.71 | 0.64 | 0.60 | 0.35 | 0.71 | -0.01 | -1.5% |
| SC-266.04 | 10 min | 4388 | 2.65 | 2.59 | 0.19 | 2.60 | 2.60 | 2.52 | 2.47 | 2.35 | 1.39 | 2.60 | 0.00 | -0.1% |
| SC-266.05 | 10 min | 4386 | 3.03 | 2.98 | 0.14 | 2.99 | 2.98 | 2.92 | 2.84 | 2.71 | 1.62 | 2.98 | -0.01 | -0.5% |
| SC-267.01 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.29 | 0.27 | 0.29 | 0.25 | 0.24 | 0.12 | 0.29 | 0.00 | -0.7% |
| SC-268.01 | 10 min | 4386 | 0.49 | 0.48 | 0.04 | 0.48 | 0.47 | 0.47 | 0.43 | 0.40 | 0.22 | 0.47 | -0.01 | -1.9% |
| SC-268.02 | 10 min | 4386 | 1.29 | 1.25 | 0.10 | 1.27 | 1.23 | 1.25 | 1.14 | 1.08 | 0.63 | 1.25 | -0.02 | -1.7% |
| SC-269.01 | 10 min | 4387 | 0.19 | 0.19 | 0.01 | 0.20 | 0.18 | 0.20 | 0.18 | 0.17 | 0.11 | 0.20 | 0.00 | -2.3% |
| SC-27.01 | 10 min | 4386 | 0.23 | 0.23 | 0.02 | 0.23 | 0.21 | 0.23 | 0.21 | 0.20 | 0.11 | 0.23 | 0.00 | 0.3% |
| SC-270.01 | 20 min | 4449 | 0.21 | 0.20 | 0.04 | 0.20 | 0.17 | 0.18 | 0.18 | 0.18 | 0.12 | 0.18 | -0.02 | -8.2% |
| SC-271.01 | 20 min | 4452 | 0.13 | 0.12 | 0.02 | 0.13 | 0.11 | 0.12 | 0.12 | 0.12 | 0.07 | 0.12 | -0.01 | -9.3% |
| SC-272.01 | 20 min | 4452 | 0.30 | 0.29 | 0.05 | 0.29 | 0.26 | 0.26 | 0.27 | 0.27 | 0.19 | 0.27 | -0.02 | -6.3% |
| SC-272.02 | 20 min | 4450 | 0.65 | 0.63 | 0.13 | 0.65 | 0.58 | 0.51 | 0.65 | 0.64 | 0.40 | 0.65 | 0.00 | 0.5% |
| SC-272.03 | 20 min | 4450 | 1.06 | 1.04 | 0.22 | 1.09 | 0.96 | 0.82 | 1.09 | 1.08 | 0.62 | 1.09 | 0.00 | 0.2% |
| SC-273.01 | 20 min | 4452 | 0.31 | 0.31 | 0.06 | 0.31 | 0.26 | 0.25 | 0.32 | 0.32 | 0.16 | 0.32 | 0.01 | 4.0% |

## ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-274.01 | 1 hour | 4574 | 0.14 | 0.14 | 0.03 | 0.15 | 0.12 | 0.11 | 0.12 | 0.12 | 0.11 | 0.12 | -0.03 | -19.0% |
| SC-274.02 | 10 min | 4388 | 0.69 | 0.68 | 0.06 | 0.68 | 0.68 | 0.65 | 0.63 | 0.60 | 0.36 | 0.68 | 0.00 | 0.6% |
| SC-274.03 | 10 min | 4386 | 1.68 | 1.64 | 0.13 | 1.65 | 1.63 | 1.63 | 1.50 | 1.42 | 0.80 | 1.63 | -0.02 | -1.3% |
| SC-274.04 | 10 min | 4386 | 2.19 | 2.14 | 0.17 | 2.15 | 2.13 | 2.11 | 1.94 | 1.85 | 1.03 | 2.13 | -0.02 | -1.1% |
| SC-274.05 | 20 min | 4450 | 2.66 | 2.55 | 0.39 | 2.60 | 2.68 | 2.45 | 2.60 | 2.48 | 1.35 | 2.68 | 0.08 | 3.1% |
| SC-275.01 | 10 min | 4386 | 0.32 | 0.31 | 0.02 | 0.32 | 0.31 | 0.31 | 0.28 | 0.26 | 0.14 | 0.31 | -0.01 | -2.2% |
| SC-276.01 | 10 min | 4386 | 0.24 | 0.24 | 0.02 | 0.24 | 0.22 | 0.24 | 0.20 | 0.19 | 0.10 | 0.24 | 0.00 | -0.5% |
| SC-277.01 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.30 | 0.27 | 0.29 | 0.26 | 0.25 | 0.13 | 0.29 | -0.01 | -2.9% |
| SC-278.01 | 10 min | 4387 | 0.19 | 0.19 | 0.01 | 0.19 | 0.17 | 0.19 | 0.15 | 0.15 | 0.08 | 0.19 | 0.00 | -0.3% |
| SC-278.02 | 20 min | 4449 | 1.93 | 1.94 | 0.44 | 1.95 | 1.46 | 1.51 | 1.92 | 1.96 | 1.13 | 1.96 | 0.01 | 0.3% |
| SC-279.01 | 20 min | 4452 | 0.29 | 0.28 | 0.05 | 0.29 | 0.26 | 0.27 | 0.27 | 0.27 | 0.15 | 0.27 | -0.02 | -6.7% |
| SC-279.02 | 20 min | 4452 | 1.84 | 1.86 | 0.46 | 1.91 | 1.45 | 1.40 | 1.93 | 1.95 | 1.07 | 1.95 | 0.04 | 2.2% |
| SC-28.01 | 45 min | 4549 | 0.16 | 0.18 | 0.03 | 0.18 | 0.07 | 0.14 | 0.14 | 0.13 | 0.10 | 0.14 | -0.04 | -22.9% |
| SC-28.02 | 20 min | 4452 | 0.41 | 0.40 | 0.06 | 0.42 | 0.37 | 0.36 | 0.37 | 0.37 | 0.25 | 0.37 | -0.05 | -10.8% |
| SC-28.03 | 20 min | 4451 | 0.61 | 0.58 | 0.08 | 0.60 | 0.58 | 0.57 | 0.57 | 0.55 | 0.34 | 0.58 | -0.02 | -2.9% |
| SC-28.04 | 10 min | 4386 | 1.37 | 1.34 | 0.10 | 1.35 | 1.33 | 1.33 | 1.26 | 1.21 | 0.69 | 1.33 | -0.02 | -1.3% |
| SC-280.01 | 10 min | 4386 | 0.28 | 0.28 | 0.02 | 0.28 | 0.27 | 0.28 | 0.25 | 0.24 | 0.14 | 0.28 | 0.00 | -0.5% |
| SC-29.01 | 10 min | 4386 | 0.23 | 0.23 | 0.02 | 0.23 | 0.21 | 0.23 | 0.19 | 0.19 | 0.09 | 0.23 | 0.00 | 0.3% |
| SC-29.02 | 10 min | 4386 | 0.65 | 0.63 | 0.04 | 0.64 | 0.61 | 0.63 | 0.56 | 0.53 | 0.28 | 0.63 | -0.01 | -0.8% |
| SC-3.01 | 20 min | 4448 | 0.25 | 0.24 | 0.03 | 0.24 | 0.23 | 0.25 | 0.23 | 0.22 | 0.13 | 0.25 | 0.01 | 2.1% |
| SC-3.02 | 20 min | 4451 | 0.82 | 0.79 | 0.11 | 0.80 | 0.79 | 0.78 | 0.75 | 0.73 | 0.45 | 0.79 | -0.01 | -1.8% |
| SC-30.01 | 10 min | 4386 | 0.40 | 0.40 | 0.03 | 0.41 | 0.37 | 0.40 | 0.34 | 0.32 | 0.17 | 0.40 | -0.01 | -3.0% |
| SC-30.02 | 10 min | 4386 | 0.74 | 0.72 | 0.05 | 0.73 | 0.71 | 0.72 | 0.66 | 0.62 | 0.32 | 0.72 | -0.01 | -2.0% |
| SC-30.03 | 10 min | 4386 | 1.02 | 0.99 | 0.08 | 1.00 | 0.99 | 0.98 | 0.91 | 0.87 | 0.45 | 0.99 | -0.01 | -0.8% |
| SC-30.04 | 10 min | 4386 | 1.30 | 1.27 | 0.10 | 1.28 | 1.27 | 1.25 | 1.16 | 1.10 | 0.58 | 1.27 | -0.01 | -0.9% |
| SC-31.01 | 10 min | 4386 | 0.26 | 0.26 | 0.02 | 0.26 | 0.24 | 0.26 | 0.24 | 0.23 | 0.12 | 0.26 | 0.00 | -0.8% |
| SC-31.02 | 10 min | 4386 | 0.56 | 0.55 | 0.04 | 0.55 | 0.55 | 0.54 | 0.51 | 0.49 | 0.26 | 0.55 | 0.00 | -0.1% |
| SC-32.01 | 45 min | 4553 | 0.21 | 0.21 | 0.03 | 0.21 | 0.13 | 0.17 | 0.19 | 0.19 | 0.12 | 0.19 | -0.02 | -8.5% |
| SC-32.02 | 45 min | 4553 | 0.30 | 0.31 | 0.04 | 0.31 | 0.19 | 0.25 | 0.26 | 0.26 | 0.18 | 0.26 | -0.05 | -15.6% |
| SC-33.01 | 10 min | 4386 | 0.34 | 0.33 | 0.03 | 0.34 | 0.31 | 0.34 | 0.29 | 0.27 | 0.14 | 0.34 | 0.00 | -1.2% |
| SC-33.02 | 10 min | 4386 | 0.79 | 0.76 | 0.06 | 0.77 | 0.76 | 0.76 | 0.69 | 0.66 | 0.35 | 0.76 | -0.01 | -1.6% |
| SC-34.01 | 10 min | 4386 | 0.26 | 0.26 | 0.02 | 0.26 | 0.24 | 0.26 | 0.24 | 0.23 | 0.12 | 0.26 | 0.00 | -0.6% |
| SC-34.02 | 10 min | 4386 | 0.52 | 0.51 | 0.04 | 0.53 | 0.48 | 0.52 | 0.48 | 0.46 | 0.24 | 0.52 | -0.01 | -2.5% |
| SC-34.03 | 10 min | 4386 | 0.64 | 0.63 | 0.05 | 0.65 | 0.59 | 0.63 | 0.55 | 0.53 | 0.29 | 0.63 | -0.02 | -2.4% |
| SC-35.01 | 10 min | 4386 | 0.25 | 0.25 | 0.02 | 0.25 | 0.23 | 0.25 | 0.21 | 0.19 | 0.10 | 0.25 | 0.00 | -1.1% |
| SC-35.02 | 10 min | 4386 | 0.71 | 0.70 | 0.05 | 0.71 | 0.67 | 0.70 | 0.60 | 0.56 | 0.29 | 0.70 | -0.01 | -1.6% |
| SC-35.03 | 10 min | 4386 | 1.14 | 1.12 | 0.07 | 1.14 | 1.08 | 1.12 | 0.96 | 0.90 | 0.46 | 1.12 | -0.02 | -1.4% |
| SC-35.04 | 10 min | 4386 | 1.23 | 1.20 | 0.08 | 1.23 | 1.16 | 1.21 | 1.03 | 0.96 | 0.49 | 1.21 | -0.02 | -2.0% |
| SC-36.01 | 10 min | 4386 | 0.52 | 0.51 | 0.04 | 0.52 | 0.48 | 0.51 | 0.44 | 0.41 | 0.22 | 0.51 | -0.01 | -2.1% |
| SC-36.02 | 10 min | 4386 | 0.93 | 0.91 | 0.08 | 0.94 | 0.86 | 0.92 | 0.78 | 0.75 | 0.39 | 0.92 | -0.02 | -2.1% |
| SC-37.01 | 10 min | 4387 | 0.20 | 0.20 | 0.02 | 0.21 | 0.18 | 0.21 | 0.17 | 0.16 | 0.08 | 0.21 | 0.00 | -1.5% |
| SC-37.02 | 10 min | 4386 | 0.56 | 0.55 | 0.04 | 0.57 | 0.53 | 0.56 | 0.49 | 0.47 | 0.24 | 0.56 | -0.01 | -2.2% |
| SC-38.01 | 10 min | 4386 | 0.23 | 0.23 | 0.02 | 0.24 | 0.21 | 0.23 | 0.20 | 0.19 | 0.10 | 0.23 | -0.01 | -2.5% |
| SC-39.01 | 10 min | 4382 | 0.14 | 0.14 | 0.01 | 0.14 | 0.12 | 0.14 | 0.12 | 0.11 | 0.06 | 0.14 | 0.00 | 2.1% |
| SC-4.01 | 45 min | 4553 | 0.25 | 0.26 | 0.04 | 0.26 | 0.20 | 0.22 | 0.23 | 0.24 | 0.16 | 0.24 | -0.02 | -7.8% |
| SC-40.01 | 10 min | 4386 | 0.32 | 0.31 | 0.02 | 0.32 | 0.30 | 0.31 | 0.27 | 0.25 | 0.13 | 0.31 | -0.01 | -2.9% |
| SC-41.01 | 10 min | 4387 | 0.21 | 0.21 | 0.02 | 0.22 | 0.19 | 0.21 | 0.17 | 0.16 | 0.08 | 0.21 | -0.01 | -2.4% |
| SC-42.01 | 10 min | 4386 | 0.70 | 0.69 | 0.06 | 0.70 | 0.66 | 0.69 | 0.59 | 0.56 | 0.28 | 0.69 | -0.01 | -1.5% |
| SC-43.01 | 10 min | 4382 | 0.16 | 0.16 | 0.01 | 0.16 | 0.14 | 0.16 | 0.12 | 0.12 | 0.06 | 0.16 | 0.00 | 1.8% |
| SC-44.01 | 10 min | 4386 | 0.48 | 0.47 | 0.04 | 0.48 | 0.45 | 0.47 | 0.41 | 0.39 | 0.20 | 0.47 | -0.01 | -1.6% |
| SC-44.02 | 10 min | 4386 | 0.78 | 0.76 | 0.06 | 0.78 | 0.75 | 0.76 | 0.69 | 0.65 | 0.34 | 0.76 | -0.02 | -2.3% |
| SC-44.03 | 10 min | 4386 | 1.06 | 1.04 | 0.08 | 1.04 | 1.03 | 1.02 | 0.95 | 0.90 | 0.47 | 1.03 | -0.01 | -1.0% |
| SC-44.04 | 10 min | 4386 | 1.60 | 1.56 | 0.13 | 1.56 | 1.55 | 1.53 | 1.44 | 1.36 | 0.73 | 1.55 | -0.01 | -0.4% |
| SC-44.05 | 10 min | 4388 | 2.83 | 2.78 | 0.19 | 2.78 | 2.78 | 2.72 | 2.54 | 2.42 | 1.29 | 2.78 | 0.00 | 0.0% |
| SC-44.06 | 10 min | 4386 | 3.00 | 2.94 | 0.16 | 2.97 | 2.92 | 2.90 | 2.72 | 2.58 | 1.39 | 2.92 | -0.05 | -1.7% |
| SC-44.07 | 20 min | 4445 | 2.49 | 2.47 | 0.11 | 2.49 | 2.46 | 2.40 | 2.57 | 2.49 | 1.50 | 2.57 | 0.08 | 3.2% |
| SC-44.08 | 10 min | 4389 | 3.27 | 3.26 | 0.07 | 3.27 | 3.32 | 3.16 | 3.39 | 3.31 | 1.88 | 3.39 | 0.12 | 3.7% |
| SC-44.09 | 20 min | 4449 | 3.53 | 3.53 | 0.18 | 3.53 | 3.44 | 3.36 | 3.69 | 3.59 | 2.09 | 3.69 | 0.16 | 4.5% |
| SC-44.10 | 20 min | 4551 | 0.66 | 0.66 | 0.09 | 0.66 | 0.59 | 0.64 | 0.64 | 0.66 | 0.68 | 0.68 | 0.02 | 2.5% |
| SC-44.11 | 20 min | 4551 | 4.04 | 3.75 | 0.96 | 3.81 | 0.65 | 1.18 | 1.18 | 1.49 | 4.37 | 4.37 | 0.56 | 14.8% |
| SC-44.12 | 20 min | 4545 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| SC-44.13 | 20 min | 4551 | 0.14 | 0.15 | 0.02 | 0.15 | 0.00 | 0.03 | 0.03 | 0.12 | 0.16 | 0.16 | 0.01 | 8.8% |
| SC-44.14 | 20 min | 4551 | 0.71 | 0.69 | 0.10 | 0.72 | 0.04 | 0.08 | 0.08 | 0.38 | 0.79 | 0.79 | 0.07 | 10.3% |
| SC-44.15 | 15 min | 4547 | 1.91 | 1.90 | 0.06 | 1.92 | 1.82 | 1.77 | 1.98 | 1.96 | 1.75 | 1.98 | 0.06 | 3.3% |
| SC-44.16 | 45 min | 4547 | 1.96 | 2.01 | 0.14 | 2.01 | 1.83 | 1.81 | 2.02 | 2.01 | 1.79 | 2.02 | 0.01 | 0.5% |
| SC-44.17 | 20 min | 4451 | 4.56 | 4.50 | 0.32 | 4.57 | 4.61 | 4.20 | 4.68 | 4.60 | 2.93 | 4.68 | 0.11 | 2.3% |
| SC-44.18 | 20 min | 4451 | 4.69 | 4.61 | 0.31 | 4.62 | 4.64 | 4.33 | 4.85 | 4.72 | 3.08 | 4.85 | 0.23 | 5.0% |
| SC-44.19 | 20 min | 4449 | 5.17 | 5.08 | 0.35 | 5.10 | 5.03 | 4.86 | 5.34 | 5.19 | 3.37 | 5.34 | 0.24 | 4.7% |

## ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-44.20 | 45 min | 4547 | 5.09 | 5.11 | 0.44 | 5.11 | 4.41 | 4.44 | 5.28 | 5.11 | 3.53 | 5.28 | 0.17 | 3.2% |
| SC-45.01 | 10 min | 4386 | 0.34 | 0.34 | 0.03 | 0.34 | 0.32 | 0.34 | 0.30 | 0.29 | 0.16 | 0.34 | 0.00 | -0.8% |
| SC-46.01 | 10 min | 4386 | 0.29 | 0.28 | 0.02 | 0.29 | 0.27 | 0.28 | 0.25 | 0.23 | 0.12 | 0.28 | -0.01 | -2.0% |
| SC-46.02 | 10 min | 4386 | 0.50 | 0.49 | 0.04 | 0.49 | 0.48 | 0.49 | 0.45 | 0.42 | 0.22 | 0.49 | 0.00 | -0.9% |
| SC-46.03 | 10 min | 4386 | 0.75 | 0.73 | 0.06 | 0.73 | 0.73 | 0.72 | 0.67 | 0.64 | 0.34 | 0.73 | 0.00 | 0.3% |
| SC-46.04 | 10 min | 4388 | 0.85 | 0.83 | 0.07 | 0.83 | 0.83 | 0.81 | 0.76 | 0.73 | 0.38 | 0.83 | 0.00 | 0.5% |
| SC-47.01 | 10 min | 4386 | 0.47 | 0.45 | 0.04 | 0.46 | 0.44 | 0.45 | 0.40 | 0.38 | 0.20 | 0.45 | -0.01 | -1.9% |
| SC-48.01 | 10 min | 4386 | 0.35 | 0.34 | 0.03 | 0.35 | 0.33 | 0.34 | 0.30 | 0.28 | 0.15 | 0.34 | -0.01 | -1.8% |
| SC-48.02 | 10 min | 4386 | 0.56 | 0.55 | 0.04 | 0.55 | 0.55 | 0.54 | 0.51 | 0.49 | 0.25 | 0.55 | 0.00 | -0.6% |
| SC-49.01 | 10 min | 4386 | 0.41 | 0.40 | 0.03 | 0.41 | 0.37 | 0.40 | 0.34 | 0.32 | 0.17 | 0.40 | -0.01 | -1.4% |
| SC-5.01 | 10 min | 4386 | 0.24 | 0.24 | 0.02 | 0.25 | 0.23 | 0.24 | 0.22 | 0.21 | 0.11 | 0.24 | -0.01 | -2.7% |
| SC-50.01 | 10 min | 4386 | 0.14 | 0.14 | 0.01 | 0.14 | 0.13 | 0.14 | 0.13 | 0.13 | 0.06 | 0.14 | 0.00 | -2.9% |
| SC-51.01 | 10 min | 4382 | 0.15 | 0.14 | 0.01 | 0.14 | 0.13 | 0.15 | 0.12 | 0.12 | 0.06 | 0.15 | 0.01 | 5.7% |
| SC-52.01 | 10 min | 4382 | 0.15 | 0.15 | 0.01 | 0.15 | 0.13 | 0.15 | 0.13 | 0.12 | 0.06 | 0.15 | 0.00 | 0.5% |
| SC-53.01 | 10 min | 4386 | 0.34 | 0.33 | 0.03 | 0.34 | 0.32 | 0.33 | 0.29 | 0.27 | 0.14 | 0.33 | -0.01 | -1.8% |
| SC-53.02 | 10 min | 4388 | 0.71 | 0.69 | 0.05 | 0.69 | 0.69 | 0.67 | 0.64 | 0.61 | 0.32 | 0.69 | 0.00 | 0.5% |
| SC-53.03 | 10 min | 4386 | 0.87 | 0.84 | 0.07 | 0.85 | 0.84 | 0.83 | 0.76 | 0.73 | 0.38 | 0.84 | -0.01 | -1.1% |
| SC-54.01 | 10 min | 4386 | 0.28 | 0.28 | 0.02 | 0.28 | 0.26 | 0.28 | 0.24 | 0.22 | 0.12 | 0.28 | 0.00 | -1.1% |
| SC-54.02 | 10 min | 4386 | 0.54 | 0.53 | 0.04 | 0.53 | 0.53 | 0.52 | 0.49 | 0.46 | 0.24 | 0.53 | 0.00 | -0.8% |
| SC-55.01 | 10 min | 4386 | 0.44 | 0.43 | 0.04 | 0.44 | 0.40 | 0.43 | 0.37 | 0.35 | 0.18 | 0.43 | -0.01 | -1.8% |
| SC-56.01 | 10 min | 4387 | 0.20 | 0.20 | 0.01 | 0.20 | 0.19 | 0.20 | 0.18 | 0.18 | 0.09 | 0.20 | 0.00 | 0.4% |
| SC-57.01 | 20 min | 4448 | 0.14 | 0.14 | 0.02 | 0.14 | 0.13 | 0.14 | 0.13 | 0.13 | 0.07 | 0.14 | 0.00 | -2.6% |
| SC-58.01 | 10 min | 4386 | 0.28 | 0.27 | 0.02 | 0.28 | 0.27 | 0.27 | 0.24 | 0.23 | 0.12 | 0.27 | -0.01 | -2.8% |
| SC-59.01 | 10 min | 4386 | 0.37 | 0.36 | 0.03 | 0.36 | 0.36 | 0.36 | 0.33 | 0.31 | 0.17 | 0.36 | 0.00 | -0.3% |
| SC-59.02 | 10 min | 4388 | 0.73 | 0.71 | 0.05 | 0.72 | 0.72 | 0.70 | 0.66 | 0.62 | 0.33 | 0.72 | 0.00 | -0.5% |
| SC-59.03 | 10 min | 4388 | 1.06 | 1.04 | 0.08 | 1.04 | 1.04 | 1.01 | 0.96 | 0.91 | 0.48 | 1.04 | 0.00 | -0.1% |
| SC-59.04 | 10 min | 4388 | 1.35 | 1.32 | 0.11 | 1.33 | 1.33 | 1.28 | 1.22 | 1.16 | 0.62 | 1.33 | 0.00 | -0.2% |
| SC-59.05 | 10 min | 4388 | 2.83 | 2.78 | 0.19 | 2.79 | 2.79 | 2.69 | 2.63 | 2.51 | 1.37 | 2.79 | 0.00 | 0.0% |
| SC-59.06 | 10 min | 4388 | 3.30 | 3.29 | 0.20 | 3.30 | 3.30 | 3.10 | 3.08 | 2.95 | 1.61 | 3.30 | 0.00 | 0.0% |
| SC-59.07 | 10 min | 4391 | 5.50 | 5.49 | 0.38 | 5.49 | 5.52 | 5.10 | 5.22 | 5.01 | 2.79 | 5.52 | 0.03 | 0.5% |
| SC-59.08 | 45 min | 4547 | 4.97 | 5.09 | 0.75 | 5.09 | 4.03 | 3.75 | 5.29 | 5.09 | 3.01 | 5.29 | 0.20 | 4.0% |
| SC-59.09 | 45 min | 4553 | 6.04 | 6.08 | 0.91 | 6.08 | 2.89 | 4.32 | 5.98 | 5.73 | 3.66 | 5.98 | -0.10 | -1.6% |
| SC-59.10 | 2 hours | 4643 | 4.09 | 3.66 | 1.23 | 3.73 | 0.49 | 0.77 | 0.78 | 2.98 | 3.73 | 3.73 | 0.00 | -0.1% |
| SC-6.01 | 10 min | 4386 | 0.32 | 0.32 | 0.03 | 0.32 | 0.30 | 0.32 | 0.27 | 0.26 | 0.13 | 0.32 | 0.00 | -0.3% |
| SC-60.01 | 20 min | 4451 | 0.23 | 0.23 | 0.03 | 0.23 | 0.21 | 0.22 | 0.21 | 0.21 | 0.12 | 0.22 | -0.01 | -3.6% |
| SC-60.02 | 10 min | 4386 | 0.99 | 0.97 | 0.07 | 0.99 | 0.94 | 0.97 | 0.91 | 0.89 | 0.49 | 0.97 | -0.02 | -1.9% |
| SC-61.01 | 15 min | 4418 | 0.52 | 0.52 | 0.06 | 0.54 | 0.48 | 0.51 | 0.49 | 0.48 | 0.25 | 0.51 | -0.03 | -5.1% |
| SC-62.01 | 10 min | 4386 | 0.34 | 0.33 | 0.03 | 0.34 | 0.31 | 0.33 | 0.29 | 0.27 | 0.14 | 0.33 | -0.01 | -1.6% |
| SC-63.01 | 20 min | 4451 | 0.17 | 0.17 | 0.03 | 0.17 | 0.16 | 0.17 | 0.16 | 0.16 | 0.09 | 0.17 | 0.00 | -2.1% |
| SC-64.01 | 10 min | 4386 | 0.25 | 0.25 | 0.02 | 0.25 | 0.24 | 0.25 | 0.22 | 0.20 | 0.11 | 0.25 | 0.00 | -1.0% |
| SC-64.02 | 10 min | 4388 | 0.85 | 0.84 | 0.07 | 0.84 | 0.84 | 0.80 | 0.77 | 0.73 | 0.40 | 0.84 | 0.00 | -0.2% |
| SC-64.03 | 10 min | 4388 | 1.60 | 1.57 | 0.12 | 1.57 | 1.57 | 1.52 | 1.44 | 1.36 | 0.73 | 1.57 | 0.00 | 0.3% |
| SC-64.04 | 10 min | 4388 | 2.17 | 2.14 | 0.16 | 2.15 | 2.15 | 2.06 | 2.03 | 1.93 | 1.08 | 2.15 | 0.00 | -0.2% |
| SC-65.01 | 10 min | 4386 | 0.20 | 0.20 | 0.01 | 0.20 | 0.18 | 0.20 | 0.17 | 0.16 | 0.09 | 0.20 | 0.00 | -1.9% |
| SC-66.01 | 10 min | 4387 | 0.16 | 0.16 | 0.01 | 0.16 | 0.14 | 0.16 | 0.14 | 0.14 | 0.07 | 0.16 | 0.00 | -0.8% |
| SC-66.02 | 20 min | 4449 | 0.32 | 0.31 | 0.06 | 0.31 | 0.29 | 0.26 | 0.30 | 0.30 | 0.19 | 0.30 | -0.01 | -2.2% |
| SC-67.01 | 10 min | 4386 | 0.28 | 0.28 | 0.02 | 0.29 | 0.26 | 0.28 | 0.24 | 0.23 | 0.12 | 0.28 | -0.01 | -3.1% |
| SC-68.01 | 10 min | 4386 | 0.39 | 0.38 | 0.03 | 0.39 | 0.36 | 0.38 | 0.33 | 0.31 | 0.16 | 0.38 | -0.01 | -1.6% |
| SC-68.02 | 10 min | 4386 | 0.74 | 0.73 | 0.05 | 0.73 | 0.72 | 0.72 | 0.66 | 0.63 | 0.32 | 0.72 | -0.01 | -1.4% |
| SC-68.03 | 10 min | 4386 | 1.35 | 1.32 | 0.11 | 1.34 | 1.29 | 1.31 | 1.18 | 1.12 | 0.58 | 1.31 | -0.03 | -2.0% |
| SC-69.01 | 10 min | 4386 | 0.33 | 0.33 | 0.03 | 0.34 | 0.31 | 0.33 | 0.28 | 0.26 | 0.13 | 0.33 | -0.01 | -2.8% |
| SC-7.01 | 10 min | 4386 | 0.42 | 0.41 | 0.03 | 0.42 | 0.40 | 0.41 | 0.37 | 0.35 | 0.20 | 0.41 | -0.01 | -2.2% |
| SC-70.01 | 10 min | 4386 | 0.31 | 0.31 | 0.03 | 0.31 | 0.28 | 0.31 | 0.26 | 0.25 | 0.13 | 0.31 | 0.00 | -0.7% |
| SC-70.02 | 10 min | 4386 | 0.49 | 0.48 | 0.04 | 0.49 | 0.47 | 0.48 | 0.44 | 0.41 | 0.21 | 0.48 | -0.01 | -1.3% |
| SC-71.01 | 10 min | 4386 | 0.38 | 0.38 | 0.03 | 0.38 | 0.36 | 0.38 | 0.32 | 0.31 | 0.16 | 0.38 | 0.00 | -0.7% |
| SC-71.02 | 10 min | 4386 | 0.74 | 0.73 | 0.05 | 0.73 | 0.72 | 0.72 | 0.66 | 0.63 | 0.33 | 0.72 | -0.01 | -1.3% |
| SC-72.01 | 10 min | 4386 | 0.41 | 0.41 | 0.03 | 0.42 | 0.38 | 0.41 | 0.35 | 0.33 | 0.17 | 0.41 | -0.01 | -2.7% |
| SC-73.01 | 10 min | 4386 | 0.33 | 0.32 | 0.03 | 0.33 | 0.31 | 0.32 | 0.28 | 0.27 | 0.14 | 0.32 | -0.01 | -2.5% |
| SC-74.01 | 10 min | 4386 | 0.38 | 0.37 | 0.03 | 0.38 | 0.36 | 0.38 | 0.33 | 0.31 | 0.16 | 0.38 | 0.00 | -1.3% |
| SC-75.01 | 20 min | 4448 | 0.22 | 0.21 | 0.03 | 0.22 | 0.20 | 0.22 | 0.21 | 0.20 | 0.11 | 0.22 | 0.00 | -1.0% |
| SC-75.02 | 20 min | 4451 | 0.87 | 0.84 | 0.12 | 0.86 | 0.85 | 0.82 | 0.81 | 0.78 | 0.44 | 0.85 | -0.01 | -1.7% |
| SC-75.03 | 10 min | 4386 | 1.30 | 1.27 | 0.09 | 1.28 | 1.26 | 1.26 | 1.21 | 1.16 | 0.64 | 1.26 | -0.02 | -1.6% |
| SC-75.04 | 10 min | 4388 | 2.30 | 2.26 | 0.17 | 2.26 | 2.26 | 2.21 | 2.13 | 2.03 | 1.11 | 2.26 | 0.00 | 0.0% |
| SC-76.01 | 20 min | 4452 | 0.28 | 0.27 | 0.05 | 0.27 | 0.24 | 0.24 | 0.26 | 0.27 | 0.15 | 0.27 | 0.00 | -1.5% |
| SC-77.01 | 10 min | 4386 | 0.46 | 0.45 | 0.04 | 0.46 | 0.42 | 0.45 | 0.38 | 0.36 | 0.19 | 0.45 | -0.01 | -2.5% |
| SC-77.02 | 10 min | 4386 | 0.69 | 0.68 | 0.06 | 0.70 | 0.64 | 0.69 | 0.59 | 0.56 | 0.29 | 0.69 | -0.01 | -2.0% |
| SC-77.03 | 10 min | 4386 | 0.99 | 0.96 | 0.07 | 0.98 | 0.93 | 0.97 | 0.85 | 0.81 | 0.42 | 0.97 | -0.01 | -1.3% |
| SC-78.01 | 10 min | 4386 | 0.43 | 0.42 | 0.04 | 0.43 | 0.40 | 0.42 | 0.36 | 0.34 | 0.18 | 0.42 | -0.01 | -1.9% |

## ARR2019 Results for 20%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4388 | 4448 | 4450 | 4547 | 4643 | | $m^3/s$ | % |
| SC-79.01 | 10 min | 4386 | 0.49 | 0.49 | 0.04 | 0.50 | 0.45 | 0.49 | 0.41 | 0.39 | 0.21 | 0.49 | -0.01 | -1.7% |
| SC-79.02 | 10 min | 4386 | 0.91 | 0.89 | 0.06 | 0.90 | 0.87 | 0.89 | 0.78 | 0.73 | 0.40 | 0.89 | -0.01 | -1.3% |
| SC-79.03 | 10 min | 4386 | 1.94 | 1.90 | 0.14 | 1.90 | 1.89 | 1.86 | 1.72 | 1.62 | 0.87 | 1.89 | -0.01 | -0.5% |
| SC-8.01 | 10 min | 4386 | 0.35 | 0.35 | 0.03 | 0.35 | 0.33 | 0.35 | 0.31 | 0.30 | 0.16 | 0.35 | 0.00 | -0.9% |
| SC-8.02 | 10 min | 4388 | 0.88 | 0.86 | 0.07 | 0.86 | 0.86 | 0.84 | 0.80 | 0.76 | 0.41 | 0.86 | 0.00 | 0.1% |
| SC-8.03 | 10 min | 4388 | 2.30 | 2.26 | 0.18 | 2.27 | 2.27 | 2.19 | 2.07 | 1.97 | 1.06 | 2.27 | 0.00 | -0.1% |
| SC-8.04 | 10 min | 4388 | 4.05 | 3.95 | 0.33 | 3.96 | 3.96 | 3.87 | 3.63 | 3.44 | 1.85 | 3.96 | 0.00 | -0.1% |
| SC-8.05 | 10 min | 4386 | 4.44 | 4.34 | 0.29 | 4.39 | 4.29 | 4.30 | 3.97 | 3.75 | 2.06 | 4.30 | -0.09 | -2.0% |
| SC-8.06 | 10 min | 4386 | 4.63 | 4.55 | 0.25 | 4.63 | 4.47 | 4.53 | 4.12 | 3.93 | 2.15 | 4.53 | -0.10 | -2.2% |
| SC-80.01 | 10 min | 4386 | 0.45 | 0.45 | 0.04 | 0.46 | 0.41 | 0.45 | 0.38 | 0.36 | 0.19 | 0.45 | -0.01 | -2.3% |
| SC-80.02 | 10 min | 4386 | 0.91 | 0.88 | 0.07 | 0.89 | 0.87 | 0.88 | 0.80 | 0.76 | 0.40 | 0.88 | -0.01 | -1.4% |
| SC-81.01 | 10 min | 4386 | 0.33 | 0.32 | 0.02 | 0.33 | 0.31 | 0.32 | 0.29 | 0.28 | 0.15 | 0.32 | -0.01 | -1.9% |
| SC-81.02 | 10 min | 4386 | 0.98 | 0.96 | 0.07 | 0.98 | 0.93 | 0.96 | 0.87 | 0.83 | 0.44 | 0.96 | -0.02 | -1.8% |
| SC-82.01 | 10 min | 4386 | 0.40 | 0.39 | 0.03 | 0.40 | 0.37 | 0.39 | 0.34 | 0.32 | 0.17 | 0.39 | -0.01 | -1.8% |
| SC-83.01 | 10 min | 4386 | 0.25 | 0.25 | 0.02 | 0.25 | 0.23 | 0.25 | 0.22 | 0.20 | 0.11 | 0.25 | 0.00 | 0.6% |
| SC-84.01 | 10 min | 4386 | 0.37 | 0.37 | 0.03 | 0.38 | 0.35 | 0.37 | 0.32 | 0.30 | 0.16 | 0.37 | -0.01 | -2.7% |
| SC-84.02 | 10 min | 4386 | 0.93 | 0.90 | 0.07 | 0.92 | 0.87 | 0.91 | 0.80 | 0.76 | 0.40 | 0.91 | -0.01 | -1.4% |
| SC-84.03 | 10 min | 4386 | 1.22 | 1.18 | 0.10 | 1.20 | 1.16 | 1.18 | 1.08 | 1.02 | 0.54 | 1.18 | -0.02 | -1.9% |
| SC-84.04 | 10 min | 4386 | 1.45 | 1.41 | 0.12 | 1.43 | 1.39 | 1.40 | 1.28 | 1.21 | 0.64 | 1.40 | -0.03 | -2.0% |
| SC-84.05 | 10 min | 4386 | 1.73 | 1.70 | 0.10 | 1.73 | 1.67 | 1.69 | 1.54 | 1.47 | 0.77 | 1.69 | -0.04 | -2.1% |
| SC-84.06 | 10 min | 4386 | 1.94 | 1.91 | 0.08 | 1.93 | 1.89 | 1.88 | 1.72 | 1.65 | 0.87 | 1.89 | -0.04 | -2.3% |
| SC-85.01 | 10 min | 4386 | 0.24 | 0.24 | 0.02 | 0.24 | 0.22 | 0.24 | 0.20 | 0.19 | 0.10 | 0.24 | 0.00 | -1.0% |
| SC-86.01 | 10 min | 4386 | 0.35 | 0.34 | 0.03 | 0.35 | 0.33 | 0.34 | 0.30 | 0.29 | 0.15 | 0.34 | -0.01 | -3.2% |
| SC-86.02 | 10 min | 4386 | 0.70 | 0.68 | 0.06 | 0.70 | 0.65 | 0.68 | 0.60 | 0.57 | 0.34 | 0.68 | -0.02 | -2.4% |
| SC-87.01 | 10 min | 4386 | 0.52 | 0.51 | 0.04 | 0.53 | 0.48 | 0.52 | 0.44 | 0.42 | 0.22 | 0.52 | -0.01 | -2.5% |
| SC-87.02 | 10 min | 4386 | 0.91 | 0.89 | 0.07 | 0.91 | 0.85 | 0.89 | 0.78 | 0.74 | 0.39 | 0.89 | -0.02 | -1.8% |
| SC-88.01 | 10 min | 4386 | 0.24 | 0.24 | 0.02 | 0.24 | 0.22 | 0.24 | 0.20 | 0.19 | 0.10 | 0.24 | 0.00 | -1.5% |
| SC-88.02 | 10 min | 4386 | 0.39 | 0.38 | 0.03 | 0.38 | 0.37 | 0.38 | 0.34 | 0.32 | 0.18 | 0.38 | 0.00 | -0.6% |
| SC-89.01 | 10 min | 4386 | 0.26 | 0.25 | 0.02 | 0.26 | 0.24 | 0.25 | 0.22 | 0.21 | 0.11 | 0.25 | -0.01 | -3.4% |
| SC-89.02 | 10 min | 4386 | 0.28 | 0.27 | 0.02 | 0.28 | 0.27 | 0.27 | 0.25 | 0.24 | 0.13 | 0.27 | -0.01 | -2.3% |
| SC-9.01 | 10 min | 4386 | 0.33 | 0.32 | 0.03 | 0.33 | 0.31 | 0.33 | 0.28 | 0.27 | 0.14 | 0.33 | 0.00 | -1.2% |
| SC-90.01 | 10 min | 4386 | 0.10 | 0.10 | 0.01 | 0.10 | 0.10 | 0.10 | 0.09 | 0.08 | 0.05 | 0.10 | 0.00 | -1.7% |
| SC-91.01 | 10 min | 4386 | 0.30 | 0.30 | 0.02 | 0.30 | 0.28 | 0.30 | 0.25 | 0.24 | 0.12 | 0.30 | 0.00 | -0.6% |
| SC-91.02 | 10 min | 4386 | 0.64 | 0.62 | 0.05 | 0.62 | 0.61 | 0.61 | 0.55 | 0.52 | 0.27 | 0.61 | -0.01 | -1.0% |
| SC-92.01 | 10 min | 4386 | 0.29 | 0.29 | 0.02 | 0.30 | 0.28 | 0.29 | 0.26 | 0.25 | 0.13 | 0.29 | -0.01 | -3.3% |
| SC-92.02 | 10 min | 4386 | 0.84 | 0.82 | 0.06 | 0.83 | 0.82 | 0.81 | 0.76 | 0.72 | 0.40 | 0.82 | -0.01 | -1.1% |
| SC-93.01 | 10 min | 4386 | 0.32 | 0.32 | 0.03 | 0.32 | 0.30 | 0.32 | 0.28 | 0.26 | 0.14 | 0.32 | 0.00 | -0.4% |
| SC-94.01 | 10 min | 4386 | 0.36 | 0.36 | 0.03 | 0.37 | 0.34 | 0.36 | 0.30 | 0.29 | 0.15 | 0.36 | -0.01 | -2.9% |
| SC-94.02 | 10 min | 4386 | 0.87 | 0.84 | 0.07 | 0.85 | 0.83 | 0.84 | 0.75 | 0.71 | 0.37 | 0.84 | -0.01 | -1.5% |
| SC-95.01 | 10 min | 4387 | 0.22 | 0.22 | 0.02 | 0.22 | 0.20 | 0.22 | 0.18 | 0.17 | 0.08 | 0.22 | 0.00 | 0.8% |
| SC-95.02 | 10 min | 4386 | 0.53 | 0.53 | 0.04 | 0.53 | 0.50 | 0.53 | 0.44 | 0.42 | 0.21 | 0.53 | 0.00 | -0.5% |
| SC-96.01 | 10 min | 4386 | 0.24 | 0.24 | 0.02 | 0.25 | 0.22 | 0.24 | 0.20 | 0.19 | 0.10 | 0.24 | -0.01 | -3.1% |
| SC-97.01 | 10 min | 4387 | 0.17 | 0.17 | 0.01 | 0.17 | 0.15 | 0.17 | 0.13 | 0.13 | 0.06 | 0.17 | 0.00 | -0.3% |
| SC-97.02 | 10 min | 4386 | 0.97 | 0.95 | 0.08 | 0.96 | 0.94 | 0.94 | 0.86 | 0.81 | 0.43 | 0.94 | -0.02 | -1.6% |
| SC-98.01 | 10 min | 4386 | 0.28 | 0.27 | 0.02 | 0.28 | 0.26 | 0.27 | 0.24 | 0.23 | 0.12 | 0.27 | -0.01 | -2.7% |
| SC-99.01 | 10 min | 4386 | 0.28 | 0.27 | 0.02 | 0.28 | 0.25 | 0.27 | 0.23 | 0.22 | 0.11 | 0.27 | -0.01 | -2.4% |
| SC-99.02 | 10 min | 4388 | 0.73 | 0.73 | 0.06 | 0.73 | 0.73 | 0.69 | 0.68 | 0.64 | 0.33 | 0.73 | 0.00 | 0.3% |
| SC-99.03 | 10 min | 4388 | 1.28 | 1.27 | 0.10 | 1.27 | 1.27 | 1.22 | 1.18 | 1.11 | 0.58 | 1.27 | 0.00 | -0.2% |
| SC-99.04 | 10 min | 4386 | 3.41 | 3.33 | 0.24 | 3.36 | 3.31 | 3.29 | 3.06 | 2.90 | 1.56 | 3.31 | -0.05 | -1.6% |
| Dummy1 | 20 min | 4449 | 15.05 | 14.50 | 1.94 | 14.66 | 13.94 | 13.40 | 16.16 | 15.58 | 8.83 | 16.16 | 1.50 | 10.3% |
| Dummy2 | 45 min | 4552 | 26.75 | 26.92 | 2.30 | 26.92 | 19.30 | 25.33 | 23.64 | 26.59 | 17.87 | 26.59 | -0.34 | -1.2% |
| Dummy3 | 45 min | 4547 | 55.00 | 55.30 | 3.29 | 55.30 | 40.01 | 47.80 | 50.81 | 55.30 | 42.42 | 55.30 | 0.00 | 0.0% |
| DummyOut | 45 min | 4547 | 56.62 | 57.46 | 3.44 | 57.46 | 40.32 | 48.46 | 51.27 | 57.46 | 57.75 | 57.75 | 0.28 | 0.5% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-1.01 | 15 min | 4413 | 0.64 | 0.66 | 0.06 | 0.67 | 0.59 | 0.68 | 0.60 | 0.47 | 0.42 | 0.68 | 0.01 | 0.9% |
| SC-1.02 | 15 min | 4413 | 1.39 | 1.44 | 0.13 | 1.44 | 1.29 | 1.48 | 1.32 | 1.02 | 0.91 | 1.48 | 0.04 | 2.8% |
| SC-1.03 | 15 min | 4413 | 1.66 | 1.70 | 0.15 | 1.72 | 1.54 | 1.73 | 1.54 | 1.21 | 1.09 | 1.73 | 0.01 | 0.6% |
| SC-1.04 | 15 min | 4413 | 4.44 | 4.54 | 0.39 | 4.66 | 3.92 | 4.82 | 4.32 | 3.29 | 2.93 | 4.82 | 0.16 | 3.5% |
| SC-1.05 | 15 min | 4411 | 4.78 | 4.86 | 0.38 | 4.95 | 4.32 | 5.09 | 4.58 | 3.56 | 3.19 | 5.09 | 0.14 | 2.8% |
| SC-1.06 | 15 min | 4411 | 5.45 | 5.53 | 0.39 | 5.61 | 5.06 | 5.83 | 5.31 | 4.10 | 3.65 | 5.83 | 0.22 | 3.8% |
| SC-1.07 | 15 min | 4411 | 5.53 | 5.61 | 0.36 | 5.62 | 5.21 | 5.84 | 5.33 | 4.17 | 3.73 | 5.84 | 0.22 | 4.0% |
| SC-1.08 | 1 hour | 4565 | 5.43 | 5.42 | 0.73 | 5.62 | 1.23 | 2.72 | 3.87 | 5.62 | 4.01 | 5.62 | 0.00 | 0.0% |
| SC-1.09 | 1 hour | 4565 | 5.81 | 5.91 | 0.63 | 6.04 | 2.95 | 3.47 | 3.98 | 6.04 | 4.43 | 6.04 | 0.00 | 0.1% |
| SC-1.10 | 1 hour | 4565 | 5.87 | 6.00 | 0.61 | 6.12 | 3.30 | 3.73 | 3.99 | 6.12 | 4.50 | 6.12 | 0.00 | 0.0% |
| SC-1.11 | 15 min | 4411 | 9.90 | 10.02 | 0.65 | 10.16 | 9.35 | 10.58 | 9.54 | 8.53 | 6.89 | 10.58 | 0.42 | 4.2% |
| SC-1.12 | 15 min | 4411 | 12.22 | 12.22 | 0.78 | 12.36 | 11.64 | 13.02 | 11.89 | 10.03 | 8.42 | 13.02 | 0.66 | 5.4% |
| SC-1.13 | 15 min | 4412 | 13.64 | 13.48 | 0.74 | 13.52 | 13.45 | 14.29 | 13.49 | 11.14 | 9.54 | 14.29 | 0.77 | 5.7% |
| SC-1.14 | 10 min | 4374 | 16.18 | 16.14 | 0.16 | 16.16 | 16.05 | 16.93 | 16.14 | 12.75 | 11.29 | 16.93 | 0.77 | 4.8% |
| SC-1.15 | 15 min | 4412 | 17.63 | 17.50 | 0.95 | 17.72 | 17.48 | 18.40 | 17.55 | 13.66 | 12.27 | 18.40 | 0.68 | 3.8% |
| SC-1.16 | 15 min | 4414 | 19.97 | 19.86 | 0.92 | 19.90 | 18.28 | 19.49 | 19.65 | 16.06 | 14.14 | 19.65 | -0.25 | -1.2% |
| SC-1.17 | 15 min | 4414 | 20.27 | 20.22 | 0.94 | 20.29 | 18.36 | 19.62 | 19.90 | 16.54 | 14.43 | 19.90 | -0.39 | -1.9% |
| SC-1.18 | 30 min | 4509 | 14.55 | 14.63 | 0.55 | 14.77 | 13.38 | 14.20 | 14.51 | 14.53 | 12.49 | 14.53 | -0.24 | -1.6% |
| SC-1.19 | 1 hour | 4573 | 13.88 | 13.38 | 1.23 | 13.52 | 9.00 | 10.16 | 11.01 | 15.58 | 11.90 | 15.58 | 2.06 | 15.2% |
| SC-1.20 | 1 hour | 4573 | 13.49 | 13.00 | 1.00 | 13.06 | 8.68 | 9.91 | 10.78 | 14.92 | 12.20 | 14.92 | 1.86 | 14.2% |
| SC-1.21 | 1 hour | 4563 | 13.55 | 13.07 | 0.97 | 13.08 | 8.69 | 9.91 | 10.79 | 14.93 | 12.96 | 14.93 | 1.85 | 14.1% |
| SC-1.22 | 1 hour | 4563 | 13.82 | 13.56 | 0.79 | 13.77 | 8.70 | 9.93 | 10.81 | 14.98 | 14.00 | 14.98 | 1.21 | 8.8% |
| SC-1.23 | 1 hour | 4475 | 16.99 | 16.48 | 1.35 | 16.49 | 13.29 | 14.97 | 16.21 | 16.35 | 17.29 | 17.29 | 0.80 | 4.8% |
| SC-1.24 | 1 hour | 4568 | 23.72 | 24.03 | 2.95 | 25.12 | 21.99 | 23.18 | 24.45 | 22.94 | 21.17 | 24.45 | -0.67 | -2.7% |
| SC-1.25 | 1 hour | 4568 | 24.17 | 24.65 | 3.04 | 25.89 | 22.27 | 23.31 | 24.53 | 23.40 | 21.48 | 24.53 | -1.36 | -5.2% |
| SC-1.26 | 1 hour | 4568 | 25.64 | 26.45 | 3.38 | 28.15 | 22.63 | 23.71 | 24.84 | 24.75 | 22.33 | 24.84 | -3.31 | -11.8% |
| SC-1.27 | 1 hour | 4568 | 26.04 | 26.92 | 3.47 | 28.70 | 22.88 | 24.01 | 25.10 | 25.13 | 22.65 | 25.13 | -3.57 | -12.4% |
| SC-1.28 | 1 hour | 4569 | 33.62 | 34.92 | 5.09 | 35.14 | 27.90 | 33.53 | 33.14 | 34.70 | 28.83 | 34.70 | -0.44 | -1.2% |
| SC-1.29 | 1 hour | 4565 | 35.62 | 36.90 | 5.34 | 37.52 | 28.38 | 34.65 | 34.27 | 37.52 | 30.50 | 37.52 | 0.00 | 0.0% |
| SC-1.30 | 1 hour | 4565 | 36.22 | 37.39 | 5.38 | 38.21 | 28.58 | 35.01 | 34.93 | 38.21 | 31.07 | 38.21 | 0.00 | 0.0% |
| SC-1.31 | 1 hour | 4573 | 36.63 | 37.65 | 5.41 | 38.51 | 28.73 | 35.25 | 35.41 | 38.66 | 31.51 | 38.66 | 0.15 | 0.4% |
| SC-1.32 | 30 min | 4513 | 37.26 | 37.83 | 1.83 | 37.96 | 28.96 | 35.61 | 36.04 | 39.31 | 32.18 | 39.31 | 1.35 | 3.6% |
| SC-1.33 | 30 min | 4509 | 38.71 | 38.94 | 1.16 | 39.05 | 29.23 | 36.03 | 36.79 | 40.62 | 33.74 | 40.62 | 1.57 | 4.0% |
| SC-1.34 | 30 min | 4509 | 38.86 | 39.13 | 1.09 | 39.24 | 29.25 | 36.06 | 36.84 | 40.91 | 34.15 | 40.91 | 1.67 | 4.3% |
| SC-1.35 | 30 min | 4511 | 39.07 | 39.34 | 1.00 | 39.37 | 29.29 | 36.12 | 36.94 | 41.21 | 34.53 | 41.21 | 1.84 | 4.7% |
| SC-1.36 | 45 min | 4541 | 40.76 | 40.15 | 2.79 | 40.25 | 29.50 | 36.42 | 37.45 | 43.03 | 36.79 | 43.03 | 2.78 | 6.9% |
| SC-10.01 | 15 min | 4416 | 0.66 | 0.67 | 0.07 | 0.67 | 0.64 | 0.68 | 0.57 | 0.42 | 0.42 | 0.68 | 0.01 | 1.0% |
| SC-100.01 | 15 min | 4415 | 0.77 | 0.76 | 0.09 | 0.77 | 0.75 | 0.77 | 0.64 | 0.47 | 0.49 | 0.77 | 0.00 | -0.5% |
| SC-100.02 | 15 min | 4381 | 1.35 | 1.37 | 0.13 | 1.37 | 1.28 | 1.38 | 1.16 | 0.86 | 0.85 | 1.38 | 0.01 | 0.9% |
| SC-101.01 | 15 min | 4413 | 0.82 | 0.84 | 0.08 | 0.84 | 0.77 | 0.87 | 0.73 | 0.54 | 0.52 | 0.87 | 0.03 | 3.5% |
| SC-101.02 | 15 min | 4411 | 1.46 | 1.50 | 0.13 | 1.52 | 1.32 | 1.58 | 1.34 | 0.98 | 0.93 | 1.58 | 0.06 | 3.9% |
| SC-102.01 | 15 min | 4415 | 0.64 | 0.64 | 0.07 | 0.65 | 0.62 | 0.65 | 0.54 | 0.40 | 0.40 | 0.65 | -0.01 | -0.8% |
| SC-102.02 | 15 min | 4411 | 2.48 | 2.52 | 0.20 | 2.53 | 2.24 | 2.63 | 2.23 | 1.63 | 1.56 | 2.63 | 0.10 | 3.8% |
| SC-103.01 | 15 min | 4415 | 0.43 | 0.43 | 0.05 | 0.43 | 0.42 | 0.43 | 0.36 | 0.26 | 0.27 | 0.43 | 0.00 | 0.5% |
| SC-103.02 | 15 min | 4411 | 1.53 | 1.56 | 0.13 | 1.57 | 1.39 | 1.63 | 1.35 | 0.99 | 0.96 | 1.63 | 0.06 | 3.6% |
| SC-104.01 | 15 min | 4415 | 0.39 | 0.39 | 0.04 | 0.39 | 0.37 | 0.39 | 0.33 | 0.24 | 0.25 | 0.39 | 0.00 | 1.2% |
| SC-105.01 | 15 min | 4415 | 0.41 | 0.43 | 0.04 | 0.43 | 0.40 | 0.43 | 0.35 | 0.26 | 0.26 | 0.43 | 0.00 | -0.9% |
| SC-105.02 | 15 min | 4411 | 1.00 | 1.01 | 0.08 | 1.03 | 0.88 | 1.08 | 0.89 | 0.66 | 0.63 | 1.08 | 0.04 | 4.4% |
| SC-105.03 | 15 min | 4411 | 2.33 | 2.37 | 0.19 | 2.41 | 2.06 | 2.51 | 2.08 | 1.53 | 1.47 | 2.51 | 0.10 | 4.1% |
| SC-105.04 | 15 min | 4411 | 3.15 | 3.20 | 0.26 | 3.24 | 2.81 | 3.37 | 2.83 | 2.08 | 1.96 | 3.37 | 0.13 | 4.0% |
| SC-105.05 | 15 min | 4411 | 3.78 | 3.85 | 0.31 | 3.94 | 3.33 | 4.09 | 3.51 | 2.58 | 2.40 | 4.09 | 0.15 | 3.9% |
| SC-105.06 | 15 min | 4409 | 4.00 | 4.05 | 0.33 | 4.12 | 3.50 | 4.38 | 3.89 | 2.87 | 2.62 | 4.38 | 0.26 | 6.3% |
| SC-105.07 | 15 min | 4409 | 5.86 | 5.98 | 0.39 | 6.08 | 5.30 | 6.29 | 5.76 | 4.41 | 3.95 | 6.29 | 0.21 | 3.4% |
| SC-105.08 | 15 min | 4415 | 6.54 | 6.58 | 0.31 | 6.74 | 6.26 | 6.74 | 6.39 | 5.00 | 4.54 | 6.74 | 0.00 | 0.0% |
| SC-105.09 | 10 min | 4372 | 8.76 | 8.73 | 0.09 | 8.74 | 8.76 | 8.39 | 8.47 | 6.38 | 5.89 | 8.76 | 0.02 | 0.3% |
| SC-106.01 | 15 min | 4415 | 0.30 | 0.30 | 0.03 | 0.31 | 0.29 | 0.31 | 0.25 | 0.19 | 0.19 | 0.31 | 0.00 | -1.5% |
| SC-107.01 | 15 min | 4415 | 0.53 | 0.54 | 0.05 | 0.54 | 0.51 | 0.54 | 0.45 | 0.33 | 0.34 | 0.54 | 0.00 | 0.7% |
| SC-108.01 | 15 min | 4415 | 0.38 | 0.38 | 0.04 | 0.38 | 0.37 | 0.38 | 0.32 | 0.23 | 0.24 | 0.38 | 0.00 | 0.3% |
| SC-109.01 | 15 min | 4416 | 0.49 | 0.50 | 0.05 | 0.50 | 0.48 | 0.51 | 0.42 | 0.31 | 0.32 | 0.51 | 0.01 | 1.3% |
| SC-11.01 | 15 min | 4413 | 0.41 | 0.42 | 0.04 | 0.42 | 0.39 | 0.42 | 0.35 | 0.26 | 0.26 | 0.42 | 0.00 | 0.3% |
| SC-110.01 | 15 min | 4415 | 0.45 | 0.46 | 0.05 | 0.46 | 0.44 | 0.46 | 0.39 | 0.29 | 0.29 | 0.46 | 0.00 | 0.6% |
| SC-110.02 | 15 min | 4411 | 1.07 | 1.09 | 0.09 | 1.10 | 0.96 | 1.14 | 0.97 | 0.71 | 0.67 | 1.14 | 0.03 | 3.2% |
| SC-110.03 | 15 min | 4411 | 1.15 | 1.17 | 0.09 | 1.18 | 1.04 | 1.22 | 1.06 | 0.79 | 0.74 | 1.22 | 0.04 | 3.4% |
| SC-111.01 | 20 min | 4435 | 0.31 | 0.30 | 0.05 | 0.31 | 0.21 | 0.32 | 0.35 | 0.27 | 0.20 | 0.35 | 0.04 | 12.3% |
| SC-112.01 | 15 min | 4415 | 0.77 | 0.78 | 0.08 | 0.78 | 0.73 | 0.78 | 0.67 | 0.50 | 0.48 | 0.78 | 0.00 | 0.4% |
| SC-113.01 | 15 min | 4381 | 0.28 | 0.29 | 0.03 | 0.29 | 0.27 | 0.29 | 0.24 | 0.18 | 0.18 | 0.29 | 0.00 | 0.4% |
| SC-113.02 | 15 min | 4411 | 0.92 | 0.94 | 0.08 | 0.97 | 0.81 | 1.00 | 0.87 | 0.65 | 0.60 | 1.00 | 0.03 | 3.1% |
| SC-114.01 | 15 min | 4411 | 0.49 | 0.51 | 0.05 | 0.51 | 0.46 | 0.52 | 0.47 | 0.36 | 0.32 | 0.52 | 0.01 | 2.7% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-114.02 | 15 min | 4411 | 0.80 | 0.82 | 0.07 | 0.82 | 0.72 | 0.85 | 0.74 | 0.56 | 0.51 | 0.85 | 0.03 | 3.2% |
| SC-114.03 | 15 min | 4413 | 1.65 | 1.69 | 0.14 | 1.71 | 1.52 | 1.72 | 1.50 | 1.14 | 1.06 | 1.72 | 0.01 | 0.8% |
| SC-115.01 | 15 min | 4415 | 0.44 | 0.45 | 0.05 | 0.45 | 0.42 | 0.45 | 0.38 | 0.28 | 0.28 | 0.45 | 0.00 | -0.3% |
| SC-115.02 | 15 min | 4408 | 0.73 | 0.74 | 0.06 | 0.75 | 0.67 | 0.76 | 0.65 | 0.48 | 0.46 | 0.76 | 0.01 | 1.7% |
| SC-116.01 | 15 min | 4415 | 0.43 | 0.44 | 0.05 | 0.44 | 0.42 | 0.44 | 0.38 | 0.28 | 0.27 | 0.44 | 0.00 | 1.0% |
| SC-116.02 | 15 min | 4416 | 0.72 | 0.74 | 0.07 | 0.75 | 0.67 | 0.75 | 0.64 | 0.48 | 0.46 | 0.75 | 0.00 | -0.1% |
| SC-117.01 | 15 min | 4416 | 0.26 | 0.26 | 0.03 | 0.26 | 0.25 | 0.27 | 0.22 | 0.16 | 0.16 | 0.27 | 0.01 | 2.0% |
| SC-118.01 | 15 min | 4415 | 0.55 | 0.55 | 0.06 | 0.55 | 0.54 | 0.55 | 0.46 | 0.34 | 0.34 | 0.55 | 0.00 | 0.2% |
| SC-119.01 | 15 min | 4416 | 0.86 | 0.88 | 0.08 | 0.88 | 0.81 | 0.88 | 0.75 | 0.56 | 0.54 | 0.88 | 0.00 | 0.1% |
| SC-119.02 | 15 min | 4381 | 2.17 | 2.21 | 0.21 | 2.22 | 2.06 | 2.22 | 1.91 | 1.43 | 1.38 | 2.22 | 0.00 | 0.0% |
| SC-12.01 | 15 min | 4416 | 0.47 | 0.48 | 0.05 | 0.48 | 0.45 | 0.49 | 0.41 | 0.30 | 0.30 | 0.49 | 0.01 | 1.2% |
| SC-12.02 | 15 min | 4415 | 0.81 | 0.83 | 0.09 | 0.83 | 0.79 | 0.83 | 0.69 | 0.52 | 0.52 | 0.83 | 0.00 | -0.3% |
| SC-12.03 | 15 min | 4416 | 1.53 | 1.56 | 0.14 | 1.58 | 1.44 | 1.58 | 1.35 | 1.00 | 0.98 | 1.58 | 0.00 | 0.2% |
| SC-12.04 | 15 min | 4416 | 1.95 | 1.98 | 0.18 | 2.00 | 1.83 | 2.02 | 1.73 | 1.30 | 1.25 | 2.02 | 0.02 | 0.8% |
| SC-120.01 | 15 min | 4413 | 0.38 | 0.39 | 0.04 | 0.39 | 0.37 | 0.39 | 0.33 | 0.25 | 0.25 | 0.39 | 0.00 | 0.8% |
| SC-121.01 | 15 min | 4413 | 0.48 | 0.49 | 0.05 | 0.49 | 0.46 | 0.50 | 0.42 | 0.31 | 0.31 | 0.50 | 0.01 | 1.2% |
| SC-122.01 | 15 min | 4415 | 0.77 | 0.76 | 0.09 | 0.76 | 0.75 | 0.76 | 0.63 | 0.47 | 0.48 | 0.76 | 0.00 | 0.2% |
| SC-122.02 | 15 min | 4416 | 1.25 | 1.27 | 0.12 | 1.28 | 1.18 | 1.28 | 1.08 | 0.80 | 0.79 | 1.28 | 0.00 | 0.1% |
| SC-122.03 | 15 min | 4408 | 1.70 | 1.73 | 0.14 | 1.74 | 1.54 | 1.77 | 1.48 | 1.10 | 1.08 | 1.77 | 0.03 | 1.7% |
| SC-123.01 | 15 min | 4415 | 0.39 | 0.40 | 0.04 | 0.40 | 0.37 | 0.40 | 0.33 | 0.25 | 0.25 | 0.40 | 0.00 | -0.4% |
| SC-123.02 | 15 min | 4408 | 1.15 | 1.16 | 0.09 | 1.17 | 1.04 | 1.20 | 1.01 | 0.74 | 0.73 | 1.20 | 0.03 | 2.4% |
| SC-123.03 | 15 min | 4411 | 7.79 | 7.93 | 0.63 | 8.10 | 6.87 | 8.38 | 7.60 | 6.07 | 5.21 | 8.38 | 0.28 | 3.5% |
| SC-123.04 | 15 min | 4411 | 7.94 | 8.08 | 0.63 | 8.22 | 7.04 | 8.50 | 7.71 | 6.18 | 5.29 | 8.50 | 0.28 | 3.4% |
| SC-123.05 | 15 min | 4411 | 10.04 | 10.13 | 0.72 | 10.14 | 9.20 | 10.47 | 9.40 | 7.69 | 6.63 | 10.47 | 0.33 | 3.2% |
| SC-123.06 | 15 min | 4410 | 10.27 | 10.41 | 0.67 | 10.45 | 9.62 | 10.53 | 9.50 | 7.88 | 6.85 | 10.53 | 0.08 | 0.8% |
| SC-123.07 | 15 min | 4416 | 10.89 | 10.91 | 0.60 | 10.92 | 10.43 | 10.94 | 9.94 | 8.47 | 7.42 | 10.94 | 0.02 | 0.2% |
| SC-124.01 | 20 min | 4444 | 0.46 | 0.45 | 0.07 | 0.48 | 0.35 | 0.48 | 0.50 | 0.44 | 0.31 | 0.50 | 0.02 | 3.9% |
| SC-124.02 | 20 min | 4444 | 3.00 | 3.00 | 0.46 | 3.15 | 2.62 | 3.37 | 3.28 | 2.79 | 2.18 | 3.37 | 0.22 | 7.0% |
| SC-125.01 | 20 min | 4435 | 0.64 | 0.64 | 0.10 | 0.67 | 0.47 | 0.67 | 0.71 | 0.59 | 0.42 | 0.71 | 0.04 | 6.0% |
| SC-126.01 | 15 min | 4415 | 0.36 | 0.37 | 0.04 | 0.37 | 0.35 | 0.37 | 0.31 | 0.23 | 0.23 | 0.37 | 0.00 | 0.0% |
| SC-126.02 | 20 min | 4444 | 0.84 | 0.82 | 0.13 | 0.88 | 0.70 | 0.92 | 0.92 | 0.81 | 0.59 | 0.92 | 0.04 | 5.1% |
| SC-126.03 | 15 min | 4409 | 1.64 | 1.63 | 0.16 | 1.65 | 1.45 | 1.85 | 1.72 | 1.43 | 1.15 | 1.85 | 0.20 | 11.8% |
| SC-127.01 | 15 min | 4415 | 0.85 | 0.84 | 0.10 | 0.85 | 0.83 | 0.85 | 0.70 | 0.52 | 0.53 | 0.85 | -0.01 | -0.6% |
| SC-127.02 | 15 min | 4415 | 2.35 | 2.36 | 0.23 | 2.37 | 2.25 | 2.37 | 1.98 | 1.48 | 1.47 | 2.37 | 0.00 | 0.1% |
| SC-128.01 | 15 min | 4415 | 0.84 | 0.85 | 0.09 | 0.85 | 0.81 | 0.85 | 0.71 | 0.53 | 0.52 | 0.85 | 0.00 | -0.1% |
| SC-129.01 | 15 min | 4408 | 0.43 | 0.44 | 0.04 | 0.44 | 0.39 | 0.47 | 0.41 | 0.30 | 0.27 | 0.47 | 0.03 | 6.0% |
| SC-13.01 | 15 min | 4413 | 0.43 | 0.44 | 0.05 | 0.44 | 0.42 | 0.44 | 0.37 | 0.28 | 0.27 | 0.44 | 0.00 | 0.3% |
| SC-130.01 | 15 min | 4415 | 0.63 | 0.64 | 0.07 | 0.64 | 0.61 | 0.64 | 0.54 | 0.40 | 0.40 | 0.64 | 0.00 | 0.0% |
| SC-131.01 | 15 min | 4415 | 0.25 | 0.25 | 0.03 | 0.25 | 0.25 | 0.25 | 0.20 | 0.15 | 0.16 | 0.25 | 0.00 | -0.5% |
| SC-132.01 | 15 min | 4416 | 0.35 | 0.36 | 0.04 | 0.36 | 0.34 | 0.37 | 0.31 | 0.23 | 0.23 | 0.37 | 0.01 | 1.7% |
| SC-133.01 | 15 min | 4415 | 0.26 | 0.26 | 0.03 | 0.26 | 0.25 | 0.26 | 0.22 | 0.16 | 0.16 | 0.26 | 0.00 | -0.9% |
| SC-134.01 | 15 min | 4416 | 0.22 | 0.22 | 0.02 | 0.22 | 0.20 | 0.22 | 0.19 | 0.15 | 0.14 | 0.22 | 0.00 | 1.7% |
| SC-134.02 | 10 min | 4376 | 0.69 | 0.70 | 0.03 | 0.70 | 0.68 | 0.75 | 0.70 | 0.52 | 0.42 | 0.75 | 0.05 | 7.2% |
| SC-134.03 | 15 min | 4410 | 1.37 | 1.32 | 0.16 | 1.32 | 1.32 | 1.59 | 1.48 | 1.09 | 0.88 | 1.59 | 0.27 | 20.4% |
| SC-134.04 | 20 min | 4435 | 1.92 | 1.89 | 0.31 | 1.94 | 1.77 | 2.25 | 2.12 | 1.56 | 1.25 | 2.25 | 0.31 | 15.8% |
| SC-135.01 | 15 min | 4415 | 0.17 | 0.18 | 0.02 | 0.18 | 0.17 | 0.18 | 0.15 | 0.11 | 0.11 | 0.18 | 0.00 | -1.7% |
| SC-135.02 | 15 min | 4408 | 0.98 | 1.00 | 0.08 | 1.00 | 0.90 | 1.02 | 0.87 | 0.64 | 0.62 | 1.02 | 0.02 | 2.4% |
| SC-135.03 | 15 min | 4408 | 1.29 | 1.32 | 0.11 | 1.34 | 1.19 | 1.35 | 1.15 | 0.86 | 0.83 | 1.35 | 0.01 | 0.7% |
| SC-135.04 | 15 min | 4408 | 2.87 | 2.92 | 0.24 | 2.94 | 2.61 | 3.00 | 2.58 | 1.93 | 1.81 | 3.00 | 0.06 | 2.1% |
| SC-135.05 | 15 min | 4410 | 3.22 | 3.27 | 0.23 | 3.28 | 3.00 | 3.34 | 2.93 | 2.17 | 2.07 | 3.34 | 0.06 | 1.7% |
| SC-135.06 | 15 min | 4411 | 5.26 | 5.34 | 0.37 | 5.37 | 4.94 | 5.61 | 4.87 | 3.65 | 3.38 | 5.61 | 0.24 | 4.5% |
| SC-136.01 | 15 min | 4415 | 0.51 | 0.52 | 0.06 | 0.52 | 0.50 | 0.52 | 0.44 | 0.33 | 0.33 | 0.52 | 0.00 | 0.4% |
| SC-137.01 | 15 min | 4416 | 0.53 | 0.54 | 0.05 | 0.54 | 0.49 | 0.54 | 0.46 | 0.34 | 0.33 | 0.54 | 0.00 | -0.3% |
| SC-138.01 | 15 min | 4416 | 0.64 | 0.65 | 0.06 | 0.66 | 0.61 | 0.66 | 0.56 | 0.43 | 0.41 | 0.66 | 0.00 | -0.1% |
| SC-139.01 | 15 min | 4413 | 0.62 | 0.64 | 0.06 | 0.64 | 0.59 | 0.64 | 0.55 | 0.42 | 0.39 | 0.64 | 0.00 | 0.1% |
| SC-139.02 | 15 min | 4413 | 0.76 | 0.77 | 0.07 | 0.78 | 0.71 | 0.78 | 0.68 | 0.51 | 0.48 | 0.78 | 0.00 | 0.5% |
| SC-14.01 | 15 min | 4415 | 0.75 | 0.76 | 0.08 | 0.76 | 0.73 | 0.76 | 0.64 | 0.48 | 0.48 | 0.76 | 0.00 | 0.0% |
| SC-14.02 | 15 min | 4416 | 1.19 | 1.21 | 0.11 | 1.23 | 1.11 | 1.23 | 1.04 | 0.77 | 0.75 | 1.23 | 0.00 | 0.2% |
| SC-14.03 | 15 min | 4416 | 1.55 | 1.59 | 0.14 | 1.61 | 1.44 | 1.61 | 1.38 | 1.02 | 0.98 | 1.61 | 0.00 | 0.1% |
| SC-140.01 | 15 min | 4381 | 0.43 | 0.44 | 0.04 | 0.44 | 0.41 | 0.44 | 0.38 | 0.28 | 0.27 | 0.44 | 0.00 | 1.0% |
| SC-141.01 | 20 min | 4435 | 0.66 | 0.66 | 0.11 | 0.66 | 0.64 | 0.82 | 0.69 | 0.51 | 0.43 | 0.82 | 0.16 | 24.5% |
| SC-142.01 | 20 min | 4435 | 1.05 | 1.04 | 0.17 | 1.08 | 0.78 | 1.11 | 1.17 | 0.94 | 0.68 | 1.17 | 0.09 | 8.5% |
| SC-143.01 | 15 min | 4413 | 0.38 | 0.38 | 0.04 | 0.40 | 0.33 | 0.43 | 0.41 | 0.37 | 0.28 | 0.43 | 0.03 | 7.2% |
| SC-143.02 | 15 min | 4409 | 3.50 | 3.45 | 0.38 | 3.52 | 3.12 | 3.99 | 3.49 | 2.60 | 2.32 | 3.99 | 0.47 | 13.3% |
| SC-144.01 | 15 min | 4408 | 0.51 | 0.52 | 0.05 | 0.53 | 0.46 | 0.53 | 0.47 | 0.37 | 0.33 | 0.53 | 0.00 | 0.2% |
| SC-144.02 | 15 min | 4411 | 0.72 | 0.74 | 0.06 | 0.75 | 0.65 | 0.77 | 0.68 | 0.55 | 0.49 | 0.77 | 0.02 | 2.3% |
| SC-144.03 | 15 min | 4410 | 0.95 | 0.96 | 0.06 | 0.96 | 0.90 | 0.98 | 0.93 | 0.75 | 0.65 | 0.98 | 0.02 | 2.0% |
| SC-144.04 | 10 min | 4376 | 1.68 | 1.68 | 0.03 | 1.69 | 1.67 | 1.73 | 1.67 | 1.29 | 1.10 | 1.73 | 0.04 | 2.3% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-144.05 | 10 min | 4376 | 3.18 | 3.20 | 0.09 | 3.21 | 3.17 | 3.35 | 3.05 | 2.32 | 1.94 | 3.35 | 0.14 | 4.3% |
| SC-145.01 | 15 min | 4381 | 0.65 | 0.65 | 0.06 | 0.65 | 0.61 | 0.65 | 0.55 | 0.41 | 0.41 | 0.65 | 0.00 | 0.7% |
| SC-145.02 | 15 min | 4416 | 1.21 | 1.22 | 0.10 | 1.24 | 1.10 | 1.24 | 1.02 | 0.76 | 0.76 | 1.24 | 0.00 | 0.2% |
| SC-146.01 | 20 min | 4436 | 1.19 | 1.17 | 0.17 | 1.18 | 0.75 | 1.19 | 1.34 | 1.03 | 0.79 | 1.34 | 0.16 | 13.6% |
| SC-147.01 | 20 min | 4435 | 0.57 | 0.56 | 0.10 | 0.57 | 0.52 | 0.71 | 0.62 | 0.45 | 0.36 | 0.71 | 0.14 | 25.4% |
| SC-147.02 | 20 min | 4435 | 0.80 | 0.79 | 0.14 | 0.80 | 0.72 | 0.98 | 0.88 | 0.63 | 0.53 | 0.98 | 0.18 | 22.3% |
| SC-147.03 | 20 min | 4440 | 2.10 | 2.12 | 0.33 | 2.14 | 2.01 | 2.55 | 2.19 | 1.61 | 1.42 | 2.55 | 0.41 | 19.1% |
| SC-148.01 | 15 min | 4413 | 0.54 | 0.55 | 0.05 | 0.55 | 0.51 | 0.56 | 0.47 | 0.34 | 0.34 | 0.56 | 0.01 | 1.8% |
| SC-148.02 | 15 min | 4410 | 1.12 | 1.14 | 0.19 | 1.15 | 1.11 | 1.34 | 1.11 | 0.82 | 0.75 | 1.34 | 0.19 | 16.8% |
| SC-149.01 | 15 min | 4411 | 0.39 | 0.40 | 0.03 | 0.40 | 0.34 | 0.42 | 0.38 | 0.32 | 0.26 | 0.42 | 0.02 | 4.1% |
| SC-149.02 | 20 min | 4435 | 1.19 | 1.21 | 0.19 | 1.22 | 1.15 | 1.45 | 1.24 | 0.93 | 0.81 | 1.45 | 0.23 | 18.9% |
| SC-15.01 | 15 min | 4381 | 0.77 | 0.78 | 0.07 | 0.78 | 0.72 | 0.78 | 0.67 | 0.50 | 0.48 | 0.78 | 0.00 | 0.4% |
| SC-15.02 | 15 min | 4415 | 1.01 | 1.03 | 0.10 | 1.03 | 0.96 | 1.03 | 0.89 | 0.68 | 0.64 | 1.03 | 0.00 | -0.1% |
| SC-15.03 | 15 min | 4416 | 1.63 | 1.66 | 0.14 | 1.68 | 1.50 | 1.69 | 1.44 | 1.09 | 1.04 | 1.69 | 0.01 | 0.6% |
| SC-150.01 | 15 min | 4415 | 0.46 | 0.47 | 0.05 | 0.47 | 0.45 | 0.47 | 0.39 | 0.29 | 0.29 | 0.47 | 0.00 | -0.6% |
| SC-150.02 | 15 min | 4416 | 0.91 | 0.93 | 0.08 | 0.94 | 0.85 | 0.94 | 0.81 | 0.60 | 0.58 | 0.94 | 0.00 | 0.2% |
| SC-150.03 | 15 min | 4408 | 2.35 | 2.39 | 0.20 | 2.40 | 2.14 | 2.45 | 2.10 | 1.55 | 1.49 | 2.45 | 0.05 | 2.2% |
| SC-150.04 | 15 min | 4408 | 3.04 | 3.09 | 0.23 | 3.11 | 2.81 | 3.14 | 2.72 | 2.03 | 1.95 | 3.14 | 0.02 | 0.8% |
| SC-150.05 | 15 min | 4410 | 4.22 | 4.26 | 0.30 | 4.29 | 3.98 | 4.37 | 3.77 | 2.87 | 2.69 | 4.37 | 0.08 | 2.0% |
| SC-150.06 | 15 min | 4410 | 7.69 | 7.71 | 0.47 | 7.86 | 7.43 | 7.96 | 7.10 | 5.40 | 4.92 | 7.96 | 0.10 | 1.3% |
| SC-150.07 | 15 min | 4410 | 12.29 | 12.41 | 0.80 | 12.53 | 11.69 | 12.87 | 11.33 | 8.61 | 7.74 | 12.87 | 0.34 | 2.7% |
| SC-150.08 | 2 hours | 4622 | 5.83 | 5.47 | 1.65 | 5.54 | 0.28 | 0.32 | 0.34 | 2.48 | 5.90 | 5.90 | 0.36 | 6.5% |
| SC-150.09 | 2 hours | 4622 | 6.09 | 5.78 | 1.62 | 5.80 | 1.79 | 2.08 | 1.82 | 2.59 | 6.19 | 6.19 | 0.39 | 6.7% |
| SC-150.10 | 2 hours | 4628 | 7.42 | 7.04 | 1.94 | 7.04 | 4.97 | 4.94 | 4.71 | 4.05 | 7.28 | 7.28 | 0.24 | 3.4% |
| SC-150.11 | 15 min | 4412 | 13.21 | 13.18 | 0.71 | 13.24 | 12.78 | 13.77 | 12.65 | 9.90 | 9.84 | 13.77 | 0.53 | 4.0% |
| SC-150.12 | 15 min | 4412 | 20.60 | 20.65 | 1.04 | 20.68 | 20.10 | 21.29 | 19.68 | 15.53 | 13.59 | 21.29 | 0.61 | 3.0% |
| SC-150.13 | 15 min | 4381 | 23.76 | 23.69 | 1.18 | 23.88 | 23.12 | 23.27 | 21.58 | 18.14 | 16.13 | 23.27 | -0.61 | -2.6% |
| SC-150.14 | 15 min | 4408 | 34.49 | 34.81 | 1.80 | 35.10 | 31.84 | 32.85 | 31.57 | 29.26 | 25.43 | 32.85 | -2.25 | -6.4% |
| SC-150.15 | 15 min | 4408 | 34.88 | 35.24 | 1.80 | 35.54 | 32.11 | 33.12 | 31.94 | 29.96 | 25.89 | 33.12 | -2.43 | -6.8% |
| SC-150.16 | 15 min | 4408 | 36.47 | 37.00 | 1.85 | 37.40 | 33.21 | 34.00 | 33.27 | 32.33 | 27.45 | 34.00 | -3.41 | -9.1% |
| SC-150.17 | 15 min | 4408 | 37.08 | 37.68 | 1.93 | 38.12 | 33.60 | 34.24 | 33.96 | 33.74 | 28.26 | 34.24 | -3.88 | -10.2% |
| SC-151.01 | 15 min | 4415 | 0.61 | 0.62 | 0.07 | 0.62 | 0.59 | 0.62 | 0.52 | 0.39 | 0.38 | 0.62 | 0.00 | -0.2% |
| SC-151.02 | 15 min | 4416 | 0.96 | 0.98 | 0.09 | 0.99 | 0.91 | 0.99 | 0.84 | 0.63 | 0.61 | 0.99 | 0.00 | 0.1% |
| SC-152.01 | 15 min | 4416 | 0.55 | 0.55 | 0.05 | 0.56 | 0.51 | 0.56 | 0.48 | 0.36 | 0.34 | 0.56 | 0.00 | 0.0% |
| SC-153.01 | 15 min | 4415 | 0.45 | 0.45 | 0.04 | 0.45 | 0.43 | 0.45 | 0.38 | 0.29 | 0.28 | 0.45 | 0.00 | -0.4% |
| SC-153.02 | 15 min | 4416 | 1.08 | 1.10 | 0.09 | 1.11 | 1.00 | 1.11 | 0.94 | 0.72 | 0.68 | 1.11 | 0.00 | 0.1% |
| SC-154.01 | 15 min | 4416 | 0.82 | 0.84 | 0.08 | 0.85 | 0.76 | 0.85 | 0.74 | 0.57 | 0.52 | 0.85 | 0.00 | 0.5% |
| SC-154.02 | 15 min | 4411 | 2.83 | 2.86 | 0.22 | 2.87 | 2.59 | 2.97 | 2.60 | 2.00 | 1.81 | 2.97 | 0.10 | 3.5% |
| SC-155.01 | 15 min | 4413 | 0.31 | 0.32 | 0.03 | 0.32 | 0.28 | 0.35 | 0.29 | 0.22 | 0.20 | 0.35 | 0.03 | 8.7% |
| SC-155.02 | 15 min | 4411 | 0.88 | 0.90 | 0.08 | 0.92 | 0.79 | 0.95 | 0.83 | 0.61 | 0.56 | 0.95 | 0.03 | 3.1% |
| SC-156.01 | 15 min | 4416 | 0.34 | 0.34 | 0.03 | 0.34 | 0.31 | 0.35 | 0.29 | 0.22 | 0.21 | 0.35 | 0.01 | 1.6% |
| SC-157.01 | 15 min | 4415 | 0.40 | 0.41 | 0.04 | 0.41 | 0.38 | 0.41 | 0.35 | 0.27 | 0.26 | 0.41 | 0.00 | -0.4% |
| SC-158.01 | 15 min | 4415 | 0.52 | 0.53 | 0.06 | 0.53 | 0.50 | 0.53 | 0.45 | 0.33 | 0.33 | 0.53 | 0.00 | -0.1% |
| SC-158.02 | 15 min | 4416 | 0.68 | 0.70 | 0.06 | 0.70 | 0.64 | 0.71 | 0.60 | 0.45 | 0.43 | 0.71 | 0.01 | 0.8% |
| SC-158.03 | 15 min | 4408 | 1.49 | 1.52 | 0.12 | 1.53 | 1.36 | 1.57 | 1.35 | 1.00 | 0.95 | 1.57 | 0.04 | 2.5% |
| SC-158.04 | 15 min | 4408 | 2.79 | 2.86 | 0.24 | 2.89 | 2.57 | 2.91 | 2.50 | 1.87 | 1.78 | 2.91 | 0.02 | 0.8% |
| SC-159.01 | 15 min | 4415 | 0.41 | 0.42 | 0.04 | 0.42 | 0.40 | 0.42 | 0.36 | 0.27 | 0.26 | 0.42 | 0.00 | 0.3% |
| SC-16.01 | 15 min | 4415 | 0.50 | 0.51 | 0.05 | 0.51 | 0.48 | 0.51 | 0.43 | 0.32 | 0.32 | 0.51 | 0.00 | -0.7% |
| SC-160.01 | 15 min | 4413 | 0.40 | 0.41 | 0.04 | 0.41 | 0.39 | 0.41 | 0.34 | 0.25 | 0.26 | 0.41 | 0.00 | 0.3% |
| SC-160.02 | 15 min | 4416 | 0.92 | 0.95 | 0.08 | 0.96 | 0.85 | 0.96 | 0.82 | 0.61 | 0.59 | 0.96 | 0.00 | 0.1% |
| SC-161.01 | 15 min | 4415 | 0.49 | 0.49 | 0.05 | 0.49 | 0.47 | 0.49 | 0.42 | 0.31 | 0.31 | 0.49 | 0.00 | 0.9% |
| SC-161.02 | 15 min | 4416 | 0.95 | 0.97 | 0.09 | 0.97 | 0.90 | 0.98 | 0.83 | 0.62 | 0.61 | 0.98 | 0.01 | 0.7% |
| SC-162.01 | 15 min | 4416 | 0.58 | 0.59 | 0.05 | 0.59 | 0.54 | 0.60 | 0.51 | 0.39 | 0.37 | 0.60 | 0.01 | 1.2% |
| SC-163.01 | 15 min | 4413 | 0.34 | 0.33 | 0.03 | 0.34 | 0.29 | 0.38 | 0.34 | 0.24 | 0.22 | 0.38 | 0.04 | 11.6% |
| SC-163.02 | 15 min | 4409 | 0.65 | 0.65 | 0.06 | 0.67 | 0.58 | 0.73 | 0.64 | 0.46 | 0.42 | 0.73 | 0.06 | 8.6% |
| SC-163.03 | 15 min | 4411 | 1.07 | 1.09 | 0.09 | 1.12 | 0.94 | 1.16 | 1.02 | 0.75 | 0.69 | 1.16 | 0.04 | 3.6% |
| SC-163.04 | 15 min | 4411 | 1.48 | 1.52 | 0.13 | 1.54 | 1.33 | 1.58 | 1.39 | 1.04 | 0.96 | 1.58 | 0.04 | 2.9% |
| SC-163.05 | 15 min | 4411 | 2.57 | 2.61 | 0.20 | 2.62 | 2.36 | 2.72 | 2.38 | 1.80 | 1.64 | 2.72 | 0.09 | 3.6% |
| SC-164.01 | 15 min | 4416 | 0.51 | 0.52 | 0.05 | 0.52 | 0.48 | 0.52 | 0.44 | 0.34 | 0.33 | 0.52 | 0.00 | 0.0% |
| SC-165.01 | 15 min | 4416 | 0.43 | 0.44 | 0.04 | 0.44 | 0.41 | 0.44 | 0.38 | 0.29 | 0.28 | 0.44 | 0.00 | 1.0% |
| SC-165.02 | 15 min | 4416 | 1.12 | 1.13 | 0.10 | 1.14 | 1.05 | 1.14 | 0.97 | 0.75 | 0.72 | 1.14 | 0.00 | 0.4% |
| SC-165.03 | 15 min | 4416 | 1.47 | 1.49 | 0.12 | 1.50 | 1.37 | 1.51 | 1.28 | 1.00 | 0.94 | 1.51 | 0.01 | 0.7% |
| SC-165.04 | 15 min | 4408 | 3.15 | 3.20 | 0.22 | 3.20 | 2.96 | 3.23 | 2.82 | 2.14 | 2.02 | 3.23 | 0.03 | 1.0% |
| SC-165.05 | 15 min | 4410 | 5.31 | 5.34 | 0.35 | 5.42 | 5.03 | 5.49 | 4.75 | 3.67 | 3.37 | 5.49 | 0.07 | 1.3% |
| SC-166.01 | 15 min | 4415 | 0.40 | 0.40 | 0.04 | 0.40 | 0.38 | 0.40 | 0.34 | 0.26 | 0.25 | 0.40 | 0.00 | 0.8% |
| SC-167.01 | 15 min | 4413 | 0.58 | 0.59 | 0.06 | 0.59 | 0.56 | 0.59 | 0.49 | 0.36 | 0.37 | 0.59 | 0.00 | 0.2% |
| SC-167.02 | 15 min | 4416 | 1.50 | 1.53 | 0.14 | 1.56 | 1.40 | 1.56 | 1.32 | 0.97 | 0.95 | 1.56 | 0.00 | 0.1% |
| SC-168.01 | 15 min | 4415 | 0.47 | 0.48 | 0.05 | 0.48 | 0.45 | 0.48 | 0.41 | 0.31 | 0.30 | 0.48 | 0.00 | 0.3% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-169.01 | 15 min | 4381 | 0.44 | 0.45 | 0.04 | 0.45 | 0.42 | 0.45 | 0.38 | 0.29 | 0.28 | 0.45 | 0.00 | -0.6% |
| SC-169.02 | 15 min | 4408 | 0.82 | 0.83 | 0.07 | 0.84 | 0.75 | 0.85 | 0.73 | 0.57 | 0.53 | 0.85 | 0.01 | 1.3% |
| SC-169.03 | 15 min | 4416 | 1.83 | 1.85 | 0.16 | 1.87 | 1.70 | 1.88 | 1.60 | 1.25 | 1.17 | 1.88 | 0.01 | 0.4% |
| SC-17.01 | 15 min | 4415 | 0.43 | 0.44 | 0.05 | 0.44 | 0.42 | 0.44 | 0.37 | 0.28 | 0.28 | 0.44 | 0.00 | 0.4% |
| SC-17.02 | 15 min | 4416 | 0.77 | 0.79 | 0.07 | 0.80 | 0.72 | 0.80 | 0.68 | 0.50 | 0.49 | 0.80 | 0.00 | 0.1% |
| SC-17.03 | 15 min | 4408 | 1.30 | 1.33 | 0.11 | 1.34 | 1.19 | 1.36 | 1.15 | 0.85 | 0.82 | 1.36 | 0.02 | 1.2% |
| SC-17.04 | 15 min | 4411 | 3.09 | 3.14 | 0.26 | 3.21 | 2.72 | 3.33 | 2.80 | 2.06 | 1.96 | 3.33 | 0.12 | 3.7% |
| SC-17.05 | 15 min | 4411 | 4.24 | 4.32 | 0.33 | 4.41 | 3.83 | 4.59 | 3.94 | 2.88 | 2.70 | 4.59 | 0.18 | 4.0% |
| SC-17.06 | 15 min | 4411 | 4.81 | 4.89 | 0.35 | 4.92 | 4.42 | 5.12 | 4.50 | 3.31 | 3.04 | 5.12 | 0.20 | 4.1% |
| SC-17.07 | 15 min | 4410 | 5.08 | 5.15 | 0.31 | 5.18 | 4.84 | 5.35 | 4.74 | 3.54 | 3.26 | 5.35 | 0.17 | 3.3% |
| SC-170.01 | 15 min | 4416 | 0.39 | 0.40 | 0.04 | 0.40 | 0.37 | 0.40 | 0.34 | 0.26 | 0.25 | 0.40 | 0.00 | 0.4% |
| SC-171.01 | 15 min | 4415 | 0.27 | 0.27 | 0.03 | 0.27 | 0.27 | 0.27 | 0.22 | 0.17 | 0.17 | 0.27 | 0.00 | 0.9% |
| SC-172.01 | 15 min | 4415 | 0.55 | 0.55 | 0.06 | 0.55 | 0.54 | 0.55 | 0.46 | 0.34 | 0.35 | 0.55 | 0.00 | 0.1% |
| SC-172.02 | 15 min | 4415 | 0.96 | 0.98 | 0.10 | 0.98 | 0.92 | 0.98 | 0.82 | 0.61 | 0.62 | 0.98 | 0.00 | -0.1% |
| SC-173.01 | 45 min | 4540 | 0.56 | 0.53 | 0.07 | 0.53 | 0.35 | 0.49 | 0.54 | 0.59 | 0.42 | 0.59 | 0.06 | 12.1% |
| SC-173.02 | 20 min | 4444 | 1.14 | 1.11 | 0.17 | 1.18 | 0.97 | 1.26 | 1.23 | 1.16 | 0.81 | 1.26 | 0.08 | 6.4% |
| SC-173.03 | 45 min | 4542 | 1.17 | 1.10 | 0.20 | 1.13 | 1.03 | 1.27 | 1.24 | 1.22 | 0.88 | 1.27 | 0.14 | 11.9% |
| SC-173.04 | 15 min | 4411 | 2.15 | 2.19 | 0.18 | 2.24 | 1.91 | 2.31 | 2.11 | 1.84 | 1.43 | 2.31 | 0.07 | 3.0% |
| SC-173.05 | 10 min | 4377 | 2.48 | 2.43 | 0.10 | 2.45 | 2.42 | 2.47 | 2.34 | 2.09 | 1.69 | 2.47 | 0.02 | 0.7% |
| SC-174.01 | 15 min | 4415 | 0.35 | 0.35 | 0.04 | 0.35 | 0.34 | 0.35 | 0.29 | 0.22 | 0.22 | 0.35 | 0.00 | 0.5% |
| SC-175.01 | 15 min | 4415 | 0.62 | 0.63 | 0.07 | 0.63 | 0.60 | 0.63 | 0.53 | 0.40 | 0.39 | 0.63 | 0.00 | 0.3% |
| SC-175.02 | 15 min | 4416 | 1.29 | 1.32 | 0.12 | 1.33 | 1.19 | 1.34 | 1.14 | 0.84 | 0.81 | 1.34 | 0.01 | 0.6% |
| SC-175.03 | 15 min | 4408 | 2.09 | 2.14 | 0.19 | 2.16 | 1.91 | 2.18 | 1.86 | 1.38 | 1.33 | 2.18 | 0.02 | 1.1% |
| SC-175.04 | 15 min | 4408 | 2.56 | 2.60 | 0.21 | 2.63 | 2.37 | 2.65 | 2.29 | 1.76 | 1.67 | 2.65 | 0.02 | 0.8% |
| SC-175.05 | 15 min | 4410 | 2.83 | 2.87 | 0.18 | 2.88 | 2.75 | 2.92 | 2.64 | 1.97 | 1.87 | 2.92 | 0.04 | 1.2% |
| SC-176.01 | 15 min | 4413 | 0.27 | 0.27 | 0.03 | 0.27 | 0.24 | 0.30 | 0.28 | 0.22 | 0.18 | 0.30 | 0.03 | 9.7% |
| SC-177.01 | 15 min | 4415 | 0.35 | 0.35 | 0.04 | 0.35 | 0.34 | 0.35 | 0.29 | 0.22 | 0.22 | 0.35 | 0.00 | 0.9% |
| SC-177.02 | 15 min | 4411 | 0.94 | 0.96 | 0.08 | 0.97 | 0.83 | 1.01 | 0.84 | 0.62 | 0.59 | 1.01 | 0.04 | 4.0% |
| SC-177.03 | 15 min | 4408 | 2.59 | 2.64 | 0.22 | 2.64 | 2.35 | 2.72 | 2.33 | 1.73 | 1.66 | 2.72 | 0.08 | 3.1% |
| SC-177.04 | 15 min | 4408 | 3.53 | 3.59 | 0.29 | 3.59 | 3.22 | 3.71 | 3.20 | 2.37 | 2.25 | 3.71 | 0.12 | 3.4% |
| SC-178.01 | 15 min | 4381 | 0.76 | 0.77 | 0.07 | 0.77 | 0.72 | 0.78 | 0.66 | 0.50 | 0.47 | 0.78 | 0.01 | 0.8% |
| SC-178.02 | 15 min | 4408 | 1.17 | 1.20 | 0.10 | 1.21 | 1.07 | 1.22 | 1.05 | 0.78 | 0.74 | 1.22 | 0.01 | 1.2% |
| SC-179.01 | 15 min | 4415 | 0.62 | 0.63 | 0.07 | 0.63 | 0.60 | 0.63 | 0.53 | 0.39 | 0.39 | 0.63 | 0.00 | -0.3% |
| SC-18.01 | 15 min | 4416 | 0.49 | 0.50 | 0.05 | 0.50 | 0.47 | 0.50 | 0.42 | 0.31 | 0.31 | 0.50 | 0.00 | 0.3% |
| SC-18.02 | 15 min | 4411 | 0.79 | 0.80 | 0.07 | 0.81 | 0.71 | 0.84 | 0.69 | 0.51 | 0.49 | 0.84 | 0.03 | 3.7% |
| SC-180.01 | 15 min | 4415 | 0.60 | 0.61 | 0.06 | 0.61 | 0.57 | 0.61 | 0.52 | 0.39 | 0.37 | 0.61 | 0.00 | 0.4% |
| SC-180.02 | 15 min | 4416 | 1.04 | 1.07 | 0.09 | 1.09 | 0.97 | 1.09 | 0.95 | 0.73 | 0.67 | 1.09 | 0.00 | 0.1% |
| SC-180.03 | 15 min | 4408 | 1.48 | 1.51 | 0.13 | 1.53 | 1.35 | 1.54 | 1.34 | 1.03 | 0.95 | 1.54 | 0.01 | 0.8% |
| SC-180.04 | 15 min | 4408 | 2.13 | 2.18 | 0.19 | 2.20 | 1.95 | 2.22 | 1.91 | 1.46 | 1.37 | 2.22 | 0.02 | 1.0% |
| SC-181.01 | 20 min | 4444 | 0.26 | 0.25 | 0.04 | 0.27 | 0.22 | 0.29 | 0.28 | 0.23 | 0.18 | 0.29 | 0.02 | 7.5% |
| SC-181.02 | 15 min | 4411 | 0.88 | 0.90 | 0.08 | 0.92 | 0.79 | 0.95 | 0.84 | 0.65 | 0.58 | 0.95 | 0.03 | 3.5% |
| SC-181.03 | 15 min | 4408 | 1.44 | 1.47 | 0.12 | 1.48 | 1.32 | 1.51 | 1.32 | 1.04 | 0.91 | 1.51 | 0.03 | 2.0% |
| SC-181.04 | 15 min | 4411 | 2.65 | 2.69 | 0.20 | 2.72 | 2.38 | 2.80 | 2.50 | 2.00 | 1.75 | 2.80 | 0.08 | 3.1% |
| SC-181.05 | 15 min | 4415 | 2.84 | 2.85 | 0.17 | 2.86 | 2.72 | 2.86 | 2.70 | 2.16 | 1.93 | 2.86 | 0.00 | 0.0% |
| SC-181.06 | 10 min | 4377 | 3.16 | 3.11 | 0.11 | 3.12 | 3.09 | 3.11 | 2.96 | 2.34 | 2.12 | 3.11 | -0.01 | -0.3% |
| SC-181.07 | 10 min | 4374 | 7.10 | 7.06 | 0.13 | 7.09 | 6.99 | 7.28 | 6.71 | 5.16 | 4.57 | 7.28 | 0.19 | 2.7% |
| SC-181.08 | 10 min | 4377 | 7.35 | 7.31 | 0.10 | 7.32 | 7.30 | 7.40 | 6.88 | 5.31 | 4.73 | 7.40 | 0.08 | 1.0% |
| SC-182.01 | 15 min | 4381 | 0.42 | 0.43 | 0.04 | 0.43 | 0.40 | 0.44 | 0.37 | 0.28 | 0.27 | 0.44 | 0.01 | 1.3% |
| SC-182.02 | 15 min | 4408 | 0.70 | 0.72 | 0.06 | 0.72 | 0.64 | 0.74 | 0.64 | 0.48 | 0.45 | 0.74 | 0.02 | 2.2% |
| SC-182.03 | 15 min | 4413 | 1.12 | 1.14 | 0.10 | 1.18 | 0.98 | 1.23 | 1.12 | 0.89 | 0.76 | 1.23 | 0.05 | 4.2% |
| SC-183.01 | 15 min | 4413 | 0.41 | 0.42 | 0.04 | 0.42 | 0.37 | 0.45 | 0.41 | 0.32 | 0.27 | 0.45 | 0.03 | 6.6% |
| SC-183.02 | 15 min | 4411 | 0.93 | 0.96 | 0.08 | 0.96 | 0.85 | 0.99 | 0.88 | 0.67 | 0.61 | 0.99 | 0.03 | 3.2% |
| SC-183.03 | 15 min | 4411 | 2.30 | 2.32 | 0.17 | 2.33 | 2.14 | 2.43 | 2.16 | 1.64 | 1.51 | 2.43 | 0.10 | 4.4% |
| SC-183.04 | 10 min | 4377 | 2.61 | 2.58 | 0.11 | 2.60 | 2.55 | 2.72 | 2.46 | 1.87 | 1.72 | 2.72 | 0.12 | 4.7% |
| SC-184.01 | 15 min | 4416 | 0.99 | 1.01 | 0.10 | 1.02 | 0.92 | 1.02 | 0.89 | 0.67 | 0.62 | 1.02 | 0.00 | 0.1% |
| SC-185.01 | 15 min | 4415 | 0.58 | 0.59 | 0.06 | 0.59 | 0.56 | 0.59 | 0.50 | 0.37 | 0.37 | 0.59 | 0.00 | -0.3% |
| SC-185.02 | 15 min | 4416 | 1.31 | 1.35 | 0.12 | 1.36 | 1.21 | 1.37 | 1.16 | 0.86 | 0.83 | 1.37 | 0.01 | 0.5% |
| SC-186.01 | 15 min | 4415 | 0.21 | 0.21 | 0.02 | 0.21 | 0.20 | 0.21 | 0.17 | 0.14 | 0.13 | 0.21 | 0.00 | -0.9% |
| SC-187.01 | 15 min | 4415 | 0.59 | 0.60 | 0.06 | 0.60 | 0.57 | 0.60 | 0.50 | 0.37 | 0.37 | 0.60 | 0.00 | -0.4% |
| SC-187.02 | 15 min | 4416 | 1.16 | 1.19 | 0.11 | 1.20 | 1.08 | 1.20 | 1.03 | 0.77 | 0.74 | 1.20 | 0.00 | 0.3% |
| SC-187.03 | 15 min | 4410 | 1.35 | 1.37 | 0.11 | 1.37 | 1.31 | 1.36 | 1.21 | 0.91 | 0.88 | 1.36 | -0.02 | -1.1% |
| SC-187.04 | 10 min | 4372 | 1.77 | 1.74 | 0.07 | 1.74 | 1.77 | 1.66 | 1.56 | 1.13 | 1.12 | 1.77 | 0.03 | 1.5% |
| SC-187.05 | 10 min | 4372 | 2.12 | 2.11 | 0.04 | 2.11 | 2.12 | 1.86 | 1.81 | 1.32 | 1.30 | 2.12 | 0.01 | 0.5% |
| SC-188.01 | 15 min | 4413 | 0.62 | 0.63 | 0.07 | 0.63 | 0.60 | 0.63 | 0.53 | 0.39 | 0.39 | 0.63 | 0.00 | 0.1% |
| SC-188.02 | 15 min | 4413 | 0.93 | 0.95 | 0.09 | 0.97 | 0.87 | 0.97 | 0.82 | 0.60 | 0.59 | 0.97 | 0.00 | 0.4% |
| SC-189.01 | 15 min | 4415 | 0.70 | 0.71 | 0.08 | 0.71 | 0.68 | 0.71 | 0.60 | 0.44 | 0.44 | 0.71 | 0.00 | 0.0% |
| SC-189.02 | 15 min | 4381 | 1.27 | 1.29 | 0.12 | 1.30 | 1.21 | 1.30 | 1.10 | 0.84 | 0.82 | 1.30 | 0.00 | 0.0% |
| SC-19.01 | 15 min | 4413 | 0.30 | 0.31 | 0.03 | 0.32 | 0.27 | 0.33 | 0.27 | 0.20 | 0.19 | 0.33 | 0.01 | 3.7% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-190.01 | 15 min | 4415 | 0.31 | 0.31 | 0.03 | 0.31 | 0.30 | 0.31 | 0.26 | 0.19 | 0.20 | 0.31 | 0.00 | 0.6% |
| SC-191.01 | 15 min | 4415 | 0.56 | 0.57 | 0.06 | 0.57 | 0.54 | 0.57 | 0.48 | 0.35 | 0.36 | 0.57 | 0.00 | 0.2% |
| SC-191.02 | 15 min | 4416 | 0.82 | 0.84 | 0.08 | 0.85 | 0.78 | 0.86 | 0.73 | 0.53 | 0.53 | 0.86 | 0.01 | 0.9% |
| SC-191.03 | 15 min | 4408 | 1.53 | 1.57 | 0.13 | 1.58 | 1.40 | 1.61 | 1.38 | 1.02 | 0.98 | 1.61 | 0.03 | 1.7% |
| SC-191.04 | 15 min | 4408 | 2.25 | 2.30 | 0.19 | 2.31 | 2.05 | 2.36 | 2.02 | 1.50 | 1.44 | 2.36 | 0.05 | 2.0% |
| SC-191.05 | 15 min | 4411 | 3.11 | 3.12 | 0.23 | 3.13 | 2.93 | 3.26 | 2.84 | 2.12 | 1.99 | 3.26 | 0.13 | 4.1% |
| SC-191.06 | 15 min | 4410 | 5.36 | 5.41 | 0.38 | 5.44 | 4.95 | 5.58 | 4.96 | 3.94 | 3.51 | 5.58 | 0.14 | 2.6% |
| SC-191.07 | 15 min | 4411 | 6.44 | 6.53 | 0.43 | 6.54 | 6.01 | 6.81 | 6.08 | 4.83 | 4.26 | 6.81 | 0.27 | 4.2% |
| SC-191.08 | 15 min | 4415 | 6.97 | 6.97 | 0.36 | 7.07 | 6.75 | 7.07 | 6.37 | 5.40 | 4.78 | 7.07 | 0.00 | 0.0% |
| SC-192.01 | 15 min | 4416 | 1.80 | 1.83 | 0.16 | 1.85 | 1.69 | 1.86 | 1.59 | 1.23 | 1.17 | 1.86 | 0.01 | 0.5% |
| SC-193.01 | 15 min | 4413 | 0.81 | 0.84 | 0.08 | 0.85 | 0.75 | 0.85 | 0.75 | 0.59 | 0.53 | 0.85 | 0.00 | 0.3% |
| SC-194.01 | 15 min | 4413 | 0.83 | 0.84 | 0.08 | 0.85 | 0.74 | 0.92 | 0.85 | 0.67 | 0.57 | 0.92 | 0.07 | 7.8% |
| SC-194.02 | 45 min | 4542 | 2.98 | 2.88 | 0.45 | 2.97 | 2.15 | 2.92 | 3.11 | 3.14 | 2.18 | 3.14 | 0.17 | 5.7% |
| SC-194.03 | 45 min | 4542 | 3.31 | 3.13 | 0.50 | 3.17 | 2.49 | 3.07 | 3.26 | 3.51 | 2.47 | 3.51 | 0.34 | 10.7% |
| SC-195.01 | 45 min | 4542 | 1.02 | 0.98 | 0.15 | 1.01 | 0.61 | 0.90 | 1.04 | 1.07 | 0.76 | 1.07 | 0.06 | 6.2% |
| SC-196.01 | 15 min | 4411 | 2.67 | 2.75 | 0.24 | 2.76 | 2.40 | 2.85 | 2.55 | 2.09 | 1.78 | 2.85 | 0.09 | 3.1% |
| SC-197.01 | 15 min | 4413 | 1.77 | 1.78 | 0.17 | 1.80 | 1.56 | 1.97 | 1.82 | 1.38 | 1.19 | 1.97 | 0.17 | 9.4% |
| SC-198.01 | 20 min | 4436 | 1.60 | 1.57 | 0.20 | 1.59 | 0.97 | 1.53 | 1.77 | 1.44 | 1.08 | 1.77 | 0.18 | 11.6% |
| SC-2.01 | 15 min | 4413 | 0.38 | 0.38 | 0.04 | 0.39 | 0.34 | 0.43 | 0.39 | 0.29 | 0.25 | 0.43 | 0.04 | 9.0% |
| SC-20.01 | 15 min | 4415 | 0.38 | 0.39 | 0.04 | 0.39 | 0.37 | 0.39 | 0.32 | 0.24 | 0.24 | 0.39 | 0.00 | 0.3% |
| SC-200.01 | 15 min | 4416 | 0.56 | 0.57 | 0.05 | 0.57 | 0.54 | 0.58 | 0.49 | 0.38 | 0.36 | 0.58 | 0.01 | 1.0% |
| SC-200.02 | 15 min | 4416 | 0.98 | 0.99 | 0.09 | 1.00 | 0.91 | 1.00 | 0.86 | 0.68 | 0.63 | 1.00 | 0.00 | 0.2% |
| SC-200.03 | 15 min | 4408 | 1.85 | 1.89 | 0.15 | 1.89 | 1.68 | 1.94 | 1.68 | 1.33 | 1.21 | 1.94 | 0.05 | 2.5% |
| SC-200.04 | 15 min | 4411 | 2.71 | 2.78 | 0.24 | 2.85 | 2.39 | 2.95 | 2.54 | 1.96 | 1.76 | 2.95 | 0.10 | 3.4% |
| SC-200.05 | 15 min | 4411 | 4.36 | 4.43 | 0.32 | 4.43 | 3.90 | 4.61 | 4.03 | 3.06 | 2.84 | 4.61 | 0.18 | 4.1% |
| SC-200.06 | 15 min | 4410 | 6.57 | 6.52 | 0.68 | 6.60 | 6.10 | 7.42 | 6.73 | 4.98 | 4.36 | 7.42 | 0.82 | 12.5% |
| SC-200.07 | 15 min | 4410 | 7.52 | 7.56 | 0.92 | 7.66 | 7.05 | 8.66 | 7.93 | 5.91 | 5.14 | 8.66 | 1.00 | 13.1% |
| SC-200.08 | 20 min | 4434 | 8.62 | 8.52 | 1.11 | 8.79 | 7.90 | 9.76 | 9.07 | 6.80 | 5.97 | 9.76 | 0.97 | 11.1% |
| SC-200.09 | 20 min | 4434 | 12.41 | 12.42 | 1.49 | 12.47 | 11.04 | 13.25 | 13.38 | 9.85 | 8.80 | 13.38 | 0.90 | 7.3% |
| SC-201.01 | 15 min | 4415 | 0.69 | 0.70 | 0.07 | 0.70 | 0.66 | 0.70 | 0.59 | 0.44 | 0.43 | 0.70 | 0.00 | -0.2% |
| SC-202.01 | 15 min | 4415 | 0.70 | 0.70 | 0.08 | 0.70 | 0.68 | 0.70 | 0.58 | 0.43 | 0.43 | 0.70 | 0.00 | -0.1% |
| SC-203.01 | 15 min | 4381 | 0.71 | 0.73 | 0.07 | 0.73 | 0.68 | 0.74 | 0.63 | 0.47 | 0.46 | 0.74 | 0.01 | 2.0% |
| SC-204.01 | 15 min | 4409 | 0.95 | 0.94 | 0.10 | 0.98 | 0.85 | 1.09 | 0.94 | 0.68 | 0.61 | 1.09 | 0.11 | 11.1% |
| SC-205.01 | 20 min | 4435 | 0.37 | 0.37 | 0.06 | 0.39 | 0.29 | 0.40 | 0.42 | 0.33 | 0.24 | 0.42 | 0.03 | 6.8% |
| SC-206.01 | 20 min | 4435 | 2.78 | 2.73 | 0.53 | 2.84 | 2.44 | 3.42 | 3.13 | 2.25 | 1.77 | 3.42 | 0.58 | 20.2% |
| SC-207.01 | 15 min | 4381 | 0.68 | 0.69 | 0.06 | 0.69 | 0.64 | 0.69 | 0.58 | 0.44 | 0.43 | 0.69 | 0.00 | 0.2% |
| SC-207.02 | 15 min | 4408 | 1.34 | 1.37 | 0.11 | 1.38 | 1.23 | 1.40 | 1.19 | 0.89 | 0.86 | 1.40 | 0.02 | 1.3% |
| SC-207.03 | 15 min | 4411 | 1.47 | 1.49 | 0.12 | 1.51 | 1.34 | 1.56 | 1.35 | 1.02 | 0.97 | 1.56 | 0.05 | 3.1% |
| SC-207.04 | 15 min | 4410 | 4.07 | 4.09 | 0.24 | 4.20 | 3.97 | 4.21 | 3.77 | 2.82 | 2.60 | 4.21 | 0.01 | 0.2% |
| SC-207.05 | 10 min | 4375 | 5.48 | 5.45 | 0.10 | 5.45 | 5.38 | 5.61 | 5.11 | 3.79 | 3.44 | 5.61 | 0.16 | 2.9% |
| SC-207.06 | 10 min | 4375 | 5.98 | 5.98 | 0.08 | 5.99 | 5.92 | 5.86 | 5.48 | 4.05 | 3.72 | 5.92 | -0.07 | -1.2% |
| SC-207.07 | 10 min | 4376 | 9.52 | 9.59 | 0.35 | 9.63 | 9.44 | 10.27 | 9.66 | 7.42 | 6.19 | 10.27 | 0.64 | 6.7% |
| SC-207.08 | 10 min | 4375 | 14.42 | 14.42 | 0.27 | 14.44 | 14.15 | 15.11 | 14.19 | 10.95 | 9.59 | 15.11 | 0.67 | 4.6% |
| SC-207.09 | 15 min | 4412 | 16.43 | 16.38 | 1.05 | 16.82 | 16.11 | 17.10 | 16.31 | 12.65 | 11.13 | 17.10 | 0.28 | 1.7% |
| SC-207.10 | 15 min | 4415 | 17.00 | 16.98 | 1.02 | 17.43 | 16.52 | 17.43 | 16.76 | 13.16 | 11.59 | 17.43 | 0.00 | 0.0% |
| SC-207.11 | 15 min | 4415 | 18.28 | 18.14 | 1.08 | 18.27 | 17.53 | 18.27 | 17.92 | 14.25 | 12.63 | 18.27 | 0.00 | 0.0% |
| SC-207.12 | 15 min | 4415 | 26.53 | 26.64 | 1.79 | 27.11 | 25.22 | 27.11 | 25.91 | 20.47 | 17.87 | 27.11 | 0.00 | 0.0% |
| SC-207.13 | 15 min | 4415 | 27.84 | 27.87 | 1.76 | 28.08 | 26.21 | 28.08 | 27.30 | 21.83 | 19.11 | 28.08 | 0.00 | 0.0% |
| SC-207.14 | 15 min | 4415 | 28.78 | 28.62 | 1.61 | 28.66 | 26.86 | 28.66 | 28.14 | 22.92 | 20.03 | 28.66 | 0.00 | 0.0% |
| SC-208.01 | 15 min | 4415 | 0.72 | 0.71 | 0.08 | 0.71 | 0.70 | 0.71 | 0.59 | 0.44 | 0.45 | 0.71 | 0.00 | 0.3% |
| SC-208.02 | 15 min | 4415 | 1.04 | 1.05 | 0.11 | 1.05 | 1.00 | 1.05 | 0.88 | 0.66 | 0.66 | 1.05 | 0.00 | -0.1% |
| SC-208.03 | 15 min | 4416 | 1.40 | 1.42 | 0.13 | 1.42 | 1.32 | 1.43 | 1.21 | 0.90 | 0.88 | 1.43 | 0.01 | 0.7% |
| SC-208.04 | 15 min | 4408 | 2.17 | 2.19 | 0.15 | 2.20 | 2.11 | 2.25 | 1.96 | 1.44 | 1.39 | 2.25 | 0.05 | 2.3% |
| SC-208.05 | 10 min | 4377 | 2.52 | 2.49 | 0.08 | 2.50 | 2.49 | 2.50 | 2.27 | 1.69 | 1.58 | 2.50 | 0.00 | -0.1% |
| SC-209.01 | 15 min | 4415 | 0.46 | 0.46 | 0.05 | 0.46 | 0.44 | 0.46 | 0.39 | 0.30 | 0.29 | 0.46 | 0.00 | 0.8% |
| SC-21.01 | 15 min | 4415 | 0.54 | 0.55 | 0.06 | 0.55 | 0.53 | 0.55 | 0.46 | 0.34 | 0.35 | 0.55 | 0.00 | 0.3% |
| SC-210.01 | 15 min | 4415 | 1.01 | 1.03 | 0.10 | 1.03 | 0.96 | 1.03 | 0.87 | 0.66 | 0.63 | 1.03 | 0.00 | 0.1% |
| SC-210.02 | 15 min | 4416 | 1.42 | 1.44 | 0.13 | 1.46 | 1.32 | 1.47 | 1.25 | 0.94 | 0.89 | 1.47 | 0.01 | 0.4% |
| SC-211.01 | 45 min | 4542 | 0.34 | 0.33 | 0.05 | 0.34 | 0.24 | 0.33 | 0.37 | 0.36 | 0.25 | 0.37 | 0.03 | 7.4% |
| SC-211.02 | 45 min | 4536 | 0.78 | 0.75 | 0.11 | 0.77 | 0.40 | 0.60 | 0.71 | 0.83 | 0.59 | 0.83 | 0.06 | 7.8% |
| SC-211.03 | 45 min | 4542 | 1.26 | 1.21 | 0.18 | 1.25 | 0.78 | 1.13 | 1.24 | 1.31 | 0.95 | 1.31 | 0.06 | 4.8% |
| SC-211.04 | 45 min | 4542 | 1.50 | 1.42 | 0.21 | 1.48 | 1.07 | 1.42 | 1.55 | 1.53 | 1.13 | 1.55 | 0.07 | 4.7% |
| SC-212.01 | 1 hour | 4570 | 0.13 | 0.13 | 0.01 | 0.13 | 0.07 | 0.09 | 0.10 | 0.12 | 0.10 | 0.12 | -0.01 | -8.1% |
| SC-212.02 | 1 hour | 4565 | 0.27 | 0.27 | 0.04 | 0.27 | 0.19 | 0.26 | 0.29 | 0.27 | 0.20 | 0.29 | 0.02 | 7.2% |
| SC-213.01 | 15 min | 4415 | 0.42 | 0.42 | 0.05 | 0.42 | 0.41 | 0.42 | 0.35 | 0.26 | 0.27 | 0.42 | 0.00 | -0.5% |
| SC-213.02 | 15 min | 4416 | 0.71 | 0.72 | 0.07 | 0.73 | 0.67 | 0.73 | 0.61 | 0.45 | 0.45 | 0.73 | 0.00 | 0.3% |
| SC-214.01 | 15 min | 4413 | 0.51 | 0.53 | 0.06 | 0.53 | 0.50 | 0.53 | 0.44 | 0.32 | 0.33 | 0.53 | 0.00 | -0.5% |
| SC-214.02 | 15 min | 4415 | 1.11 | 1.13 | 0.12 | 1.13 | 1.08 | 1.13 | 0.94 | 0.70 | 0.71 | 1.13 | 0.00 | 0.0% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-215.01 | 15 min | 4416 | 0.42 | 0.42 | 0.04 | 0.43 | 0.38 | 0.43 | 0.36 | 0.28 | 0.27 | 0.43 | 0.00 | -0.5% |
| SC-215.02 | 15 min | 4408 | 0.76 | 0.78 | 0.06 | 0.79 | 0.70 | 0.80 | 0.68 | 0.51 | 0.48 | 0.80 | 0.01 | 0.7% |
| SC-216.01 | 15 min | 4415 | 0.38 | 0.38 | 0.04 | 0.38 | 0.38 | 0.38 | 0.31 | 0.23 | 0.24 | 0.38 | 0.00 | -0.2% |
| SC-216.02 | 15 min | 4415 | 1.18 | 1.18 | 0.13 | 1.18 | 1.15 | 1.18 | 0.98 | 0.73 | 0.75 | 1.18 | 0.00 | 0.3% |
| SC-216.03 | 15 min | 4416 | 1.89 | 1.92 | 0.18 | 1.92 | 1.78 | 1.94 | 1.62 | 1.19 | 1.20 | 1.94 | 0.02 | 0.8% |
| SC-216.04 | 10 min | 4372 | 2.62 | 2.55 | 0.15 | 2.56 | 2.61 | 2.49 | 2.29 | 1.70 | 1.70 | 2.61 | 0.05 | 1.9% |
| SC-217.01 | 15 min | 4415 | 0.27 | 0.27 | 0.03 | 0.27 | 0.27 | 0.27 | 0.22 | 0.16 | 0.17 | 0.27 | 0.00 | 0.0% |
| SC-218.01 | 15 min | 4415 | 0.21 | 0.21 | 0.02 | 0.21 | 0.21 | 0.21 | 0.17 | 0.13 | 0.13 | 0.21 | 0.00 | -1.6% |
| SC-219.01 | 15 min | 4415 | 0.27 | 0.27 | 0.03 | 0.27 | 0.27 | 0.27 | 0.23 | 0.17 | 0.17 | 0.27 | 0.00 | 1.3% |
| SC-22.01 | 15 min | 4413 | 0.30 | 0.31 | 0.03 | 0.31 | 0.29 | 0.31 | 0.26 | 0.19 | 0.19 | 0.31 | 0.00 | 0.6% |
| SC-220.01 | 15 min | 4415 | 0.42 | 0.43 | 0.05 | 0.43 | 0.41 | 0.43 | 0.36 | 0.27 | 0.27 | 0.43 | 0.00 | 0.6% |
| SC-221.01 | 15 min | 4413 | 0.39 | 0.40 | 0.04 | 0.40 | 0.38 | 0.40 | 0.34 | 0.25 | 0.25 | 0.40 | 0.00 | 0.4% |
| SC-221.02 | 15 min | 4408 | 0.87 | 0.89 | 0.07 | 0.89 | 0.79 | 0.92 | 0.77 | 0.57 | 0.55 | 0.92 | 0.03 | 2.8% |
| SC-221.03 | 15 min | 4408 | 1.06 | 1.09 | 0.09 | 1.10 | 0.98 | 1.11 | 0.95 | 0.70 | 0.68 | 1.11 | 0.01 | 1.2% |
| SC-221.04 | 15 min | 4408 | 1.56 | 1.60 | 0.13 | 1.61 | 1.43 | 1.63 | 1.40 | 1.03 | 1.00 | 1.63 | 0.02 | 1.5% |
| SC-221.05 | 15 min | 4411 | 2.00 | 2.01 | 0.15 | 2.03 | 1.87 | 2.11 | 1.84 | 1.35 | 1.28 | 2.11 | 0.08 | 3.8% |
| SC-221.06 | 15 min | 4410 | 2.11 | 2.13 | 0.15 | 2.14 | 2.01 | 2.20 | 1.92 | 1.44 | 1.35 | 2.20 | 0.06 | 2.8% |
| SC-222.01 | 15 min | 4415 | 0.43 | 0.43 | 0.04 | 0.44 | 0.41 | 0.44 | 0.37 | 0.28 | 0.27 | 0.44 | -0.01 | -1.1% |
| SC-222.02 | 15 min | 4416 | 0.69 | 0.71 | 0.06 | 0.72 | 0.64 | 0.72 | 0.62 | 0.46 | 0.44 | 0.72 | 0.00 | 0.0% |
| SC-222.03 | 15 min | 4410 | 1.50 | 1.45 | 0.19 | 1.46 | 1.38 | 1.75 | 1.50 | 1.10 | 1.00 | 1.75 | 0.29 | 20.0% |
| SC-223.01 | 15 min | 4416 | 0.18 | 0.19 | 0.02 | 0.19 | 0.18 | 0.19 | 0.16 | 0.12 | 0.12 | 0.19 | 0.00 | -1.5% |
| SC-224.01 | 20 min | 4435 | 0.49 | 0.47 | 0.08 | 0.47 | 0.34 | 0.53 | 0.56 | 0.40 | 0.32 | 0.56 | 0.09 | 18.3% |
| SC-225.01 | 15 min | 4381 | 0.34 | 0.34 | 0.03 | 0.34 | 0.32 | 0.35 | 0.29 | 0.22 | 0.21 | 0.35 | 0.00 | 1.5% |
| SC-226.01 | 15 min | 4415 | 0.25 | 0.25 | 0.03 | 0.25 | 0.25 | 0.25 | 0.21 | 0.15 | 0.16 | 0.25 | 0.00 | -0.5% |
| SC-226.02 | 15 min | 4408 | 0.60 | 0.61 | 0.05 | 0.61 | 0.55 | 0.63 | 0.52 | 0.38 | 0.37 | 0.63 | 0.02 | 2.9% |
| SC-226.03 | 15 min | 4411 | 1.24 | 1.26 | 0.10 | 1.27 | 1.11 | 1.32 | 1.12 | 0.82 | 0.78 | 1.32 | 0.04 | 3.5% |
| SC-226.04 | 15 min | 4408 | 1.86 | 1.89 | 0.15 | 1.91 | 1.69 | 1.95 | 1.67 | 1.24 | 1.17 | 1.95 | 0.04 | 1.9% |
| SC-226.05 | 15 min | 4411 | 7.37 | 7.45 | 0.56 | 7.49 | 6.65 | 7.74 | 6.71 | 5.08 | 4.77 | 7.74 | 0.25 | 3.3% |
| SC-226.06 | 15 min | 4410 | 8.01 | 8.09 | 0.50 | 8.21 | 7.51 | 8.30 | 7.33 | 5.57 | 5.27 | 8.30 | 0.09 | 1.1% |
| SC-226.07 | 15 min | 4415 | 8.58 | 8.55 | 0.46 | 8.58 | 8.28 | 8.58 | 7.83 | 6.02 | 5.77 | 8.58 | 0.00 | 0.0% |
| SC-226.08 | 15 min | 4415 | 8.93 | 8.89 | 0.47 | 8.89 | 8.71 | 8.89 | 8.21 | 6.30 | 6.04 | 8.89 | 0.00 | 0.0% |
| SC-227.01 | 15 min | 4415 | 0.13 | 0.13 | 0.01 | 0.13 | 0.13 | 0.13 | 0.11 | 0.08 | 0.08 | 0.13 | 0.00 | 2.8% |
| SC-228.01 | 15 min | 4415 | 0.28 | 0.28 | 0.03 | 0.28 | 0.27 | 0.28 | 0.24 | 0.18 | 0.18 | 0.28 | 0.00 | 1.3% |
| SC-229.01 | 15 min | 4415 | 0.20 | 0.20 | 0.02 | 0.20 | 0.19 | 0.20 | 0.17 | 0.13 | 0.12 | 0.20 | 0.00 | -0.4% |
| SC-23.01 | 15 min | 4415 | 0.40 | 0.40 | 0.04 | 0.40 | 0.39 | 0.40 | 0.34 | 0.25 | 0.25 | 0.40 | 0.00 | 1.0% |
| SC-23.02 | 15 min | 4411 | 1.20 | 1.22 | 0.10 | 1.24 | 1.06 | 1.28 | 1.07 | 0.79 | 0.76 | 1.28 | 0.04 | 3.5% |
| SC-23.03 | 15 min | 4411 | 1.49 | 1.51 | 0.12 | 1.52 | 1.33 | 1.58 | 1.34 | 0.98 | 0.93 | 1.58 | 0.06 | 4.1% |
| SC-230.01 | 15 min | 4416 | 0.19 | 0.20 | 0.02 | 0.20 | 0.18 | 0.20 | 0.17 | 0.13 | 0.12 | 0.20 | 0.00 | -1.0% |
| SC-231.01 | 15 min | 4416 | 0.21 | 0.22 | 0.02 | 0.22 | 0.20 | 0.22 | 0.19 | 0.14 | 0.13 | 0.22 | 0.00 | -0.2% |
| SC-232.01 | 15 min | 4415 | 0.54 | 0.55 | 0.05 | 0.55 | 0.52 | 0.55 | 0.47 | 0.36 | 0.35 | 0.55 | 0.00 | 0.2% |
| SC-232.02 | 15 min | 4416 | 0.86 | 0.88 | 0.07 | 0.89 | 0.80 | 0.89 | 0.76 | 0.57 | 0.55 | 0.89 | 0.00 | 0.1% |
| SC-232.03 | 15 min | 4408 | 2.00 | 2.04 | 0.17 | 2.04 | 1.81 | 2.10 | 1.79 | 1.33 | 1.27 | 2.10 | 0.06 | 3.0% |
| SC-233.01 | 15 min | 4415 | 0.38 | 0.38 | 0.04 | 0.39 | 0.36 | 0.39 | 0.33 | 0.24 | 0.24 | 0.39 | 0.00 | -1.1% |
| SC-233.02 | 15 min | 4408 | 0.63 | 0.65 | 0.06 | 0.66 | 0.59 | 0.66 | 0.56 | 0.41 | 0.40 | 0.66 | 0.00 | 0.7% |
| SC-234.01 | 15 min | 4415 | 0.54 | 0.55 | 0.06 | 0.55 | 0.52 | 0.55 | 0.47 | 0.35 | 0.34 | 0.55 | 0.00 | 0.9% |
| SC-234.02 | 15 min | 4408 | 1.08 | 1.10 | 0.09 | 1.11 | 0.98 | 1.13 | 0.96 | 0.72 | 0.69 | 1.13 | 0.02 | 1.4% |
| SC-234.03 | 15 min | 4411 | 3.16 | 3.22 | 0.26 | 3.26 | 2.83 | 3.36 | 2.93 | 2.21 | 2.05 | 3.36 | 0.10 | 3.0% |
| SC-235.01 | 15 min | 4415 | 0.20 | 0.20 | 0.02 | 0.20 | 0.20 | 0.20 | 0.16 | 0.12 | 0.13 | 0.20 | 0.00 | -1.3% |
| SC-236.01 | 15 min | 4415 | 0.25 | 0.26 | 0.03 | 0.26 | 0.25 | 0.26 | 0.21 | 0.16 | 0.16 | 0.26 | 0.00 | -1.3% |
| SC-236.02 | 15 min | 4415 | 0.40 | 0.40 | 0.04 | 0.40 | 0.38 | 0.40 | 0.34 | 0.25 | 0.25 | 0.40 | 0.00 | 0.8% |
| SC-237.01 | 15 min | 4415 | 0.34 | 0.35 | 0.04 | 0.35 | 0.33 | 0.35 | 0.30 | 0.23 | 0.22 | 0.35 | 0.00 | 0.8% |
| SC-237.02 | 15 min | 4409 | 0.75 | 0.75 | 0.07 | 0.78 | 0.66 | 0.83 | 0.77 | 0.59 | 0.51 | 0.83 | 0.05 | 7.0% |
| SC-238.01 | 15 min | 4415 | 0.22 | 0.23 | 0.02 | 0.23 | 0.22 | 0.23 | 0.19 | 0.14 | 0.14 | 0.23 | 0.00 | -1.9% |
| SC-238.02 | 15 min | 4408 | 0.53 | 0.54 | 0.05 | 0.55 | 0.49 | 0.55 | 0.46 | 0.34 | 0.33 | 0.55 | 0.00 | -0.1% |
| SC-239.01 | 15 min | 4415 | 0.29 | 0.30 | 0.03 | 0.30 | 0.28 | 0.30 | 0.25 | 0.18 | 0.19 | 0.30 | 0.00 | -1.2% |
| SC-24.01 | 15 min | 4415 | 0.35 | 0.35 | 0.04 | 0.36 | 0.34 | 0.36 | 0.29 | 0.22 | 0.22 | 0.36 | 0.00 | -1.3% |
| SC-240.01 | 20 min | 4435 | 0.67 | 0.67 | 0.07 | 0.69 | 0.44 | 0.64 | 0.72 | 0.69 | 0.48 | 0.72 | 0.03 | 3.6% |
| SC-240.02 | 20 min | 4435 | 1.00 | 0.99 | 0.13 | 1.05 | 0.82 | 1.08 | 1.09 | 1.00 | 0.73 | 1.09 | 0.03 | 3.3% |
| SC-241.01 | 20 min | 4435 | 3.15 | 3.03 | 0.55 | 3.05 | 2.37 | 3.62 | 3.57 | 2.51 | 2.05 | 3.62 | 0.57 | 18.7% |
| SC-242.01 | 15 min | 4415 | 0.41 | 0.41 | 0.04 | 0.41 | 0.39 | 0.41 | 0.35 | 0.27 | 0.26 | 0.41 | 0.00 | 0.8% |
| SC-242.02 | 15 min | 4416 | 1.06 | 1.08 | 0.09 | 1.09 | 0.97 | 1.10 | 0.93 | 0.71 | 0.67 | 1.10 | 0.01 | 0.6% |
| SC-242.03 | 15 min | 4408 | 1.58 | 1.61 | 0.13 | 1.62 | 1.44 | 1.64 | 1.39 | 1.06 | 1.01 | 1.64 | 0.02 | 1.1% |
| SC-242.04 | 15 min | 4408 | 1.68 | 1.70 | 0.13 | 1.72 | 1.54 | 1.74 | 1.48 | 1.13 | 1.07 | 1.74 | 0.02 | 1.2% |
| SC-242.05 | 15 min | 4411 | 3.68 | 3.72 | 0.27 | 3.73 | 3.39 | 3.89 | 3.34 | 2.48 | 2.31 | 3.89 | 0.16 | 4.2% |
| SC-242.06 | 15 min | 4411 | 4.80 | 4.88 | 0.34 | 4.89 | 4.52 | 5.14 | 4.49 | 3.28 | 3.00 | 5.14 | 0.25 | 5.1% |
| SC-242.07 | 15 min | 4410 | 5.13 | 5.17 | 0.39 | 5.24 | 4.84 | 5.55 | 4.85 | 3.58 | 3.26 | 5.55 | 0.31 | 6.0% |
| SC-242.08 | 15 min | 4410 | 9.26 | 9.45 | 1.13 | 9.65 | 8.77 | 10.61 | 9.72 | 7.14 | 6.25 | 10.61 | 0.96 | 10.0% |
| SC-243.01 | 15 min | 4415 | 0.38 | 0.38 | 0.04 | 0.38 | 0.36 | 0.38 | 0.32 | 0.24 | 0.23 | 0.38 | 0.00 | 0.0% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-243.02 | 15 min | 4416 | 1.41 | 1.44 | 0.13 | 1.46 | 1.33 | 1.46 | 1.24 | 0.92 | 0.89 | 1.46 | 0.00 | -0.1% |
| SC-244.01 | 15 min | 4415 | 0.53 | 0.53 | 0.06 | 0.53 | 0.52 | 0.53 | 0.45 | 0.33 | 0.34 | 0.53 | 0.00 | 0.9% |
| SC-245.01 | 15 min | 4415 | 0.28 | 0.28 | 0.03 | 0.28 | 0.27 | 0.28 | 0.24 | 0.18 | 0.18 | 0.28 | 0.00 | 1.4% |
| SC-246.01 | 15 min | 4416 | 0.19 | 0.19 | 0.02 | 0.19 | 0.18 | 0.19 | 0.16 | 0.12 | 0.12 | 0.19 | 0.00 | 2.2% |
| SC-246.02 | 15 min | 4410 | 0.49 | 0.48 | 0.07 | 0.49 | 0.46 | 0.58 | 0.49 | 0.36 | 0.32 | 0.58 | 0.09 | 18.6% |
| SC-247.01 | 15 min | 4411 | 0.52 | 0.53 | 0.05 | 0.53 | 0.48 | 0.56 | 0.47 | 0.34 | 0.33 | 0.56 | 0.03 | 4.9% |
| SC-247.02 | 20 min | 4435 | 1.20 | 1.18 | 0.21 | 1.22 | 1.10 | 1.48 | 1.31 | 0.95 | 0.79 | 1.48 | 0.26 | 21.6% |
| SC-248.01 | 15 min | 4414 | 0.59 | 0.57 | 0.09 | 0.57 | 0.50 | 0.72 | 0.65 | 0.47 | 0.38 | 0.72 | 0.15 | 26.6% |
| SC-249.01 | 20 min | 4435 | 0.13 | 0.13 | 0.01 | 0.13 | 0.08 | 0.12 | 0.14 | 0.13 | 0.10 | 0.14 | 0.01 | 8.5% |
| SC-249.02 | 20 min | 4444 | 0.43 | 0.43 | 0.07 | 0.45 | 0.38 | 0.49 | 0.47 | 0.38 | 0.30 | 0.49 | 0.04 | 9.2% |
| SC-249.03 | 15 min | 4409 | 0.94 | 0.95 | 0.09 | 0.96 | 0.84 | 1.04 | 0.94 | 0.74 | 0.62 | 1.04 | 0.08 | 7.8% |
| SC-249.04 | 15 min | 4411 | 2.34 | 2.38 | 0.19 | 2.42 | 2.08 | 2.51 | 2.23 | 1.73 | 1.51 | 2.51 | 0.09 | 3.7% |
| SC-249.05 | 15 min | 4409 | 6.83 | 6.92 | 0.56 | 7.00 | 6.20 | 7.43 | 6.58 | 4.95 | 4.39 | 7.43 | 0.43 | 6.1% |
| SC-249.06 | 20 min | 4434 | 10.72 | 10.48 | 1.44 | 10.59 | 10.04 | 12.09 | 11.63 | 8.59 | 7.46 | 12.09 | 1.50 | 14.1% |
| SC-25.01 | 15 min | 4415 | 1.05 | 1.07 | 0.12 | 1.07 | 1.03 | 1.07 | 0.89 | 0.66 | 0.67 | 1.07 | 0.00 | -0.2% |
| SC-25.02 | 15 min | 4416 | 1.53 | 1.56 | 0.14 | 1.58 | 1.43 | 1.59 | 1.34 | 0.98 | 0.97 | 1.59 | 0.01 | 0.6% |
| SC-25.03 | 15 min | 4416 | 1.67 | 1.70 | 0.15 | 1.72 | 1.57 | 1.73 | 1.47 | 1.09 | 1.07 | 1.73 | 0.01 | 0.5% |
| SC-25.04 | 15 min | 4408 | 2.80 | 2.88 | 0.25 | 2.89 | 2.56 | 2.96 | 2.54 | 1.87 | 1.80 | 2.96 | 0.07 | 2.6% |
| SC-250.01 | 15 min | 4415 | 0.12 | 0.13 | 0.01 | 0.13 | 0.12 | 0.13 | 0.10 | 0.08 | 0.08 | 0.13 | 0.00 | -3.5% |
| SC-251.01 | 15 min | 4416 | 0.30 | 0.30 | 0.03 | 0.30 | 0.28 | 0.30 | 0.26 | 0.20 | 0.19 | 0.30 | 0.00 | 1.5% |
| SC-252.01 | 15 min | 4413 | 0.34 | 0.35 | 0.03 | 0.36 | 0.32 | 0.36 | 0.32 | 0.25 | 0.22 | 0.36 | 0.00 | 0.3% |
| SC-252.02 | 15 min | 4413 | 0.64 | 0.65 | 0.06 | 0.66 | 0.60 | 0.66 | 0.58 | 0.44 | 0.41 | 0.66 | 0.00 | 0.7% |
| SC-253.01 | 15 min | 4415 | 0.50 | 0.51 | 0.05 | 0.51 | 0.48 | 0.51 | 0.43 | 0.32 | 0.31 | 0.51 | 0.00 | -0.3% |
| SC-253.02 | 15 min | 4416 | 1.85 | 1.88 | 0.16 | 1.91 | 1.72 | 1.91 | 1.64 | 1.23 | 1.17 | 1.91 | 0.00 | 0.1% |
| SC-253.03 | 15 min | 4416 | 2.26 | 2.30 | 0.20 | 2.32 | 2.10 | 2.33 | 1.99 | 1.51 | 1.45 | 2.33 | 0.01 | 0.6% |
| SC-254.01 | 15 min | 4416 | 0.51 | 0.52 | 0.05 | 0.52 | 0.48 | 0.52 | 0.45 | 0.34 | 0.32 | 0.52 | 0.00 | 0.2% |
| SC-255.01 | 15 min | 4411 | 0.48 | 0.49 | 0.05 | 0.49 | 0.44 | 0.51 | 0.45 | 0.35 | 0.31 | 0.51 | 0.02 | 3.8% |
| SC-256.01 | 15 min | 4413 | 0.42 | 0.43 | 0.04 | 0.43 | 0.40 | 0.44 | 0.38 | 0.28 | 0.27 | 0.44 | 0.01 | 3.1% |
| SC-257.01 | 15 min | 4413 | 0.24 | 0.24 | 0.02 | 0.25 | 0.23 | 0.25 | 0.21 | 0.15 | 0.15 | 0.25 | 0.00 | 0.2% |
| SC-258.01 | 15 min | 4413 | 1.09 | 1.12 | 0.11 | 1.12 | 1.02 | 1.16 | 0.97 | 0.71 | 0.69 | 1.16 | 0.04 | 3.5% |
| SC-258.02 | 15 min | 4412 | 1.73 | 1.61 | 0.25 | 1.62 | 1.60 | 2.09 | 1.82 | 1.33 | 1.14 | 2.09 | 0.47 | 29.0% |
| SC-259.01 | 15 min | 4415 | 0.47 | 0.47 | 0.05 | 0.47 | 0.45 | 0.47 | 0.39 | 0.30 | 0.29 | 0.47 | 0.00 | 0.3% |
| SC-259.02 | 15 min | 4416 | 1.00 | 1.01 | 0.08 | 1.02 | 0.91 | 1.03 | 0.87 | 0.66 | 0.63 | 1.03 | 0.01 | 0.9% |
| SC-259.03 | 15 min | 4408 | 1.41 | 1.43 | 0.12 | 1.45 | 1.28 | 1.46 | 1.23 | 0.94 | 0.88 | 1.46 | 0.01 | 0.5% |
| SC-259.04 | 15 min | 4416 | 2.56 | 2.60 | 0.21 | 2.63 | 2.36 | 2.64 | 2.23 | 1.70 | 1.62 | 2.64 | 0.01 | 0.3% |
| SC-259.05 | 15 min | 4408 | 3.13 | 3.18 | 0.25 | 3.19 | 2.89 | 3.24 | 2.76 | 2.10 | 1.96 | 3.24 | 0.05 | 1.7% |
| SC-259.06 | 15 min | 4408 | 4.04 | 4.11 | 0.31 | 4.11 | 3.73 | 4.16 | 3.54 | 2.71 | 2.52 | 4.16 | 0.05 | 1.2% |
| SC-259.07 | 10 min | 4372 | 5.24 | 5.18 | 0.18 | 5.19 | 5.23 | 4.56 | 4.46 | 3.39 | 3.28 | 5.23 | 0.04 | 0.8% |
| SC-259.08 | 10 min | 4372 | 6.15 | 6.11 | 0.16 | 6.12 | 6.17 | 5.54 | 5.33 | 3.89 | 3.79 | 6.17 | 0.05 | 0.8% |
| SC-259.09 | 10 min | 4372 | 14.98 | 14.89 | 0.31 | 14.92 | 15.01 | 15.10 | 15.02 | 11.15 | 10.55 | 15.10 | 0.18 | 1.2% |
| SC-259.10 | 10 min | 4372 | 15.25 | 15.19 | 0.29 | 15.21 | 15.30 | 15.37 | 15.30 | 11.43 | 10.78 | 15.37 | 0.16 | 1.0% |
| SC-26.01 | 15 min | 4416 | 0.33 | 0.33 | 0.03 | 0.34 | 0.31 | 0.34 | 0.28 | 0.21 | 0.21 | 0.34 | 0.00 | -1.0% |
| SC-260.01 | 15 min | 4415 | 0.31 | 0.31 | 0.03 | 0.31 | 0.30 | 0.31 | 0.26 | 0.20 | 0.19 | 0.31 | 0.00 | 0.7% |
| SC-261.01 | 15 min | 4415 | 0.40 | 0.40 | 0.04 | 0.40 | 0.38 | 0.40 | 0.34 | 0.26 | 0.26 | 0.40 | 0.00 | 0.7% |
| SC-262.01 | 15 min | 4415 | 0.45 | 0.45 | 0.05 | 0.46 | 0.43 | 0.46 | 0.39 | 0.29 | 0.28 | 0.46 | -0.01 | -1.1% |
| SC-262.02 | 15 min | 4416 | 0.83 | 0.84 | 0.08 | 0.85 | 0.78 | 0.85 | 0.72 | 0.54 | 0.53 | 0.85 | 0.00 | 0.0% |
| SC-263.01 | 15 min | 4415 | 0.47 | 0.48 | 0.05 | 0.49 | 0.45 | 0.49 | 0.41 | 0.31 | 0.30 | 0.49 | 0.00 | -1.0% |
| SC-264.01 | 15 min | 4415 | 0.26 | 0.27 | 0.03 | 0.27 | 0.26 | 0.27 | 0.22 | 0.16 | 0.17 | 0.27 | 0.00 | -1.6% |
| SC-265.01 | 15 min | 4416 | 0.34 | 0.35 | 0.03 | 0.35 | 0.33 | 0.35 | 0.31 | 0.23 | 0.22 | 0.35 | 0.00 | 1.3% |
| SC-265.02 | 15 min | 4409 | 0.85 | 0.83 | 0.10 | 0.84 | 0.74 | 0.98 | 0.91 | 0.70 | 0.60 | 0.98 | 0.14 | 16.8% |
| SC-265.03 | 20 min | 4435 | 1.43 | 1.39 | 0.21 | 1.39 | 1.18 | 1.57 | 1.56 | 1.20 | 1.01 | 1.57 | 0.18 | 12.9% |
| SC-265.04 | 15 min | 4411 | 6.86 | 6.93 | 0.54 | 6.98 | 6.39 | 7.38 | 7.09 | 5.56 | 4.99 | 7.38 | 0.40 | 5.7% |
| SC-266.01 | 15 min | 4408 | 0.44 | 0.46 | 0.04 | 0.46 | 0.40 | 0.48 | 0.44 | 0.34 | 0.30 | 0.48 | 0.02 | 4.4% |
| SC-266.02 | 15 min | 4413 | 0.86 | 0.88 | 0.08 | 0.90 | 0.78 | 0.93 | 0.84 | 0.65 | 0.57 | 0.93 | 0.03 | 2.8% |
| SC-266.03 | 15 min | 4408 | 1.04 | 1.07 | 0.09 | 1.08 | 0.96 | 1.10 | 0.97 | 0.78 | 0.70 | 1.10 | 0.01 | 1.4% |
| SC-266.04 | 15 min | 4409 | 3.97 | 4.04 | 0.35 | 4.14 | 3.45 | 4.35 | 3.92 | 3.08 | 2.71 | 4.35 | 0.21 | 5.0% |
| SC-266.05 | 15 min | 4415 | 4.50 | 4.55 | 0.26 | 4.65 | 4.15 | 4.65 | 4.42 | 3.53 | 3.18 | 4.65 | 0.00 | 0.0% |
| SC-267.01 | 15 min | 4416 | 0.42 | 0.43 | 0.05 | 0.43 | 0.41 | 0.43 | 0.37 | 0.27 | 0.27 | 0.43 | 0.00 | 0.8% |
| SC-268.01 | 15 min | 4416 | 0.71 | 0.73 | 0.07 | 0.73 | 0.67 | 0.73 | 0.63 | 0.48 | 0.45 | 0.73 | 0.00 | 0.2% |
| SC-268.02 | 15 min | 4411 | 1.88 | 1.93 | 0.17 | 1.94 | 1.71 | 2.00 | 1.80 | 1.41 | 1.24 | 2.00 | 0.06 | 3.1% |
| SC-269.01 | 15 min | 4413 | 0.31 | 0.30 | 0.03 | 0.31 | 0.27 | 0.35 | 0.33 | 0.26 | 0.21 | 0.35 | 0.04 | 13.0% |
| SC-27.01 | 15 min | 4408 | 0.35 | 0.35 | 0.03 | 0.35 | 0.31 | 0.38 | 0.34 | 0.25 | 0.22 | 0.38 | 0.03 | 8.3% |
| SC-270.01 | 20 min | 4435 | 0.34 | 0.33 | 0.06 | 0.35 | 0.29 | 0.39 | 0.38 | 0.28 | 0.23 | 0.39 | 0.04 | 12.5% |
| SC-271.01 | 20 min | 4435 | 0.21 | 0.20 | 0.04 | 0.22 | 0.18 | 0.25 | 0.23 | 0.17 | 0.14 | 0.25 | 0.03 | 12.8% |
| SC-272.01 | 20 min | 4435 | 0.49 | 0.48 | 0.08 | 0.52 | 0.41 | 0.56 | 0.55 | 0.43 | 0.34 | 0.56 | 0.04 | 6.7% |
| SC-272.02 | 20 min | 4435 | 1.03 | 1.05 | 0.18 | 1.09 | 0.96 | 1.24 | 1.13 | 0.86 | 0.71 | 1.24 | 0.15 | 13.8% |
| SC-272.03 | 20 min | 4435 | 1.69 | 1.74 | 0.29 | 1.77 | 1.60 | 2.06 | 1.83 | 1.35 | 1.16 | 2.06 | 0.29 | 16.3% |
| SC-273.01 | 15 min | 4412 | 0.48 | 0.45 | 0.08 | 0.46 | 0.46 | 0.58 | 0.49 | 0.36 | 0.31 | 0.58 | 0.12 | 27.0% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-274.01 | 45 min | 4536 | 0.23 | 0.22 | 0.03 | 0.22 | 0.18 | 0.23 | 0.24 | 0.24 | 0.17 | 0.24 | 0.02 | 9.1% |
| SC-274.02 | 15 min | 4411 | 1.02 | 1.04 | 0.09 | 1.07 | 0.90 | 1.10 | 0.97 | 0.78 | 0.68 | 1.10 | 0.03 | 3.2% |
| SC-274.03 | 15 min | 4408 | 2.44 | 2.51 | 0.21 | 2.53 | 2.24 | 2.57 | 2.23 | 1.70 | 1.55 | 2.57 | 0.04 | 1.5% |
| SC-274.04 | 15 min | 4408 | 3.16 | 3.24 | 0.27 | 3.27 | 2.90 | 3.31 | 2.87 | 2.19 | 2.01 | 3.31 | 0.04 | 1.2% |
| SC-274.05 | 15 min | 4409 | 4.08 | 4.15 | 0.37 | 4.19 | 3.65 | 4.48 | 3.83 | 2.89 | 2.68 | 4.48 | 0.29 | 7.0% |
| SC-275.01 | 15 min | 4415 | 0.46 | 0.47 | 0.05 | 0.47 | 0.44 | 0.47 | 0.40 | 0.30 | 0.29 | 0.47 | 0.00 | -0.1% |
| SC-276.01 | 15 min | 4415 | 0.33 | 0.34 | 0.04 | 0.34 | 0.33 | 0.34 | 0.28 | 0.21 | 0.21 | 0.34 | 0.00 | -0.2% |
| SC-277.01 | 15 min | 4413 | 0.43 | 0.44 | 0.04 | 0.44 | 0.40 | 0.46 | 0.38 | 0.28 | 0.27 | 0.46 | 0.02 | 3.7% |
| SC-278.01 | 15 min | 4415 | 0.26 | 0.26 | 0.03 | 0.26 | 0.25 | 0.26 | 0.22 | 0.16 | 0.16 | 0.26 | 0.00 | 1.0% |
| SC-278.02 | 20 min | 4435 | 3.16 | 3.12 | 0.59 | 3.20 | 2.89 | 3.94 | 3.49 | 2.53 | 2.01 | 3.94 | 0.74 | 23.1% |
| SC-279.01 | 15 min | 4409 | 0.45 | 0.44 | 0.05 | 0.45 | 0.40 | 0.53 | 0.47 | 0.34 | 0.30 | 0.53 | 0.08 | 16.9% |
| SC-279.02 | 20 min | 4435 | 3.04 | 3.03 | 0.52 | 3.09 | 2.90 | 3.78 | 3.26 | 2.37 | 2.03 | 3.78 | 0.69 | 22.4% |
| SC-28.01 | 20 min | 4436 | 0.28 | 0.27 | 0.04 | 0.28 | 0.17 | 0.27 | 0.31 | 0.25 | 0.19 | 0.31 | 0.03 | 10.3% |
| SC-28.02 | 20 min | 4435 | 0.65 | 0.64 | 0.11 | 0.69 | 0.57 | 0.75 | 0.72 | 0.56 | 0.45 | 0.75 | 0.06 | 8.5% |
| SC-28.03 | 15 min | 4409 | 0.93 | 0.91 | 0.10 | 0.94 | 0.83 | 1.07 | 1.00 | 0.77 | 0.64 | 1.07 | 0.13 | 13.9% |
| SC-28.04 | 15 min | 4409 | 2.04 | 2.07 | 0.19 | 2.15 | 1.80 | 2.25 | 1.99 | 1.50 | 1.34 | 2.25 | 0.10 | 4.7% |
| SC-280.01 | 15 min | 4408 | 0.43 | 0.44 | 0.04 | 0.44 | 0.39 | 0.47 | 0.42 | 0.31 | 0.28 | 0.47 | 0.03 | 7.0% |
| SC-29.01 | 15 min | 4415 | 0.32 | 0.33 | 0.03 | 0.33 | 0.31 | 0.33 | 0.27 | 0.20 | 0.21 | 0.33 | 0.00 | 0.0% |
| SC-29.02 | 15 min | 4408 | 0.91 | 0.93 | 0.08 | 0.94 | 0.84 | 0.95 | 0.80 | 0.59 | 0.58 | 0.95 | 0.01 | 1.1% |
| SC-3.01 | 15 min | 4413 | 0.39 | 0.39 | 0.04 | 0.40 | 0.34 | 0.44 | 0.41 | 0.30 | 0.26 | 0.44 | 0.04 | 10.9% |
| SC-3.02 | 15 min | 4409 | 1.26 | 1.22 | 0.13 | 1.26 | 1.11 | 1.45 | 1.36 | 1.02 | 0.86 | 1.45 | 0.19 | 14.8% |
| SC-30.01 | 15 min | 4415 | 0.57 | 0.58 | 0.06 | 0.58 | 0.56 | 0.58 | 0.49 | 0.36 | 0.37 | 0.58 | 0.00 | 0.6% |
| SC-30.02 | 15 min | 4408 | 1.06 | 1.09 | 0.09 | 1.09 | 0.97 | 1.12 | 0.94 | 0.69 | 0.67 | 1.12 | 0.03 | 2.9% |
| SC-30.03 | 15 min | 4408 | 1.47 | 1.50 | 0.12 | 1.51 | 1.34 | 1.55 | 1.32 | 0.97 | 0.93 | 1.55 | 0.04 | 2.7% |
| SC-30.04 | 15 min | 4408 | 1.88 | 1.92 | 0.16 | 1.93 | 1.71 | 1.97 | 1.69 | 1.24 | 1.20 | 1.97 | 0.04 | 2.3% |
| SC-31.01 | 15 min | 4413 | 0.40 | 0.41 | 0.04 | 0.41 | 0.35 | 0.44 | 0.37 | 0.27 | 0.25 | 0.44 | 0.03 | 7.4% |
| SC-31.02 | 15 min | 4409 | 0.83 | 0.84 | 0.08 | 0.87 | 0.74 | 0.92 | 0.79 | 0.58 | 0.54 | 0.92 | 0.05 | 6.0% |
| SC-32.01 | 20 min | 4435 | 0.34 | 0.33 | 0.06 | 0.34 | 0.28 | 0.41 | 0.39 | 0.28 | 0.22 | 0.41 | 0.07 | 19.7% |
| SC-32.02 | 20 min | 4436 | 0.49 | 0.48 | 0.08 | 0.48 | 0.36 | 0.53 | 0.56 | 0.40 | 0.32 | 0.56 | 0.08 | 16.1% |
| SC-33.01 | 15 min | 4413 | 0.48 | 0.49 | 0.05 | 0.49 | 0.47 | 0.49 | 0.41 | 0.30 | 0.31 | 0.49 | 0.00 | 0.8% |
| SC-33.02 | 15 min | 4416 | 1.13 | 1.16 | 0.10 | 1.17 | 1.04 | 1.18 | 1.01 | 0.74 | 0.72 | 1.18 | 0.01 | 0.4% |
| SC-34.01 | 15 min | 4408 | 0.39 | 0.40 | 0.03 | 0.40 | 0.35 | 0.41 | 0.34 | 0.25 | 0.24 | 0.41 | 0.01 | 2.8% |
| SC-34.02 | 15 min | 4413 | 0.79 | 0.81 | 0.07 | 0.82 | 0.71 | 0.86 | 0.71 | 0.53 | 0.49 | 0.86 | 0.04 | 4.7% |
| SC-34.03 | 15 min | 4411 | 0.92 | 0.94 | 0.09 | 0.96 | 0.86 | 0.98 | 0.86 | 0.63 | 0.60 | 0.98 | 0.02 | 2.1% |
| SC-35.01 | 15 min | 4415 | 0.35 | 0.34 | 0.04 | 0.34 | 0.34 | 0.34 | 0.28 | 0.21 | 0.22 | 0.34 | 0.00 | 0.6% |
| SC-35.02 | 15 min | 4415 | 0.98 | 0.99 | 0.09 | 0.99 | 0.93 | 0.99 | 0.82 | 0.61 | 0.62 | 0.99 | 0.00 | -0.1% |
| SC-35.03 | 15 min | 4415 | 1.56 | 1.58 | 0.14 | 1.58 | 1.49 | 1.58 | 1.30 | 0.96 | 0.99 | 1.58 | 0.00 | 0.1% |
| SC-35.04 | 15 min | 4415 | 1.68 | 1.69 | 0.15 | 1.69 | 1.60 | 1.69 | 1.40 | 1.04 | 1.06 | 1.69 | 0.00 | 0.2% |
| SC-36.01 | 15 min | 4413 | 0.74 | 0.75 | 0.08 | 0.75 | 0.71 | 0.75 | 0.64 | 0.48 | 0.47 | 0.75 | 0.00 | 0.6% |
| SC-36.02 | 15 min | 4413 | 1.33 | 1.36 | 0.14 | 1.36 | 1.28 | 1.36 | 1.15 | 0.85 | 0.85 | 1.36 | 0.00 | 0.2% |
| SC-37.01 | 15 min | 4416 | 0.29 | 0.29 | 0.03 | 0.29 | 0.28 | 0.29 | 0.24 | 0.18 | 0.18 | 0.29 | 0.00 | 1.3% |
| SC-37.02 | 15 min | 4413 | 0.81 | 0.83 | 0.08 | 0.84 | 0.76 | 0.85 | 0.71 | 0.52 | 0.51 | 0.85 | 0.01 | 0.8% |
| SC-38.01 | 15 min | 4381 | 0.33 | 0.34 | 0.03 | 0.34 | 0.32 | 0.35 | 0.29 | 0.21 | 0.21 | 0.35 | 0.01 | 2.0% |
| SC-39.01 | 15 min | 4416 | 0.19 | 0.20 | 0.02 | 0.20 | 0.19 | 0.20 | 0.17 | 0.12 | 0.12 | 0.20 | 0.00 | -1.2% |
| SC-4.01 | 20 min | 4435 | 0.43 | 0.42 | 0.08 | 0.44 | 0.35 | 0.49 | 0.48 | 0.36 | 0.28 | 0.49 | 0.05 | 10.9% |
| SC-40.01 | 15 min | 4415 | 0.44 | 0.44 | 0.05 | 0.44 | 0.43 | 0.44 | 0.37 | 0.27 | 0.27 | 0.44 | 0.00 | 0.5% |
| SC-41.01 | 15 min | 4415 | 0.29 | 0.29 | 0.03 | 0.29 | 0.29 | 0.29 | 0.24 | 0.18 | 0.18 | 0.29 | 0.00 | -0.8% |
| SC-42.01 | 15 min | 4415 | 0.99 | 0.98 | 0.11 | 0.98 | 0.96 | 0.98 | 0.82 | 0.61 | 0.61 | 0.98 | 0.00 | 0.4% |
| SC-43.01 | 15 min | 4410 | 0.21 | 0.21 | 0.03 | 0.21 | 0.21 | 0.21 | 0.17 | 0.13 | 0.13 | 0.21 | 0.00 | 1.1% |
| SC-44.01 | 15 min | 4415 | 0.68 | 0.70 | 0.07 | 0.70 | 0.66 | 0.70 | 0.59 | 0.44 | 0.43 | 0.70 | 0.00 | -0.4% |
| SC-44.02 | 15 min | 4416 | 1.12 | 1.14 | 0.10 | 1.16 | 1.04 | 1.17 | 0.99 | 0.73 | 0.70 | 1.17 | 0.01 | 0.4% |
| SC-44.03 | 15 min | 4408 | 1.53 | 1.57 | 0.13 | 1.58 | 1.40 | 1.60 | 1.37 | 1.01 | 0.97 | 1.60 | 0.02 | 1.3% |
| SC-44.04 | 15 min | 4411 | 2.33 | 2.38 | 0.20 | 2.40 | 2.10 | 2.48 | 2.12 | 1.56 | 1.49 | 2.48 | 0.08 | 3.2% |
| SC-44.05 | 15 min | 4408 | 4.05 | 4.08 | 0.30 | 4.08 | 3.76 | 4.25 | 3.74 | 2.73 | 2.62 | 4.25 | 0.17 | 4.2% |
| SC-44.06 | 15 min | 4410 | 4.29 | 4.32 | 0.28 | 4.35 | 4.07 | 4.48 | 3.96 | 2.96 | 2.80 | 4.48 | 0.13 | 3.1% |
| SC-44.07 | 15 min | 4412 | 4.39 | 4.48 | 0.50 | 4.49 | 4.04 | 4.83 | 4.57 | 3.41 | 2.43 | 4.83 | 0.34 | 7.5% |
| SC-44.08 | 15 min | 4412 | 5.43 | 5.51 | 0.51 | 5.53 | 4.84 | 5.81 | 5.91 | 4.27 | 3.12 | 5.91 | 0.38 | 6.9% |
| SC-44.09 | 15 min | 4412 | 5.77 | 5.88 | 0.47 | 5.94 | 4.97 | 5.99 | 6.16 | 4.72 | 3.50 | 6.16 | 0.22 | 3.7% |
| SC-44.10 | 1 hour | 4729 | 0.74 | 0.74 | 0.01 | 0.74 | 0.64 | 0.65 | 0.66 | 0.70 | 0.71 | 0.71 | -0.03 | -3.4% |
| SC-44.11 | 1 hour | 4565 | 7.57 | 7.47 | 1.74 | 7.79 | 1.17 | 1.42 | 1.87 | 7.79 | 5.22 | 7.79 | 0.00 | -0.1% |
| SC-44.12 | 45 min | 4831 | 0.19 | 0.19 | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.17 | -0.02 | -12.6% |
| SC-44.13 | 45 min | 4870 | 0.21 | 0.21 | 0.01 | 0.21 | 0.04 | 0.10 | 0.15 | 0.22 | 0.20 | 0.22 | 0.01 | 3.2% |
| SC-44.14 | 45 min | 4873 | 0.95 | 0.96 | 0.04 | 0.96 | 0.08 | 0.28 | 0.45 | 1.01 | 1.06 | 1.06 | 0.10 | 10.6% |
| SC-44.15 | 45 min | 4828 | 2.18 | 2.18 | 0.03 | 2.18 | 2.13 | 2.16 | 2.18 | 2.21 | 2.10 | 2.21 | 0.03 | 1.5% |
| SC-44.16 | 45 min | 4828 | 2.26 | 2.25 | 0.03 | 2.25 | 2.17 | 2.23 | 2.25 | 2.29 | 2.14 | 2.29 | 0.04 | 1.8% |
| SC-44.17 | 20 min | 4434 | 6.33 | 6.25 | 0.55 | 6.27 | 6.01 | 6.79 | 6.69 | 5.70 | 4.50 | 6.79 | 0.52 | 8.3% |
| SC-44.18 | 20 min | 4436 | 6.55 | 6.58 | 0.49 | 6.60 | 6.07 | 6.88 | 6.81 | 6.02 | 4.77 | 6.88 | 0.28 | 4.2% |
| SC-44.19 | 20 min | 4440 | 7.21 | 7.27 | 0.50 | 7.30 | 6.75 | 7.22 | 7.47 | 6.63 | 5.40 | 7.47 | 0.17 | 2.3% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-44.20 | 20 min | 4440 | 7.17 | 7.19 | 0.37 | 7.21 | 6.19 | 7.08 | 7.33 | 6.91 | 5.49 | 7.33 | 0.12 | 1.7% |
| SC-45.01 | 15 min | 4411 | 0.51 | 0.52 | 0.05 | 0.53 | 0.48 | 0.55 | 0.48 | 0.35 | 0.33 | 0.55 | 0.02 | 2.9% |
| SC-46.01 | 15 min | 4416 | 0.41 | 0.42 | 0.04 | 0.43 | 0.40 | 0.43 | 0.36 | 0.27 | 0.27 | 0.43 | 0.00 | -0.6% |
| SC-46.02 | 15 min | 4408 | 0.72 | 0.74 | 0.06 | 0.74 | 0.66 | 0.77 | 0.65 | 0.48 | 0.46 | 0.77 | 0.03 | 3.7% |
| SC-46.03 | 15 min | 4408 | 1.08 | 1.11 | 0.09 | 1.11 | 0.99 | 1.14 | 0.98 | 0.72 | 0.69 | 1.14 | 0.03 | 3.0% |
| SC-46.04 | 15 min | 4408 | 1.23 | 1.26 | 0.10 | 1.26 | 1.12 | 1.29 | 1.11 | 0.82 | 0.78 | 1.29 | 0.03 | 2.7% |
| SC-47.01 | 15 min | 4415 | 0.67 | 0.68 | 0.07 | 0.68 | 0.64 | 0.68 | 0.58 | 0.44 | 0.42 | 0.68 | 0.00 | 0.6% |
| SC-48.01 | 15 min | 4415 | 0.51 | 0.52 | 0.05 | 0.52 | 0.49 | 0.52 | 0.44 | 0.32 | 0.32 | 0.52 | 0.00 | -0.7% |
| SC-48.02 | 15 min | 4408 | 0.82 | 0.84 | 0.07 | 0.84 | 0.75 | 0.86 | 0.73 | 0.53 | 0.51 | 0.86 | 0.02 | 2.8% |
| SC-49.01 | 15 min | 4415 | 0.57 | 0.58 | 0.06 | 0.58 | 0.56 | 0.58 | 0.48 | 0.36 | 0.37 | 0.58 | 0.00 | 0.3% |
| SC-5.01 | 15 min | 4411 | 0.36 | 0.37 | 0.04 | 0.37 | 0.33 | 0.39 | 0.33 | 0.24 | 0.23 | 0.39 | 0.02 | 5.3% |
| SC-50.01 | 15 min | 4409 | 0.21 | 0.21 | 0.02 | 0.21 | 0.19 | 0.23 | 0.19 | 0.14 | 0.13 | 0.23 | 0.02 | 8.2% |
| SC-51.01 | 15 min | 4416 | 0.20 | 0.21 | 0.02 | 0.21 | 0.19 | 0.21 | 0.17 | 0.13 | 0.13 | 0.21 | 0.00 | 0.0% |
| SC-52.01 | 15 min | 4415 | 0.20 | 0.21 | 0.02 | 0.21 | 0.20 | 0.21 | 0.17 | 0.13 | 0.13 | 0.21 | 0.00 | -1.0% |
| SC-53.01 | 15 min | 4413 | 0.49 | 0.50 | 0.05 | 0.50 | 0.47 | 0.50 | 0.42 | 0.31 | 0.31 | 0.50 | 0.00 | 0.2% |
| SC-53.02 | 15 min | 4411 | 1.03 | 1.05 | 0.09 | 1.06 | 0.92 | 1.10 | 0.93 | 0.68 | 0.65 | 1.10 | 0.04 | 4.0% |
| SC-53.03 | 15 min | 4408 | 1.24 | 1.27 | 0.11 | 1.28 | 1.14 | 1.31 | 1.12 | 0.83 | 0.79 | 1.31 | 0.03 | 2.3% |
| SC-54.01 | 15 min | 4413 | 0.40 | 0.41 | 0.04 | 0.41 | 0.39 | 0.41 | 0.34 | 0.25 | 0.26 | 0.41 | 0.00 | -0.4% |
| SC-54.02 | 15 min | 4411 | 0.79 | 0.80 | 0.07 | 0.81 | 0.70 | 0.84 | 0.70 | 0.52 | 0.49 | 0.84 | 0.03 | 4.0% |
| SC-55.01 | 15 min | 4413 | 0.62 | 0.63 | 0.07 | 0.63 | 0.60 | 0.63 | 0.53 | 0.39 | 0.40 | 0.63 | 0.00 | 0.3% |
| SC-56.01 | 15 min | 4411 | 0.30 | 0.30 | 0.03 | 0.31 | 0.27 | 0.32 | 0.26 | 0.19 | 0.19 | 0.32 | 0.01 | 3.0% |
| SC-57.01 | 15 min | 4409 | 0.22 | 0.21 | 0.02 | 0.21 | 0.20 | 0.25 | 0.21 | 0.15 | 0.14 | 0.25 | 0.04 | 18.4% |
| SC-58.01 | 15 min | 4415 | 0.40 | 0.41 | 0.04 | 0.41 | 0.38 | 0.41 | 0.35 | 0.26 | 0.25 | 0.41 | 0.00 | -0.2% |
| SC-59.01 | 15 min | 4416 | 0.54 | 0.56 | 0.05 | 0.56 | 0.51 | 0.56 | 0.49 | 0.37 | 0.34 | 0.56 | 0.00 | 0.6% |
| SC-59.02 | 15 min | 4411 | 1.06 | 1.08 | 0.09 | 1.09 | 0.94 | 1.13 | 0.96 | 0.72 | 0.67 | 1.13 | 0.04 | 3.4% |
| SC-59.03 | 15 min | 4411 | 1.53 | 1.56 | 0.13 | 1.58 | 1.37 | 1.64 | 1.39 | 1.03 | 0.98 | 1.64 | 0.06 | 3.5% |
| SC-59.04 | 15 min | 4411 | 1.97 | 2.01 | 0.17 | 2.03 | 1.76 | 2.10 | 1.79 | 1.33 | 1.25 | 2.10 | 0.07 | 3.2% |
| SC-59.05 | 15 min | 4411 | 4.21 | 4.30 | 0.34 | 4.38 | 3.73 | 4.55 | 4.03 | 2.95 | 2.76 | 4.55 | 0.17 | 3.8% |
| SC-59.06 | 15 min | 4410 | 4.79 | 4.83 | 0.36 | 4.85 | 4.43 | 5.24 | 4.75 | 3.44 | 3.16 | 5.24 | 0.39 | 8.0% |
| SC-59.07 | 15 min | 4410 | 8.21 | 8.26 | 0.68 | 8.27 | 7.46 | 9.04 | 8.15 | 6.02 | 5.40 | 9.04 | 0.77 | 9.3% |
| SC-59.08 | 20 min | 4434 | 7.84 | 7.75 | 0.94 | 7.79 | 6.99 | 8.71 | 8.34 | 6.42 | 5.66 | 8.71 | 0.92 | 11.8% |
| SC-59.09 | 20 min | 4440 | 9.32 | 9.35 | 0.99 | 9.58 | 7.27 | 9.65 | 9.91 | 7.83 | 6.89 | 9.91 | 0.33 | 3.4% |
| SC-59.10 | 1 hour | 4565 | 7.66 | 8.01 | 1.62 | 8.04 | 0.78 | 3.41 | 5.64 | 8.04 | 5.42 | 8.04 | 0.00 | 0.0% |
| SC-6.01 | 15 min | 4415 | 0.46 | 0.46 | 0.05 | 0.46 | 0.45 | 0.46 | 0.38 | 0.28 | 0.29 | 0.46 | 0.00 | -0.2% |
| SC-60.01 | 15 min | 4409 | 0.36 | 0.35 | 0.04 | 0.36 | 0.32 | 0.42 | 0.39 | 0.28 | 0.24 | 0.42 | 0.06 | 17.7% |
| SC-60.02 | 15 min | 4413 | 1.51 | 1.51 | 0.15 | 1.56 | 1.33 | 1.69 | 1.49 | 1.08 | 0.97 | 1.69 | 0.13 | 8.3% |
| SC-61.01 | 15 min | 4413 | 0.79 | 0.80 | 0.08 | 0.81 | 0.69 | 0.88 | 0.76 | 0.55 | 0.50 | 0.88 | 0.07 | 8.8% |
| SC-62.01 | 15 min | 4413 | 0.48 | 0.49 | 0.05 | 0.49 | 0.46 | 0.49 | 0.41 | 0.30 | 0.31 | 0.49 | 0.00 | 0.8% |
| SC-63.01 | 15 min | 4409 | 0.27 | 0.26 | 0.03 | 0.26 | 0.25 | 0.32 | 0.28 | 0.20 | 0.18 | 0.32 | 0.06 | 22.7% |
| SC-64.01 | 15 min | 4415 | 0.36 | 0.36 | 0.04 | 0.36 | 0.34 | 0.36 | 0.31 | 0.23 | 0.22 | 0.36 | 0.00 | 1.0% |
| SC-64.02 | 15 min | 4411 | 1.24 | 1.27 | 0.11 | 1.30 | 1.09 | 1.34 | 1.16 | 0.85 | 0.80 | 1.34 | 0.04 | 3.1% |
| SC-64.03 | 15 min | 4411 | 2.32 | 2.36 | 0.19 | 2.40 | 2.06 | 2.48 | 2.15 | 1.59 | 1.49 | 2.48 | 0.08 | 3.3% |
| SC-64.04 | 15 min | 4409 | 3.26 | 3.32 | 0.28 | 3.37 | 2.86 | 3.56 | 3.16 | 2.35 | 2.16 | 3.56 | 0.19 | 5.7% |
| SC-65.01 | 15 min | 4416 | 0.28 | 0.28 | 0.03 | 0.28 | 0.26 | 0.29 | 0.24 | 0.18 | 0.17 | 0.29 | 0.01 | 2.1% |
| SC-66.01 | 15 min | 4413 | 0.23 | 0.24 | 0.02 | 0.24 | 0.21 | 0.26 | 0.21 | 0.16 | 0.15 | 0.26 | 0.02 | 6.4% |
| SC-66.02 | 20 min | 4435 | 0.52 | 0.52 | 0.10 | 0.54 | 0.46 | 0.62 | 0.58 | 0.42 | 0.35 | 0.62 | 0.08 | 15.4% |
| SC-67.01 | 15 min | 4415 | 0.40 | 0.41 | 0.04 | 0.41 | 0.39 | 0.41 | 0.34 | 0.25 | 0.26 | 0.41 | 0.00 | -0.7% |
| SC-68.01 | 15 min | 4413 | 0.55 | 0.56 | 0.06 | 0.56 | 0.53 | 0.56 | 0.47 | 0.35 | 0.35 | 0.56 | 0.00 | 0.5% |
| SC-68.02 | 15 min | 4408 | 1.08 | 1.10 | 0.09 | 1.10 | 0.98 | 1.14 | 0.95 | 0.70 | 0.67 | 1.14 | 0.04 | 3.5% |
| SC-68.03 | 15 min | 4416 | 1.93 | 1.97 | 0.18 | 1.99 | 1.81 | 2.01 | 1.69 | 1.24 | 1.23 | 2.01 | 0.02 | 0.8% |
| SC-69.01 | 15 min | 4415 | 0.47 | 0.46 | 0.05 | 0.47 | 0.46 | 0.47 | 0.38 | 0.28 | 0.30 | 0.47 | 0.00 | -0.6% |
| SC-7.01 | 15 min | 4411 | 0.62 | 0.64 | 0.06 | 0.64 | 0.58 | 0.66 | 0.58 | 0.44 | 0.40 | 0.66 | 0.02 | 3.5% |
| SC-70.01 | 15 min | 4415 | 0.44 | 0.45 | 0.04 | 0.45 | 0.42 | 0.45 | 0.37 | 0.27 | 0.28 | 0.45 | 0.00 | -0.3% |
| SC-70.02 | 15 min | 4408 | 0.71 | 0.73 | 0.06 | 0.74 | 0.66 | 0.75 | 0.62 | 0.46 | 0.45 | 0.75 | 0.01 | 1.3% |
| SC-71.01 | 15 min | 4413 | 0.55 | 0.56 | 0.06 | 0.56 | 0.53 | 0.56 | 0.47 | 0.35 | 0.35 | 0.56 | 0.00 | 0.0% |
| SC-71.02 | 15 min | 4411 | 1.08 | 1.10 | 0.09 | 1.11 | 0.98 | 1.15 | 0.97 | 0.71 | 0.68 | 1.15 | 0.04 | 3.2% |
| SC-72.01 | 15 min | 4415 | 0.59 | 0.60 | 0.06 | 0.60 | 0.57 | 0.60 | 0.50 | 0.37 | 0.38 | 0.60 | 0.00 | -0.1% |
| SC-73.01 | 15 min | 4416 | 0.48 | 0.49 | 0.05 | 0.49 | 0.46 | 0.49 | 0.42 | 0.31 | 0.31 | 0.49 | 0.00 | 0.8% |
| SC-74.01 | 15 min | 4415 | 0.55 | 0.56 | 0.06 | 0.56 | 0.53 | 0.56 | 0.47 | 0.35 | 0.35 | 0.56 | 0.00 | 0.0% |
| SC-75.01 | 15 min | 4413 | 0.34 | 0.34 | 0.03 | 0.35 | 0.30 | 0.38 | 0.32 | 0.24 | 0.21 | 0.38 | 0.03 | 8.9% |
| SC-75.02 | 15 min | 4409 | 1.33 | 1.30 | 0.15 | 1.32 | 1.19 | 1.53 | 1.35 | 0.98 | 0.88 | 1.53 | 0.21 | 16.2% |
| SC-75.03 | 15 min | 4413 | 1.95 | 1.96 | 0.18 | 2.02 | 1.73 | 2.18 | 1.94 | 1.41 | 1.26 | 2.18 | 0.16 | 7.8% |
| SC-75.04 | 15 min | 4409 | 3.41 | 3.47 | 0.30 | 3.59 | 3.00 | 3.72 | 3.26 | 2.39 | 2.19 | 3.72 | 0.13 | 3.7% |
| SC-76.01 | 15 min | 4409 | 0.43 | 0.40 | 0.06 | 0.40 | 0.39 | 0.52 | 0.46 | 0.34 | 0.29 | 0.52 | 0.12 | 29.6% |
| SC-77.01 | 15 min | 4415 | 0.65 | 0.66 | 0.07 | 0.66 | 0.63 | 0.66 | 0.56 | 0.41 | 0.41 | 0.66 | 0.00 | 0.1% |
| SC-77.02 | 15 min | 4415 | 0.98 | 1.00 | 0.11 | 1.00 | 0.95 | 1.00 | 0.83 | 0.62 | 0.63 | 1.00 | 0.00 | -0.2% |
| SC-77.03 | 15 min | 4413 | 1.40 | 1.44 | 0.13 | 1.46 | 1.31 | 1.46 | 1.23 | 0.90 | 0.89 | 1.46 | 0.00 | 0.3% |
| SC-78.01 | 15 min | 4415 | 0.61 | 0.62 | 0.07 | 0.62 | 0.59 | 0.62 | 0.52 | 0.39 | 0.39 | 0.62 | 0.00 | 0.6% |

## ARR2019 Results for 5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4378 | 4415 | 4439 | 4565 | 4624 | | $m^3/s$ | % |
| SC-79.01 | 15 min | 4415 | 0.67 | 0.68 | 0.06 | 0.69 | 0.64 | 0.69 | 0.59 | 0.46 | 0.43 | 0.69 | 0.00 | -0.6% |
| SC-79.02 | 15 min | 4416 | 1.26 | 1.27 | 0.11 | 1.27 | 1.18 | 1.28 | 1.08 | 0.85 | 0.80 | 1.28 | 0.01 | 0.9% |
| SC-79.03 | 15 min | 4408 | 2.75 | 2.78 | 0.21 | 2.79 | 2.53 | 2.88 | 2.44 | 1.83 | 1.75 | 2.88 | 0.09 | 3.1% |
| SC-8.01 | 15 min | 4411 | 0.53 | 0.54 | 0.05 | 0.54 | 0.49 | 0.56 | 0.49 | 0.36 | 0.34 | 0.56 | 0.02 | 4.1% |
| SC-8.02 | 15 min | 4411 | 1.30 | 1.33 | 0.11 | 1.35 | 1.16 | 1.40 | 1.21 | 0.89 | 0.83 | 1.40 | 0.05 | 3.6% |
| SC-8.03 | 15 min | 4411 | 3.33 | 3.40 | 0.28 | 3.43 | 2.98 | 3.54 | 3.08 | 2.28 | 2.15 | 3.54 | 0.11 | 3.2% |
| SC-8.04 | 15 min | 4408 | 5.88 | 6.01 | 0.49 | 6.02 | 5.34 | 6.18 | 5.37 | 4.01 | 3.74 | 6.18 | 0.16 | 2.7% |
| SC-8.05 | 15 min | 4408 | 6.40 | 6.50 | 0.48 | 6.56 | 5.97 | 6.60 | 5.77 | 4.43 | 4.15 | 6.60 | 0.04 | 0.6% |
| SC-8.06 | 15 min | 4415 | 6.60 | 6.65 | 0.46 | 6.67 | 6.32 | 6.67 | 6.00 | 4.62 | 4.34 | 6.67 | 0.00 | -0.1% |
| SC-80.01 | 15 min | 4413 | 0.64 | 0.65 | 0.07 | 0.65 | 0.62 | 0.65 | 0.54 | 0.40 | 0.41 | 0.65 | 0.00 | 0.6% |
| SC-80.02 | 15 min | 4408 | 1.31 | 1.34 | 0.11 | 1.34 | 1.20 | 1.38 | 1.16 | 0.85 | 0.82 | 1.38 | 0.04 | 3.2% |
| SC-81.01 | 15 min | 4408 | 0.49 | 0.50 | 0.05 | 0.50 | 0.45 | 0.53 | 0.45 | 0.33 | 0.31 | 0.53 | 0.03 | 5.7% |
| SC-81.02 | 15 min | 4411 | 1.44 | 1.48 | 0.13 | 1.48 | 1.32 | 1.54 | 1.30 | 0.96 | 0.91 | 1.54 | 0.06 | 3.9% |
| SC-82.01 | 15 min | 4416 | 0.57 | 0.58 | 0.06 | 0.59 | 0.55 | 0.59 | 0.49 | 0.36 | 0.36 | 0.59 | 0.00 | -0.5% |
| SC-83.01 | 15 min | 4416 | 0.36 | 0.37 | 0.04 | 0.37 | 0.35 | 0.37 | 0.31 | 0.23 | 0.23 | 0.37 | 0.00 | 0.2% |
| SC-84.01 | 15 min | 4381 | 0.54 | 0.55 | 0.06 | 0.55 | 0.52 | 0.57 | 0.48 | 0.35 | 0.35 | 0.57 | 0.02 | 2.9% |
| SC-84.02 | 15 min | 4413 | 1.33 | 1.37 | 0.14 | 1.38 | 1.26 | 1.39 | 1.19 | 0.87 | 0.86 | 1.39 | 0.01 | 0.9% |
| SC-84.03 | 15 min | 4413 | 1.77 | 1.83 | 0.17 | 1.84 | 1.64 | 1.86 | 1.58 | 1.16 | 1.13 | 1.86 | 0.02 | 1.1% |
| SC-84.04 | 15 min | 4408 | 2.10 | 2.17 | 0.20 | 2.19 | 1.94 | 2.22 | 1.88 | 1.38 | 1.34 | 2.22 | 0.03 | 1.3% |
| SC-84.05 | 15 min | 4408 | 2.47 | 2.52 | 0.19 | 2.54 | 2.36 | 2.56 | 2.27 | 1.66 | 1.61 | 2.56 | 0.02 | 0.7% |
| SC-84.06 | 10 min | 4378 | 2.71 | 2.66 | 0.13 | 2.66 | 2.66 | 2.75 | 2.52 | 1.85 | 1.77 | 2.75 | 0.09 | 3.3% |
| SC-85.01 | 15 min | 4415 | 0.34 | 0.34 | 0.04 | 0.34 | 0.33 | 0.34 | 0.28 | 0.21 | 0.21 | 0.34 | 0.00 | 0.6% |
| SC-86.01 | 15 min | 4415 | 0.51 | 0.51 | 0.05 | 0.52 | 0.49 | 0.52 | 0.44 | 0.33 | 0.32 | 0.52 | 0.00 | -0.9% |
| SC-86.02 | 15 min | 4416 | 0.99 | 1.02 | 0.10 | 1.02 | 0.95 | 1.02 | 0.90 | 0.72 | 0.65 | 1.02 | 0.00 | 0.4% |
| SC-87.01 | 15 min | 4415 | 0.74 | 0.75 | 0.08 | 0.75 | 0.72 | 0.75 | 0.63 | 0.47 | 0.47 | 0.75 | 0.00 | 0.2% |
| SC-87.02 | 15 min | 4416 | 1.28 | 1.31 | 0.12 | 1.32 | 1.21 | 1.32 | 1.13 | 0.84 | 0.82 | 1.32 | 0.00 | 0.2% |
| SC-88.01 | 15 min | 4416 | 0.33 | 0.34 | 0.04 | 0.34 | 0.32 | 0.34 | 0.29 | 0.22 | 0.21 | 0.34 | 0.00 | 1.0% |
| SC-88.02 | 15 min | 4413 | 0.55 | 0.57 | 0.05 | 0.58 | 0.51 | 0.58 | 0.52 | 0.41 | 0.37 | 0.58 | 0.00 | -0.1% |
| SC-89.01 | 15 min | 4415 | 0.36 | 0.37 | 0.04 | 0.37 | 0.35 | 0.37 | 0.31 | 0.24 | 0.23 | 0.37 | 0.00 | 0.1% |
| SC-89.02 | 15 min | 4416 | 0.41 | 0.41 | 0.04 | 0.42 | 0.38 | 0.42 | 0.36 | 0.27 | 0.26 | 0.42 | 0.00 | 0.4% |
| SC-9.01 | 15 min | 4413 | 0.48 | 0.49 | 0.05 | 0.49 | 0.46 | 0.49 | 0.41 | 0.31 | 0.31 | 0.49 | 0.00 | 0.2% |
| SC-90.01 | 15 min | 4416 | 0.15 | 0.15 | 0.01 | 0.15 | 0.14 | 0.15 | 0.13 | 0.10 | 0.09 | 0.15 | 0.00 | 1.3% |
| SC-91.01 | 15 min | 4415 | 0.43 | 0.42 | 0.05 | 0.42 | 0.42 | 0.42 | 0.35 | 0.26 | 0.27 | 0.42 | 0.00 | 0.7% |
| SC-91.02 | 15 min | 4416 | 0.91 | 0.92 | 0.09 | 0.92 | 0.86 | 0.93 | 0.77 | 0.57 | 0.57 | 0.93 | 0.01 | 1.0% |
| SC-92.01 | 15 min | 4411 | 0.44 | 0.45 | 0.04 | 0.45 | 0.41 | 0.46 | 0.40 | 0.29 | 0.28 | 0.46 | 0.01 | 3.1% |
| SC-92.02 | 15 min | 4411 | 1.25 | 1.28 | 0.11 | 1.31 | 1.11 | 1.35 | 1.19 | 0.88 | 0.81 | 1.35 | 0.04 | 3.0% |
| SC-93.01 | 15 min | 4416 | 0.47 | 0.48 | 0.05 | 0.48 | 0.45 | 0.48 | 0.41 | 0.30 | 0.30 | 0.48 | 0.00 | 0.9% |
| SC-94.01 | 15 min | 4415 | 0.51 | 0.51 | 0.06 | 0.51 | 0.50 | 0.51 | 0.42 | 0.31 | 0.33 | 0.51 | 0.00 | 0.5% |
| SC-94.02 | 15 min | 4416 | 1.23 | 1.24 | 0.11 | 1.25 | 1.15 | 1.26 | 1.06 | 0.78 | 0.77 | 1.26 | 0.01 | 1.0% |
| SC-95.01 | 15 min | 4415 | 0.30 | 0.30 | 0.03 | 0.30 | 0.30 | 0.30 | 0.25 | 0.18 | 0.19 | 0.30 | 0.00 | -0.3% |
| SC-95.02 | 15 min | 4415 | 0.74 | 0.75 | 0.08 | 0.75 | 0.72 | 0.75 | 0.62 | 0.46 | 0.47 | 0.75 | 0.00 | -0.2% |
| SC-96.01 | 15 min | 4415 | 0.34 | 0.34 | 0.04 | 0.34 | 0.33 | 0.34 | 0.28 | 0.21 | 0.22 | 0.34 | 0.00 | -0.9% |
| SC-97.01 | 15 min | 4415 | 0.23 | 0.22 | 0.03 | 0.22 | 0.22 | 0.22 | 0.19 | 0.14 | 0.14 | 0.22 | 0.00 | 2.2% |
| SC-97.02 | 15 min | 4408 | 1.37 | 1.38 | 0.11 | 1.39 | 1.24 | 1.43 | 1.22 | 0.92 | 0.86 | 1.43 | 0.04 | 2.5% |
| SC-98.01 | 15 min | 4415 | 0.40 | 0.41 | 0.04 | 0.41 | 0.38 | 0.41 | 0.35 | 0.26 | 0.25 | 0.41 | 0.00 | -0.5% |
| SC-99.01 | 15 min | 4415 | 0.39 | 0.39 | 0.04 | 0.39 | 0.38 | 0.39 | 0.33 | 0.24 | 0.25 | 0.39 | 0.00 | 0.6% |
| SC-99.02 | 15 min | 4411 | 1.08 | 1.10 | 0.09 | 1.12 | 0.95 | 1.16 | 0.96 | 0.71 | 0.68 | 1.16 | 0.04 | 3.5% |
| SC-99.03 | 15 min | 4411 | 1.87 | 1.90 | 0.15 | 1.94 | 1.65 | 2.01 | 1.69 | 1.24 | 1.18 | 2.01 | 0.07 | 3.7% |
| SC-99.04 | 15 min | 4411 | 4.95 | 5.02 | 0.39 | 5.04 | 4.51 | 5.21 | 4.51 | 3.34 | 3.19 | 5.21 | 0.17 | 3.3% |
| Dummy1 | 15 min | 4412 | 23.82 | 23.82 | 1.55 | 24.09 | 23.07 | 25.20 | 24.48 | 18.54 | 16.41 | 25.20 | 1.11 | 4.6% |
| Dummy2 | 25 min | 4468 | 39.20 | 39.41 | 2.36 | 39.59 | 30.24 | 33.70 | 34.17 | 39.18 | 29.50 | 39.18 | -0.41 | -1.0% |
| Dummy3 | 30 min | 4513 | 75.89 | 75.74 | 3.69 | 76.54 | 58.62 | 70.76 | 71.35 | 77.46 | 62.78 | 77.46 | 0.92 | 1.2% |
| DummyOut | 1 hour | 4565 | 82.26 | 82.29 | 4.61 | 82.88 | 59.04 | 71.11 | 71.82 | 82.88 | 75.23 | 82.88 | 0.00 | 0.0% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-1.01 | 10 min | 4363 | 0.79 | 0.80 | 0.06 | 0.80 | 0.84 | 0.71 | 0.77 | 0.49 | 0.45 | 0.84 | 0.04 | 4.7% |
| SC-1.02 | 10 min | 4365 | 1.70 | 1.73 | 0.12 | 1.75 | 1.80 | 1.58 | 1.67 | 1.08 | 0.99 | 1.80 | 0.05 | 2.6% |
| SC-1.03 | 10 min | 4363 | 2.02 | 2.06 | 0.16 | 2.07 | 2.16 | 1.83 | 2.00 | 1.31 | 1.16 | 2.16 | 0.09 | 4.2% |
| SC-1.04 | 10 min | 4354 | 5.37 | 5.39 | 0.35 | 5.47 | 5.47 | 5.13 | 5.07 | 3.41 | 3.20 | 5.47 | 0.00 | 0.1% |
| SC-1.05 | 10 min | 4361 | 5.76 | 5.80 | 0.37 | 5.80 | 5.96 | 5.47 | 5.49 | 3.71 | 3.50 | 5.96 | 0.16 | 2.7% |
| SC-1.06 | 10 min | 4361 | 6.63 | 6.68 | 0.37 | 6.72 | 6.78 | 6.34 | 6.17 | 4.28 | 4.06 | 6.78 | 0.06 | 0.8% |
| SC-1.07 | 10 min | 4365 | 6.73 | 6.78 | 0.36 | 6.81 | 6.94 | 6.40 | 6.30 | 4.38 | 4.16 | 6.94 | 0.13 | 1.9% |
| SC-1.08 | 45 min | 4528 | 6.96 | 6.99 | 0.69 | 7.12 | 2.48 | 4.46 | 5.51 | 6.19 | 7.20 | 7.20 | 0.08 | 1.1% |
| SC-1.09 | 1 hour | 4405 | 7.46 | 7.29 | 0.81 | 7.35 | 3.45 | 4.59 | 5.64 | 7.01 | 8.14 | 8.14 | 0.79 | 10.7% |
| SC-1.10 | 1 hour | 4405 | 7.56 | 7.41 | 0.80 | 7.44 | 3.88 | 4.60 | 5.64 | 7.15 | 8.26 | 8.26 | 0.82 | 11.0% |
| SC-1.11 | 10 min | 4354 | 11.92 | 11.73 | 0.54 | 11.84 | 11.84 | 11.57 | 10.72 | 9.88 | 11.02 | 11.84 | 0.00 | 0.0% |
| SC-1.12 | 10 min | 4354 | 14.84 | 14.64 | 0.58 | 14.74 | 14.74 | 14.47 | 13.20 | 11.00 | 12.19 | 14.74 | 0.00 | 0.0% |
| SC-1.13 | 10 min | 4361 | 16.72 | 16.69 | 0.32 | 16.74 | 16.78 | 16.65 | 14.81 | 11.87 | 13.58 | 16.78 | 0.04 | 0.2% |
| SC-1.14 | 10 min | 4354 | 19.92 | 19.86 | 0.32 | 19.88 | 19.88 | 20.04 | 17.31 | 13.68 | 15.66 | 20.04 | 0.16 | 0.8% |
| SC-1.15 | 10 min | 4357 | 21.63 | 21.46 | 0.35 | 21.46 | 21.42 | 21.87 | 18.64 | 15.03 | 16.80 | 21.87 | 0.41 | 1.9% |
| SC-1.16 | 15 min | 4403 | 24.41 | 24.67 | 0.52 | 24.68 | 22.80 | 24.65 | 20.26 | 18.14 | 18.92 | 24.65 | -0.03 | -0.1% |
| SC-1.17 | 15 min | 4397 | 24.80 | 24.95 | 0.50 | 24.96 | 23.02 | 24.94 | 20.47 | 18.61 | 19.25 | 24.94 | -0.02 | -0.1% |
| SC-1.18 | 25 min | 4458 | 16.33 | 16.28 | 0.44 | 16.46 | 14.55 | 15.80 | 15.15 | 15.05 | 15.65 | 15.80 | -0.66 | -4.0% |
| SC-1.19 | 1 hour | 4558 | 19.19 | 19.08 | 0.45 | 19.15 | 9.97 | 11.52 | 12.28 | 19.29 | 18.61 | 19.29 | 0.14 | 0.7% |
| SC-1.20 | 1 hour | 4556 | 18.00 | 17.99 | 0.35 | 18.03 | 9.69 | 11.31 | 12.11 | 18.12 | 17.37 | 18.12 | 0.09 | 0.5% |
| SC-1.21 | 1 hour | 4556 | 18.01 | 18.00 | 0.35 | 18.04 | 9.70 | 11.31 | 12.11 | 18.13 | 17.38 | 18.13 | 0.09 | 0.5% |
| SC-1.22 | 1.50 hour | 4585 | 18.16 | 18.16 | 0.47 | 18.19 | 9.71 | 11.33 | 12.14 | 18.19 | 17.44 | 18.19 | 0.00 | 0.0% |
| SC-1.23 | 1.50 hour | 4532 | 20.02 | 19.94 | 0.86 | 19.95 | 16.69 | 16.76 | 18.23 | 18.22 | 17.93 | 18.23 | -1.72 | -8.6% |
| SC-1.24 | 20 min | 4429 | 27.90 | 27.23 | 2.33 | 28.07 | 26.14 | 27.40 | 25.30 | 24.24 | 24.97 | 27.40 | -0.67 | -2.4% |
| SC-1.25 | 25 min | 4462 | 28.35 | 27.96 | 2.55 | 28.51 | 26.56 | 27.54 | 25.37 | 25.16 | 25.59 | 27.54 | -0.97 | -3.4% |
| SC-1.26 | 25 min | 4462 | 30.50 | 30.57 | 2.10 | 30.79 | 28.12 | 29.07 | 25.64 | 28.00 | 27.64 | 29.07 | -1.72 | -5.6% |
| SC-1.27 | 25 min | 4462 | 31.02 | 31.16 | 2.05 | 31.25 | 28.49 | 29.60 | 26.13 | 28.57 | 28.18 | 29.60 | -1.65 | -5.3% |
| SC-1.28 | 15 min | 4400 | 40.64 | 40.62 | 0.58 | 40.81 | 34.42 | 40.95 | 37.08 | 38.05 | 36.32 | 40.95 | 0.14 | 0.3% |
| SC-1.29 | 25 min | 4459 | 43.00 | 42.89 | 1.95 | 42.92 | 34.98 | 41.81 | 39.63 | 40.21 | 38.95 | 41.81 | -1.11 | -2.6% |
| SC-1.30 | 25 min | 4460 | 43.85 | 43.64 | 1.89 | 43.70 | 35.19 | 42.09 | 40.99 | 40.87 | 39.80 | 42.09 | -1.61 | -3.7% |
| SC-1.31 | 25 min | 4460 | 44.38 | 44.29 | 1.90 | 44.70 | 35.35 | 42.30 | 41.69 | 41.35 | 40.31 | 42.30 | -2.40 | -5.4% |
| SC-1.32 | 25 min | 4459 | 45.21 | 45.41 | 1.91 | 45.70 | 35.59 | 42.61 | 42.56 | 42.15 | 41.09 | 42.61 | -3.09 | -6.8% |
| SC-1.33 | 30 min | 4504 | 46.91 | 46.82 | 2.95 | 47.23 | 35.90 | 43.01 | 43.69 | 44.51 | 42.79 | 44.51 | -2.72 | -5.8% |
| SC-1.34 | 30 min | 4504 | 47.15 | 47.04 | 2.84 | 47.29 | 35.91 | 43.03 | 43.78 | 45.20 | 43.16 | 45.20 | -2.09 | -4.4% |
| SC-1.35 | 30 min | 4504 | 47.47 | 47.33 | 2.71 | 47.40 | 35.95 | 43.08 | 43.94 | 45.87 | 43.60 | 45.87 | -1.53 | -3.2% |
| SC-1.36 | 30 min | 4495 | 49.49 | 49.15 | 1.89 | 49.81 | 36.18 | 43.36 | 44.64 | 49.88 | 46.38 | 49.88 | 0.07 | 0.1% |
| SC-10.01 | 10 min | 4363 | 0.82 | 0.83 | 0.07 | 0.85 | 0.89 | 0.69 | 0.82 | 0.52 | 0.41 | 0.89 | 0.04 | 4.5% |
| SC-100.01 | 10 min | 4366 | 0.96 | 0.97 | 0.08 | 1.00 | 1.05 | 0.77 | 0.97 | 0.61 | 0.47 | 1.05 | 0.05 | 4.9% |
| SC-100.02 | 10 min | 4363 | 1.65 | 1.69 | 0.14 | 1.71 | 1.79 | 1.40 | 1.66 | 1.08 | 0.85 | 1.79 | 0.08 | 4.5% |
| SC-101.01 | 10 min | 4363 | 1.01 | 1.03 | 0.07 | 1.03 | 1.07 | 0.89 | 1.00 | 0.63 | 0.53 | 1.07 | 0.04 | 4.1% |
| SC-101.02 | 10 min | 4354 | 1.78 | 1.79 | 0.12 | 1.81 | 1.81 | 1.63 | 1.69 | 1.12 | 0.97 | 1.81 | 0.00 | 0.2% |
| SC-102.01 | 10 min | 4363 | 0.79 | 0.80 | 0.07 | 0.83 | 0.86 | 0.65 | 0.80 | 0.50 | 0.39 | 0.86 | 0.03 | 4.2% |
| SC-102.02 | 10 min | 4361 | 3.00 | 3.03 | 0.20 | 3.06 | 3.08 | 2.71 | 2.86 | 1.94 | 1.62 | 3.08 | 0.02 | 0.6% |
| SC-103.01 | 10 min | 4363 | 0.53 | 0.54 | 0.04 | 0.56 | 0.58 | 0.43 | 0.54 | 0.34 | 0.26 | 0.58 | 0.02 | 3.7% |
| SC-103.02 | 10 min | 4354 | 1.87 | 1.88 | 0.13 | 1.91 | 1.91 | 1.63 | 1.78 | 1.18 | 0.98 | 1.91 | 0.00 | -0.1% |
| SC-104.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.50 | 0.52 | 0.39 | 0.48 | 0.30 | 0.24 | 0.52 | 0.02 | 3.7% |
| SC-105.01 | 10 min | 4363 | 0.51 | 0.52 | 0.04 | 0.53 | 0.55 | 0.43 | 0.51 | 0.32 | 0.26 | 0.55 | 0.02 | 4.3% |
| SC-105.02 | 10 min | 4354 | 1.21 | 1.20 | 0.09 | 1.22 | 1.22 | 1.08 | 1.12 | 0.77 | 0.65 | 1.22 | 0.00 | -0.4% |
| SC-105.03 | 10 min | 4354 | 2.84 | 2.80 | 0.20 | 2.84 | 2.84 | 2.52 | 2.63 | 1.79 | 1.51 | 2.84 | 0.00 | 0.0% |
| SC-105.04 | 10 min | 4354 | 3.84 | 3.86 | 0.25 | 3.91 | 3.91 | 3.44 | 3.63 | 2.42 | 2.05 | 3.91 | 0.00 | 0.1% |
| SC-105.05 | 10 min | 4354 | 4.58 | 4.52 | 0.30 | 4.58 | 4.58 | 4.26 | 4.25 | 2.90 | 2.55 | 4.58 | 0.00 | 0.0% |
| SC-105.06 | 10 min | 4354 | 4.80 | 4.68 | 0.32 | 4.75 | 4.75 | 4.68 | 4.39 | 3.13 | 2.87 | 4.75 | 0.00 | -0.1% |
| SC-105.07 | 15 min | 4393 | 7.07 | 6.89 | 0.84 | 6.96 | 7.16 | 6.99 | 6.55 | 4.66 | 4.41 | 7.16 | 0.20 | 2.8% |
| SC-105.08 | 15 min | 4358 | 7.95 | 7.86 | 0.63 | 7.88 | 8.24 | 7.88 | 7.42 | 5.43 | 5.15 | 8.24 | 0.36 | 4.6% |
| SC-105.09 | 10 min | 4356 | 10.65 | 10.59 | 0.13 | 10.60 | 10.82 | 10.57 | 9.45 | 7.22 | 6.82 | 10.82 | 0.22 | 2.1% |
| SC-106.01 | 10 min | 4363 | 0.37 | 0.38 | 0.03 | 0.39 | 0.40 | 0.31 | 0.37 | 0.24 | 0.19 | 0.40 | 0.01 | 3.3% |
| SC-107.01 | 10 min | 4363 | 0.65 | 0.67 | 0.05 | 0.68 | 0.70 | 0.54 | 0.65 | 0.41 | 0.33 | 0.70 | 0.02 | 3.3% |
| SC-108.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.50 | 0.52 | 0.38 | 0.48 | 0.30 | 0.23 | 0.52 | 0.02 | 3.4% |
| SC-109.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.64 | 0.67 | 0.51 | 0.62 | 0.39 | 0.31 | 0.67 | 0.03 | 4.1% |
| SC-11.01 | 10 min | 4363 | 0.51 | 0.52 | 0.04 | 0.52 | 0.55 | 0.42 | 0.51 | 0.32 | 0.26 | 0.55 | 0.03 | 5.0% |
| SC-110.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.59 | 0.61 | 0.47 | 0.57 | 0.36 | 0.29 | 0.61 | 0.02 | 4.2% |
| SC-110.02 | 10 min | 4361 | 1.29 | 1.30 | 0.09 | 1.32 | 1.32 | 1.17 | 1.23 | 0.82 | 0.71 | 1.32 | 0.00 | 0.2% |
| SC-110.03 | 10 min | 4361 | 1.39 | 1.41 | 0.09 | 1.42 | 1.44 | 1.28 | 1.34 | 0.90 | 0.78 | 1.44 | 0.02 | 1.5% |
| SC-111.01 | 20 min | 4433 | 0.40 | 0.39 | 0.05 | 0.39 | 0.29 | 0.41 | 0.36 | 0.28 | 0.26 | 0.41 | 0.02 | 5.5% |
| SC-112.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.99 | 1.03 | 0.80 | 0.95 | 0.61 | 0.49 | 1.03 | 0.04 | 4.0% |
| SC-113.01 | 10 min | 4363 | 0.35 | 0.35 | 0.03 | 0.36 | 0.38 | 0.29 | 0.35 | 0.22 | 0.18 | 0.38 | 0.02 | 4.2% |
| SC-113.02 | 10 min | 4354 | 1.12 | 1.11 | 0.08 | 1.12 | 1.12 | 1.05 | 1.04 | 0.71 | 0.64 | 1.12 | 0.00 | 0.2% |
| SC-114.01 | 10 min | 4363 | 0.60 | 0.62 | 0.05 | 0.62 | 0.64 | 0.56 | 0.59 | 0.38 | 0.35 | 0.64 | 0.02 | 3.6% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-114.02 | 10 min | 4361 | 0.97 | 0.98 | 0.07 | 0.98 | 1.01 | 0.89 | 0.93 | 0.62 | 0.55 | 1.01 | 0.03 | 2.7% |
| SC-114.03 | 10 min | 4368 | 2.01 | 2.04 | 0.15 | 2.05 | 2.12 | 1.80 | 1.97 | 1.30 | 1.11 | 2.12 | 0.07 | 3.4% |
| SC-115.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.57 | 0.59 | 0.46 | 0.55 | 0.35 | 0.28 | 0.59 | 0.02 | 4.2% |
| SC-115.02 | 10 min | 4365 | 0.89 | 0.90 | 0.06 | 0.90 | 0.93 | 0.78 | 0.86 | 0.57 | 0.47 | 0.93 | 0.03 | 3.2% |
| SC-116.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.56 | 0.59 | 0.45 | 0.54 | 0.34 | 0.28 | 0.59 | 0.03 | 5.0% |
| SC-116.02 | 10 min | 4363 | 0.88 | 0.90 | 0.07 | 0.90 | 0.94 | 0.77 | 0.87 | 0.57 | 0.47 | 0.94 | 0.04 | 4.1% |
| SC-117.01 | 10 min | 4363 | 0.32 | 0.33 | 0.03 | 0.33 | 0.35 | 0.27 | 0.32 | 0.20 | 0.16 | 0.35 | 0.02 | 5.2% |
| SC-118.01 | 10 min | 4363 | 0.69 | 0.70 | 0.06 | 0.73 | 0.76 | 0.55 | 0.70 | 0.45 | 0.33 | 0.76 | 0.03 | 4.0% |
| SC-119.01 | 10 min | 4363 | 1.06 | 1.09 | 0.09 | 1.11 | 1.16 | 0.90 | 1.07 | 0.68 | 0.55 | 1.16 | 0.04 | 4.1% |
| SC-119.02 | 10 min | 4363 | 2.67 | 2.72 | 0.22 | 2.77 | 2.88 | 2.29 | 2.67 | 1.73 | 1.40 | 2.88 | 0.11 | 4.1% |
| SC-12.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.61 | 0.63 | 0.50 | 0.58 | 0.37 | 0.30 | 0.63 | 0.02 | 3.4% |
| SC-12.02 | 10 min | 4363 | 1.01 | 1.03 | 0.09 | 1.06 | 1.10 | 0.84 | 1.02 | 0.64 | 0.51 | 1.10 | 0.04 | 4.1% |
| SC-12.03 | 10 min | 4363 | 1.87 | 1.91 | 0.15 | 1.91 | 1.99 | 1.62 | 1.85 | 1.21 | 0.98 | 1.99 | 0.08 | 4.0% |
| SC-12.04 | 10 min | 4363 | 2.38 | 2.42 | 0.19 | 2.43 | 2.53 | 2.08 | 2.35 | 1.56 | 1.27 | 2.53 | 0.10 | 4.1% |
| SC-120.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.50 | 0.52 | 0.40 | 0.48 | 0.30 | 0.24 | 0.52 | 0.02 | 4.1% |
| SC-121.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.65 | 0.51 | 0.60 | 0.38 | 0.31 | 0.65 | 0.03 | 4.9% |
| SC-122.01 | 10 min | 4363 | 0.96 | 0.97 | 0.09 | 1.01 | 1.06 | 0.76 | 0.98 | 0.62 | 0.46 | 1.06 | 0.05 | 4.8% |
| SC-122.02 | 10 min | 4363 | 1.53 | 1.56 | 0.12 | 1.57 | 1.64 | 1.30 | 1.52 | 1.00 | 0.79 | 1.64 | 0.07 | 4.3% |
| SC-122.03 | 10 min | 4365 | 2.06 | 2.09 | 0.17 | 2.10 | 2.16 | 1.77 | 2.00 | 1.34 | 1.09 | 2.16 | 0.06 | 3.0% |
| SC-123.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.53 | 0.40 | 0.49 | 0.32 | 0.24 | 0.53 | 0.02 | 4.6% |
| SC-123.02 | 10 min | 4361 | 1.39 | 1.41 | 0.10 | 1.41 | 1.44 | 1.21 | 1.34 | 0.91 | 0.74 | 1.44 | 0.03 | 2.3% |
| SC-123.03 | 10 min | 4354 | 9.44 | 9.46 | 0.58 | 9.59 | 9.59 | 9.02 | 8.89 | 6.04 | 5.87 | 9.59 | 0.00 | 0.0% |
| SC-123.04 | 10 min | 4361 | 9.61 | 9.68 | 0.60 | 9.80 | 9.84 | 9.14 | 9.12 | 6.16 | 5.98 | 9.84 | 0.04 | 0.4% |
| SC-123.05 | 10 min | 4365 | 12.15 | 12.27 | 0.73 | 12.34 | 12.66 | 11.32 | 11.66 | 7.88 | 7.48 | 12.66 | 0.32 | 2.6% |
| SC-123.06 | 10 min | 4363 | 12.47 | 12.56 | 0.68 | 12.65 | 13.09 | 11.54 | 11.99 | 8.07 | 7.74 | 13.09 | 0.44 | 3.4% |
| SC-123.07 | 10 min | 4363 | 13.23 | 13.23 | 0.66 | 13.55 | 13.96 | 12.41 | 12.67 | 8.71 | 8.45 | 13.96 | 0.41 | 3.0% |
| SC-124.01 | 20 min | 4371 | 0.61 | 0.59 | 0.07 | 0.60 | 0.43 | 0.58 | 0.60 | 0.44 | 0.40 | 0.60 | 0.00 | -0.4% |
| SC-124.02 | 20 min | 4371 | 3.94 | 3.86 | 0.47 | 3.89 | 3.41 | 3.83 | 3.89 | 2.78 | 2.64 | 3.89 | 0.00 | 0.1% |
| SC-125.01 | 20 min | 4433 | 0.84 | 0.82 | 0.10 | 0.83 | 0.59 | 0.82 | 0.80 | 0.61 | 0.55 | 0.82 | -0.01 | -0.6% |
| SC-126.01 | 10 min | 4363 | 0.45 | 0.46 | 0.04 | 0.47 | 0.49 | 0.38 | 0.46 | 0.29 | 0.23 | 0.49 | 0.02 | 5.2% |
| SC-126.02 | 20 min | 4433 | 1.11 | 1.08 | 0.13 | 1.09 | 0.84 | 1.07 | 1.11 | 0.80 | 0.75 | 1.11 | 0.02 | 2.0% |
| SC-126.03 | 20 min | 4371 | 2.06 | 2.02 | 0.29 | 2.07 | 1.92 | 2.02 | 2.07 | 1.41 | 1.35 | 2.07 | 0.00 | 0.1% |
| SC-127.01 | 10 min | 4363 | 1.06 | 1.08 | 0.09 | 1.12 | 1.17 | 0.84 | 1.08 | 0.69 | 0.51 | 1.17 | 0.05 | 4.6% |
| SC-127.02 | 10 min | 4363 | 2.89 | 2.94 | 0.25 | 3.02 | 3.14 | 2.39 | 2.91 | 1.90 | 1.46 | 3.14 | 0.12 | 4.1% |
| SC-128.01 | 10 min | 4363 | 1.05 | 1.07 | 0.09 | 1.10 | 1.15 | 0.85 | 1.06 | 0.68 | 0.52 | 1.15 | 0.05 | 4.2% |
| SC-129.01 | 10 min | 4361 | 0.52 | 0.53 | 0.03 | 0.53 | 0.54 | 0.49 | 0.50 | 0.32 | 0.29 | 0.54 | 0.01 | 1.7% |
| SC-13.01 | 10 min | 4363 | 0.53 | 0.54 | 0.05 | 0.56 | 0.58 | 0.45 | 0.54 | 0.34 | 0.27 | 0.58 | 0.02 | 3.8% |
| SC-130.01 | 10 min | 4363 | 0.78 | 0.80 | 0.07 | 0.82 | 0.86 | 0.65 | 0.79 | 0.50 | 0.39 | 0.86 | 0.04 | 4.6% |
| SC-131.01 | 10 min | 4366 | 0.31 | 0.31 | 0.03 | 0.33 | 0.34 | 0.24 | 0.32 | 0.20 | 0.15 | 0.34 | 0.01 | 3.4% |
| SC-132.01 | 10 min | 4363 | 0.44 | 0.45 | 0.04 | 0.46 | 0.48 | 0.37 | 0.44 | 0.28 | 0.22 | 0.48 | 0.02 | 3.3% |
| SC-133.01 | 10 min | 4363 | 0.32 | 0.32 | 0.03 | 0.34 | 0.35 | 0.26 | 0.32 | 0.20 | 0.16 | 0.35 | 0.01 | 2.7% |
| SC-134.01 | 10 min | 4363 | 0.27 | 0.27 | 0.02 | 0.28 | 0.29 | 0.23 | 0.27 | 0.17 | 0.14 | 0.29 | 0.01 | 3.3% |
| SC-134.02 | 10 min | 4364 | 0.85 | 0.86 | 0.05 | 0.86 | 0.79 | 0.87 | 0.71 | 0.54 | 0.51 | 0.87 | 0.01 | 1.0% |
| SC-134.03 | 15 min | 4392 | 1.70 | 1.57 | 0.24 | 1.57 | 1.53 | 1.80 | 1.56 | 1.12 | 1.07 | 1.80 | 0.23 | 14.7% |
| SC-134.04 | 20 min | 4429 | 2.43 | 2.27 | 0.32 | 2.29 | 2.12 | 2.57 | 2.23 | 1.60 | 1.53 | 2.57 | 0.28 | 12.2% |
| SC-135.01 | 10 min | 4363 | 0.21 | 0.22 | 0.02 | 0.22 | 0.23 | 0.18 | 0.22 | 0.14 | 0.11 | 0.23 | 0.01 | 5.5% |
| SC-135.02 | 10 min | 4361 | 1.19 | 1.20 | 0.09 | 1.20 | 1.24 | 1.04 | 1.14 | 0.77 | 0.64 | 1.24 | 0.04 | 3.2% |
| SC-135.03 | 10 min | 4365 | 1.57 | 1.59 | 0.11 | 1.59 | 1.64 | 1.39 | 1.52 | 1.02 | 0.85 | 1.64 | 0.05 | 3.0% |
| SC-135.04 | 10 min | 4365 | 3.48 | 3.52 | 0.26 | 3.53 | 3.63 | 3.08 | 3.37 | 2.28 | 1.90 | 3.63 | 0.10 | 2.7% |
| SC-135.05 | 10 min | 4365 | 3.96 | 4.00 | 0.23 | 4.00 | 4.10 | 3.56 | 3.76 | 2.54 | 2.19 | 4.10 | 0.10 | 2.5% |
| SC-135.06 | 10 min | 4354 | 6.49 | 6.40 | 0.37 | 6.46 | 6.46 | 5.96 | 5.81 | 4.06 | 3.65 | 6.46 | 0.00 | 0.0% |
| SC-136.01 | 10 min | 4363 | 0.64 | 0.65 | 0.05 | 0.67 | 0.70 | 0.53 | 0.65 | 0.41 | 0.32 | 0.70 | 0.03 | 4.2% |
| SC-137.01 | 10 min | 4363 | 0.65 | 0.66 | 0.06 | 0.68 | 0.71 | 0.55 | 0.65 | 0.42 | 0.34 | 0.71 | 0.02 | 3.7% |
| SC-138.01 | 10 min | 4368 | 0.78 | 0.80 | 0.06 | 0.80 | 0.83 | 0.67 | 0.77 | 0.51 | 0.42 | 0.83 | 0.03 | 3.7% |
| SC-139.01 | 10 min | 4363 | 0.76 | 0.78 | 0.06 | 0.79 | 0.83 | 0.66 | 0.77 | 0.48 | 0.41 | 0.83 | 0.04 | 4.8% |
| SC-139.02 | 10 min | 4363 | 0.93 | 0.95 | 0.07 | 0.95 | 0.99 | 0.82 | 0.92 | 0.59 | 0.50 | 0.99 | 0.04 | 4.7% |
| SC-14.01 | 10 min | 4363 | 0.93 | 0.95 | 0.08 | 0.98 | 1.02 | 0.77 | 0.94 | 0.59 | 0.47 | 1.02 | 0.04 | 4.0% |
| SC-14.02 | 10 min | 4368 | 1.45 | 1.48 | 0.11 | 1.48 | 1.54 | 1.26 | 1.43 | 0.94 | 0.76 | 1.54 | 0.06 | 3.9% |
| SC-14.03 | 10 min | 4368 | 1.89 | 1.93 | 0.14 | 1.93 | 2.00 | 1.67 | 1.86 | 1.23 | 1.01 | 2.00 | 0.07 | 3.6% |
| SC-140.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.56 | 0.58 | 0.45 | 0.54 | 0.34 | 0.28 | 0.58 | 0.02 | 4.2% |
| SC-141.01 | 10 min | 4364 | 0.84 | 0.86 | 0.09 | 0.87 | 0.74 | 0.86 | 0.75 | 0.53 | 0.49 | 0.86 | -0.01 | -1.5% |
| SC-142.01 | 20 min | 4433 | 1.36 | 1.32 | 0.17 | 1.34 | 0.98 | 1.37 | 1.28 | 0.97 | 0.88 | 1.37 | 0.03 | 2.3% |
| SC-143.01 | 20 min | 4367 | 0.50 | 0.50 | 0.06 | 0.51 | 0.46 | 0.48 | 0.52 | 0.36 | 0.35 | 0.52 | 0.01 | 1.1% |
| SC-143.02 | 10 min | 4364 | 4.23 | 4.11 | 0.34 | 4.13 | 4.04 | 4.21 | 3.98 | 2.75 | 2.57 | 4.21 | 0.08 | 1.8% |
| SC-144.01 | 10 min | 4368 | 0.62 | 0.63 | 0.05 | 0.63 | 0.66 | 0.55 | 0.61 | 0.39 | 0.36 | 0.66 | 0.03 | 4.7% |
| SC-144.02 | 10 min | 4365 | 0.88 | 0.89 | 0.06 | 0.90 | 0.92 | 0.81 | 0.85 | 0.56 | 0.53 | 0.92 | 0.02 | 2.7% |
| SC-144.03 | 10 min | 4368 | 1.17 | 1.18 | 0.05 | 1.19 | 1.22 | 1.13 | 1.11 | 0.76 | 0.74 | 1.22 | 0.03 | 2.6% |
| SC-144.04 | 10 min | 4364 | 2.08 | 2.07 | 0.05 | 2.07 | 2.04 | 2.08 | 1.75 | 1.38 | 1.30 | 2.08 | 0.01 | 0.4% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-144.05 | 10 min | 4364 | 3.94 | 3.94 | 0.19 | 3.95 | 3.75 | 3.83 | 3.21 | 2.39 | 2.33 | 3.83 | -0.13 | -3.2% |
| SC-145.01 | 10 min | 4363 | 0.79 | 0.81 | 0.07 | 0.82 | 0.86 | 0.66 | 0.79 | 0.52 | 0.40 | 0.86 | 0.04 | 4.9% |
| SC-145.02 | 10 min | 4368 | 1.47 | 1.51 | 0.12 | 1.52 | 1.57 | 1.23 | 1.45 | 0.95 | 0.75 | 1.57 | 0.04 | 3.0% |
| SC-146.01 | 20 min | 4399 | 1.54 | 1.50 | 0.18 | 1.50 | 1.09 | 1.58 | 1.35 | 1.10 | 1.00 | 1.58 | 0.08 | 5.5% |
| SC-147.01 | 15 min | 4392 | 0.72 | 0.67 | 0.14 | 0.67 | 0.65 | 0.77 | 0.65 | 0.46 | 0.44 | 0.77 | 0.10 | 15.5% |
| SC-147.02 | 15 min | 4401 | 1.01 | 0.95 | 0.19 | 0.95 | 0.89 | 1.08 | 0.90 | 0.65 | 0.62 | 1.08 | 0.13 | 13.9% |
| SC-147.03 | 10 min | 4364 | 2.61 | 2.66 | 0.32 | 2.68 | 2.25 | 2.69 | 2.41 | 1.75 | 1.59 | 2.69 | 0.01 | 0.3% |
| SC-148.01 | 10 min | 4363 | 0.66 | 0.68 | 0.05 | 0.68 | 0.71 | 0.57 | 0.66 | 0.42 | 0.34 | 0.71 | 0.03 | 4.5% |
| SC-148.02 | 10 min | 4364 | 1.41 | 1.43 | 0.20 | 1.45 | 1.17 | 1.36 | 1.28 | 0.93 | 0.80 | 1.36 | -0.09 | -6.5% |
| SC-149.01 | 10 min | 4361 | 0.47 | 0.48 | 0.03 | 0.48 | 0.49 | 0.44 | 0.47 | 0.31 | 0.30 | 0.49 | 0.01 | 1.7% |
| SC-149.02 | 10 min | 4364 | 1.50 | 1.53 | 0.18 | 1.55 | 1.29 | 1.50 | 1.41 | 0.99 | 0.92 | 1.50 | -0.05 | -3.2% |
| SC-15.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.98 | 1.03 | 0.80 | 0.95 | 0.61 | 0.49 | 1.03 | 0.05 | 4.9% |
| SC-15.02 | 10 min | 4363 | 1.25 | 1.27 | 0.11 | 1.30 | 1.35 | 1.06 | 1.25 | 0.81 | 0.66 | 1.35 | 0.05 | 4.2% |
| SC-15.03 | 10 min | 4368 | 1.99 | 2.03 | 0.16 | 2.04 | 2.11 | 1.73 | 1.95 | 1.29 | 1.07 | 2.11 | 0.06 | 3.2% |
| SC-150.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.60 | 0.62 | 0.47 | 0.58 | 0.36 | 0.29 | 0.62 | 0.02 | 3.8% |
| SC-150.02 | 10 min | 4363 | 1.11 | 1.13 | 0.09 | 1.14 | 1.19 | 0.97 | 1.10 | 0.72 | 0.59 | 1.19 | 0.05 | 4.3% |
| SC-150.03 | 10 min | 4365 | 2.84 | 2.88 | 0.21 | 2.89 | 2.97 | 2.51 | 2.76 | 1.86 | 1.54 | 2.97 | 0.08 | 2.7% |
| SC-150.04 | 10 min | 4365 | 3.69 | 3.75 | 0.27 | 3.77 | 3.87 | 3.26 | 3.57 | 2.41 | 2.02 | 3.87 | 0.10 | 2.7% |
| SC-150.05 | 10 min | 4365 | 5.14 | 5.18 | 0.32 | 5.20 | 5.32 | 4.58 | 4.87 | 3.35 | 2.85 | 5.32 | 0.12 | 2.2% |
| SC-150.06 | 10 min | 4354 | 9.49 | 9.54 | 0.47 | 9.63 | 9.63 | 8.66 | 8.75 | 6.08 | 5.38 | 9.63 | 0.00 | 0.0% |
| SC-150.07 | 10 min | 4354 | 14.96 | 14.82 | 0.83 | 14.97 | 14.97 | 13.74 | 13.78 | 9.66 | 8.57 | 14.97 | 0.00 | 0.0% |
| SC-150.08 | 1.50 hour | 4532 | 7.79 | 7.74 | 1.68 | 7.81 | 0.31 | 0.35 | 0.38 | 7.67 | 10.01 | 10.01 | 2.20 | 28.2% |
| SC-150.09 | 1.50 hour | 4532 | 8.24 | 8.21 | 1.72 | 8.28 | 2.38 | 2.14 | 2.22 | 8.14 | 10.71 | 10.71 | 2.43 | 29.4% |
| SC-150.10 | 2 hours | 4614 | 9.96 | 10.43 | 2.43 | 10.44 | 5.97 | 5.94 | 5.36 | 9.86 | 13.07 | 13.07 | 2.63 | 25.2% |
| SC-150.11 | 10 min | 4354 | 16.17 | 16.13 | 0.63 | 16.22 | 16.22 | 15.59 | 14.46 | 13.09 | 16.93 | 16.93 | 0.71 | 4.4% |
| SC-150.12 | 10 min | 4361 | 25.26 | 25.36 | 0.84 | 25.46 | 25.51 | 24.30 | 22.70 | 16.60 | 21.37 | 25.51 | 0.05 | 0.2% |
| SC-150.13 | 15 min | 4396 | 28.72 | 28.69 | 1.14 | 28.86 | 29.08 | 27.86 | 26.05 | 19.75 | 23.73 | 29.08 | 0.22 | 0.8% |
| SC-150.14 | 15 min | 4407 | 42.69 | 42.40 | 1.32 | 42.62 | 40.68 | 40.55 | 37.03 | 32.11 | 33.62 | 40.68 | -1.94 | -4.5% |
| SC-150.15 | 15 min | 4407 | 43.20 | 42.85 | 1.31 | 42.94 | 41.07 | 41.04 | 37.86 | 32.73 | 34.22 | 41.07 | -1.87 | -4.4% |
| SC-150.16 | 15 min | 4397 | 45.15 | 45.08 | 1.41 | 45.14 | 42.57 | 42.85 | 40.73 | 34.95 | 35.92 | 42.85 | -2.30 | -5.1% |
| SC-150.17 | 15 min | 4398 | 45.81 | 45.76 | 1.57 | 45.87 | 43.07 | 43.38 | 42.70 | 36.02 | 36.83 | 43.38 | -2.49 | -5.4% |
| SC-151.01 | 10 min | 4363 | 0.76 | 0.77 | 0.07 | 0.80 | 0.83 | 0.63 | 0.77 | 0.49 | 0.38 | 0.83 | 0.03 | 4.0% |
| SC-151.02 | 10 min | 4363 | 1.18 | 1.20 | 0.09 | 1.21 | 1.27 | 1.02 | 1.17 | 0.77 | 0.62 | 1.27 | 0.05 | 4.5% |
| SC-152.01 | 10 min | 4363 | 0.67 | 0.69 | 0.06 | 0.70 | 0.73 | 0.57 | 0.67 | 0.43 | 0.35 | 0.73 | 0.03 | 4.1% |
| SC-153.01 | 10 min | 4363 | 0.55 | 0.56 | 0.05 | 0.57 | 0.59 | 0.45 | 0.55 | 0.36 | 0.29 | 0.59 | 0.02 | 4.3% |
| SC-153.02 | 10 min | 4365 | 1.31 | 1.33 | 0.10 | 1.34 | 1.38 | 1.12 | 1.28 | 0.87 | 0.71 | 1.38 | 0.03 | 2.6% |
| SC-154.01 | 10 min | 4363 | 1.01 | 1.03 | 0.08 | 1.04 | 1.08 | 0.88 | 1.00 | 0.64 | 0.56 | 1.08 | 0.04 | 4.1% |
| SC-154.02 | 10 min | 4361 | 3.42 | 3.45 | 0.23 | 3.49 | 3.50 | 3.10 | 3.26 | 2.25 | 1.95 | 3.50 | 0.01 | 0.4% |
| SC-155.01 | 10 min | 4354 | 0.38 | 0.38 | 0.02 | 0.38 | 0.38 | 0.36 | 0.35 | 0.24 | 0.21 | 0.38 | 0.00 | 0.5% |
| SC-155.02 | 10 min | 4361 | 1.07 | 1.08 | 0.07 | 1.09 | 1.10 | 1.00 | 1.02 | 0.68 | 0.60 | 1.10 | 0.01 | 0.8% |
| SC-156.01 | 10 min | 4363 | 0.41 | 0.42 | 0.04 | 0.43 | 0.44 | 0.35 | 0.41 | 0.27 | 0.22 | 0.44 | 0.01 | 3.4% |
| SC-157.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.52 | 0.41 | 0.49 | 0.32 | 0.26 | 0.52 | 0.01 | 2.9% |
| SC-158.01 | 10 min | 4363 | 0.65 | 0.66 | 0.06 | 0.68 | 0.71 | 0.54 | 0.65 | 0.41 | 0.33 | 0.71 | 0.03 | 3.9% |
| SC-158.02 | 10 min | 4363 | 0.84 | 0.85 | 0.07 | 0.86 | 0.89 | 0.72 | 0.83 | 0.54 | 0.44 | 0.89 | 0.03 | 4.0% |
| SC-158.03 | 10 min | 4361 | 1.82 | 1.84 | 0.13 | 1.84 | 1.89 | 1.62 | 1.75 | 1.18 | 0.99 | 1.89 | 0.05 | 2.6% |
| SC-158.04 | 10 min | 4365 | 3.39 | 3.45 | 0.27 | 3.48 | 3.58 | 2.98 | 3.32 | 2.22 | 1.84 | 3.58 | 0.10 | 2.8% |
| SC-159.01 | 10 min | 4363 | 0.51 | 0.52 | 0.04 | 0.53 | 0.56 | 0.43 | 0.52 | 0.33 | 0.26 | 0.56 | 0.03 | 5.2% |
| SC-16.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.65 | 0.67 | 0.51 | 0.63 | 0.39 | 0.31 | 0.67 | 0.02 | 3.8% |
| SC-160.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.52 | 0.54 | 0.41 | 0.51 | 0.32 | 0.25 | 0.54 | 0.02 | 4.7% |
| SC-160.02 | 10 min | 4368 | 1.12 | 1.15 | 0.09 | 1.15 | 1.19 | 0.99 | 1.10 | 0.73 | 0.60 | 1.19 | 0.04 | 3.6% |
| SC-161.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.64 | 0.66 | 0.50 | 0.62 | 0.39 | 0.30 | 0.66 | 0.02 | 3.8% |
| SC-161.02 | 10 min | 4363 | 1.16 | 1.19 | 0.09 | 1.20 | 1.25 | 1.00 | 1.16 | 0.76 | 0.61 | 1.25 | 0.05 | 3.8% |
| SC-162.01 | 10 min | 4363 | 0.71 | 0.73 | 0.06 | 0.73 | 0.77 | 0.61 | 0.71 | 0.46 | 0.38 | 0.77 | 0.04 | 4.8% |
| SC-163.01 | 10 min | 4354 | 0.41 | 0.40 | 0.02 | 0.40 | 0.40 | 0.41 | 0.37 | 0.26 | 0.24 | 0.41 | 0.01 | 2.2% |
| SC-163.02 | 10 min | 4354 | 0.79 | 0.76 | 0.06 | 0.77 | 0.77 | 0.77 | 0.72 | 0.50 | 0.46 | 0.77 | 0.00 | 0.0% |
| SC-163.03 | 10 min | 4354 | 1.29 | 1.28 | 0.08 | 1.30 | 1.30 | 1.23 | 1.21 | 0.82 | 0.74 | 1.30 | 0.00 | 0.2% |
| SC-163.04 | 10 min | 4361 | 1.80 | 1.81 | 0.12 | 1.83 | 1.85 | 1.66 | 1.72 | 1.16 | 1.02 | 1.85 | 0.02 | 1.2% |
| SC-163.05 | 10 min | 4361 | 3.12 | 3.15 | 0.21 | 3.18 | 3.20 | 2.84 | 2.97 | 2.04 | 1.77 | 3.20 | 0.02 | 0.7% |
| SC-164.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.63 | 0.66 | 0.53 | 0.61 | 0.41 | 0.33 | 0.66 | 0.03 | 4.4% |
| SC-165.01 | 10 min | 4368 | 0.53 | 0.54 | 0.04 | 0.54 | 0.56 | 0.45 | 0.52 | 0.35 | 0.28 | 0.56 | 0.02 | 4.3% |
| SC-165.02 | 10 min | 4363 | 1.37 | 1.40 | 0.11 | 1.41 | 1.47 | 1.17 | 1.35 | 0.90 | 0.74 | 1.47 | 0.06 | 4.0% |
| SC-165.03 | 10 min | 4368 | 1.78 | 1.82 | 0.14 | 1.83 | 1.89 | 1.53 | 1.75 | 1.18 | 0.97 | 1.89 | 0.06 | 3.1% |
| SC-165.04 | 10 min | 4365 | 3.84 | 3.88 | 0.24 | 3.90 | 4.00 | 3.43 | 3.68 | 2.50 | 2.14 | 4.00 | 0.10 | 2.4% |
| SC-165.05 | 10 min | 4365 | 6.48 | 6.52 | 0.38 | 6.52 | 6.66 | 5.78 | 6.08 | 4.22 | 3.64 | 6.66 | 0.14 | 2.1% |
| SC-166.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.50 | 0.52 | 0.41 | 0.48 | 0.32 | 0.26 | 0.52 | 0.02 | 3.4% |
| SC-167.01 | 10 min | 4363 | 0.72 | 0.73 | 0.06 | 0.75 | 0.78 | 0.59 | 0.73 | 0.46 | 0.36 | 0.78 | 0.03 | 4.5% |
| SC-167.02 | 10 min | 4368 | 1.83 | 1.87 | 0.14 | 1.88 | 1.95 | 1.59 | 1.81 | 1.18 | 0.96 | 1.95 | 0.07 | 3.5% |
| SC-168.01 | 10 min | 4363 | 0.58 | 0.60 | 0.05 | 0.61 | 0.64 | 0.49 | 0.59 | 0.37 | 0.30 | 0.64 | 0.03 | 4.3% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-169.01 | 10 min | 4363 | 0.54 | 0.55 | 0.04 | 0.55 | 0.57 | 0.45 | 0.53 | 0.35 | 0.29 | 0.57 | 0.02 | 3.9% |
| SC-169.02 | 10 min | 4365 | 1.00 | 1.01 | 0.08 | 1.02 | 1.05 | 0.88 | 0.97 | 0.65 | 0.56 | 1.05 | 0.03 | 2.8% |
| SC-169.03 | 10 min | 4368 | 2.23 | 2.28 | 0.18 | 2.28 | 2.37 | 1.91 | 2.20 | 1.47 | 1.22 | 2.37 | 0.09 | 4.0% |
| SC-17.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.57 | 0.59 | 0.45 | 0.55 | 0.34 | 0.27 | 0.59 | 0.02 | 3.5% |
| SC-17.02 | 10 min | 4368 | 0.94 | 0.96 | 0.07 | 0.96 | 1.00 | 0.82 | 0.93 | 0.61 | 0.50 | 1.00 | 0.04 | 4.2% |
| SC-17.03 | 10 min | 4365 | 1.58 | 1.60 | 0.12 | 1.61 | 1.65 | 1.39 | 1.53 | 1.02 | 0.84 | 1.65 | 0.04 | 2.7% |
| SC-17.04 | 10 min | 4354 | 3.76 | 3.75 | 0.26 | 3.80 | 3.80 | 3.39 | 3.52 | 2.37 | 2.04 | 3.80 | 0.00 | 0.1% |
| SC-17.05 | 10 min | 4354 | 5.17 | 5.14 | 0.32 | 5.21 | 5.21 | 4.79 | 4.76 | 3.27 | 2.85 | 5.21 | 0.00 | -0.1% |
| SC-17.06 | 10 min | 4354 | 5.84 | 5.80 | 0.32 | 5.86 | 5.86 | 5.50 | 5.40 | 3.73 | 3.29 | 5.86 | 0.00 | 0.0% |
| SC-17.07 | 10 min | 4361 | 6.21 | 6.23 | 0.28 | 6.27 | 6.27 | 5.91 | 5.72 | 3.97 | 3.56 | 6.27 | 0.00 | 0.0% |
| SC-170.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.50 | 0.52 | 0.41 | 0.48 | 0.31 | 0.25 | 0.52 | 0.02 | 4.8% |
| SC-171.01 | 10 min | 4363 | 0.34 | 0.35 | 0.03 | 0.36 | 0.38 | 0.27 | 0.35 | 0.22 | 0.17 | 0.38 | 0.02 | 5.4% |
| SC-172.01 | 10 min | 4366 | 0.69 | 0.70 | 0.06 | 0.72 | 0.76 | 0.55 | 0.70 | 0.44 | 0.33 | 0.76 | 0.04 | 5.1% |
| SC-172.02 | 10 min | 4363 | 1.18 | 1.20 | 0.10 | 1.22 | 1.27 | 0.99 | 1.18 | 0.77 | 0.60 | 1.27 | 0.05 | 4.3% |
| SC-173.01 | 25 min | 4462 | 0.71 | 0.70 | 0.06 | 0.71 | 0.43 | 0.62 | 0.72 | 0.57 | 0.58 | 0.72 | 0.01 | 0.9% |
| SC-173.02 | 20 min | 4433 | 1.51 | 1.47 | 0.17 | 1.48 | 1.23 | 1.43 | 1.54 | 1.13 | 1.08 | 1.54 | 0.06 | 4.3% |
| SC-173.03 | 20 min | 4367 | 1.53 | 1.52 | 0.17 | 1.55 | 1.38 | 1.44 | 1.55 | 1.17 | 1.16 | 1.55 | 0.00 | 0.1% |
| SC-173.04 | 10 min | 4361 | 2.61 | 2.63 | 0.17 | 2.65 | 2.68 | 2.48 | 2.57 | 1.81 | 1.76 | 2.68 | 0.03 | 1.2% |
| SC-173.05 | 10 min | 4363 | 3.06 | 3.09 | 0.13 | 3.12 | 3.20 | 2.85 | 2.89 | 2.03 | 2.08 | 3.20 | 0.08 | 2.6% |
| SC-174.01 | 10 min | 4363 | 0.44 | 0.44 | 0.04 | 0.46 | 0.48 | 0.35 | 0.45 | 0.28 | 0.21 | 0.48 | 0.02 | 4.7% |
| SC-175.01 | 10 min | 4363 | 0.77 | 0.78 | 0.07 | 0.81 | 0.84 | 0.64 | 0.78 | 0.49 | 0.39 | 0.84 | 0.03 | 3.6% |
| SC-175.02 | 10 min | 4363 | 1.57 | 1.60 | 0.13 | 1.61 | 1.67 | 1.37 | 1.55 | 1.01 | 0.83 | 1.67 | 0.06 | 4.0% |
| SC-175.03 | 10 min | 4365 | 2.54 | 2.59 | 0.21 | 2.61 | 2.69 | 2.22 | 2.49 | 1.64 | 1.36 | 2.69 | 0.08 | 2.9% |
| SC-175.04 | 10 min | 4363 | 3.10 | 3.16 | 0.24 | 3.16 | 3.29 | 2.77 | 3.03 | 2.01 | 1.75 | 3.29 | 0.13 | 4.1% |
| SC-175.05 | 10 min | 4368 | 3.51 | 3.56 | 0.18 | 3.57 | 3.66 | 3.21 | 3.32 | 2.22 | 2.00 | 3.66 | 0.09 | 2.5% |
| SC-176.01 | 10 min | 4361 | 0.33 | 0.33 | 0.02 | 0.33 | 0.33 | 0.33 | 0.32 | 0.22 | 0.21 | 0.33 | 0.00 | 1.2% |
| SC-177.01 | 10 min | 4363 | 0.43 | 0.44 | 0.04 | 0.45 | 0.47 | 0.35 | 0.44 | 0.28 | 0.21 | 0.47 | 0.02 | 4.7% |
| SC-177.02 | 10 min | 4354 | 1.15 | 1.14 | 0.08 | 1.16 | 1.16 | 1.02 | 1.07 | 0.73 | 0.61 | 1.16 | 0.00 | 0.1% |
| SC-177.03 | 10 min | 4361 | 3.13 | 3.17 | 0.23 | 3.17 | 3.25 | 2.80 | 3.02 | 2.05 | 1.71 | 3.25 | 0.08 | 2.5% |
| SC-177.04 | 10 min | 4365 | 4.28 | 4.33 | 0.31 | 4.33 | 4.46 | 3.83 | 4.13 | 2.79 | 2.34 | 4.46 | 0.13 | 3.1% |
| SC-178.01 | 10 min | 4363 | 0.94 | 0.96 | 0.08 | 0.98 | 1.02 | 0.79 | 0.94 | 0.60 | 0.49 | 1.02 | 0.04 | 4.0% |
| SC-178.02 | 10 min | 4365 | 1.43 | 1.45 | 0.11 | 1.46 | 1.50 | 1.26 | 1.39 | 0.92 | 0.77 | 1.50 | 0.04 | 2.9% |
| SC-179.01 | 10 min | 4363 | 0.77 | 0.78 | 0.07 | 0.80 | 0.84 | 0.64 | 0.78 | 0.49 | 0.39 | 0.84 | 0.04 | 4.7% |
| SC-18.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.65 | 0.50 | 0.60 | 0.38 | 0.30 | 0.65 | 0.03 | 4.6% |
| SC-18.02 | 10 min | 4354 | 0.96 | 0.96 | 0.07 | 0.98 | 0.98 | 0.84 | 0.91 | 0.60 | 0.50 | 0.98 | 0.00 | -0.5% |
| SC-180.01 | 10 min | 4363 | 0.74 | 0.76 | 0.07 | 0.77 | 0.81 | 0.62 | 0.75 | 0.48 | 0.38 | 0.81 | 0.04 | 4.8% |
| SC-180.02 | 10 min | 4368 | 1.28 | 1.30 | 0.10 | 1.31 | 1.35 | 1.14 | 1.25 | 0.82 | 0.71 | 1.35 | 0.04 | 3.1% |
| SC-180.03 | 10 min | 4365 | 1.80 | 1.83 | 0.13 | 1.84 | 1.89 | 1.60 | 1.75 | 1.16 | 1.00 | 1.89 | 0.05 | 2.7% |
| SC-180.04 | 10 min | 4365 | 2.58 | 2.63 | 0.21 | 2.65 | 2.73 | 2.27 | 2.53 | 1.68 | 1.43 | 2.73 | 0.08 | 2.9% |
| SC-181.01 | 20 min | 4371 | 0.33 | 0.33 | 0.04 | 0.33 | 0.30 | 0.33 | 0.33 | 0.23 | 0.22 | 0.33 | 0.00 | 0.5% |
| SC-181.02 | 10 min | 4354 | 1.07 | 1.07 | 0.07 | 1.08 | 1.08 | 1.00 | 1.01 | 0.68 | 0.63 | 1.08 | 0.00 | 0.3% |
| SC-181.03 | 10 min | 4365 | 1.76 | 1.78 | 0.13 | 1.79 | 1.84 | 1.57 | 1.70 | 1.15 | 1.00 | 1.84 | 0.05 | 2.9% |
| SC-181.04 | 10 min | 4361 | 3.21 | 3.23 | 0.21 | 3.24 | 3.32 | 2.97 | 3.05 | 2.07 | 1.94 | 3.32 | 0.07 | 2.3% |
| SC-181.05 | 10 min | 4363 | 3.52 | 3.53 | 0.13 | 3.54 | 3.65 | 3.33 | 3.31 | 2.26 | 2.17 | 3.65 | 0.11 | 3.2% |
| SC-181.06 | 10 min | 4363 | 3.89 | 3.91 | 0.12 | 3.94 | 4.03 | 3.68 | 3.62 | 2.51 | 2.39 | 4.03 | 0.09 | 2.3% |
| SC-181.07 | 10 min | 4354 | 8.73 | 8.65 | 0.26 | 8.69 | 8.69 | 8.33 | 7.73 | 5.47 | 5.19 | 8.69 | 0.00 | 0.0% |
| SC-181.08 | 10 min | 4354 | 9.01 | 8.98 | 0.20 | 9.01 | 9.01 | 8.53 | 7.99 | 5.67 | 5.39 | 9.01 | 0.00 | 0.0% |
| SC-182.01 | 10 min | 4363 | 0.52 | 0.53 | 0.05 | 0.54 | 0.57 | 0.45 | 0.53 | 0.33 | 0.27 | 0.57 | 0.03 | 5.2% |
| SC-182.02 | 10 min | 4365 | 0.85 | 0.86 | 0.06 | 0.87 | 0.89 | 0.77 | 0.83 | 0.54 | 0.47 | 0.89 | 0.02 | 2.5% |
| SC-182.03 | 10 min | 4354 | 1.36 | 1.34 | 0.09 | 1.36 | 1.36 | 1.33 | 1.32 | 0.88 | 0.85 | 1.36 | 0.00 | 0.0% |
| SC-183.01 | 10 min | 4361 | 0.50 | 0.51 | 0.03 | 0.51 | 0.52 | 0.49 | 0.48 | 0.32 | 0.31 | 0.52 | 0.01 | 2.3% |
| SC-183.02 | 10 min | 4365 | 1.14 | 1.15 | 0.08 | 1.15 | 1.19 | 1.04 | 1.10 | 0.72 | 0.66 | 1.19 | 0.04 | 3.3% |
| SC-183.03 | 10 min | 4361 | 2.82 | 2.85 | 0.17 | 2.85 | 2.91 | 2.59 | 2.65 | 1.78 | 1.62 | 2.91 | 0.06 | 2.0% |
| SC-183.04 | 10 min | 4365 | 3.25 | 3.28 | 0.16 | 3.29 | 3.34 | 2.99 | 3.00 | 2.06 | 1.89 | 3.34 | 0.05 | 1.6% |
| SC-184.01 | 10 min | 4363 | 1.21 | 1.24 | 0.10 | 1.25 | 1.31 | 1.06 | 1.21 | 0.77 | 0.66 | 1.31 | 0.06 | 4.8% |
| SC-185.01 | 10 min | 4363 | 0.72 | 0.73 | 0.06 | 0.75 | 0.79 | 0.60 | 0.73 | 0.46 | 0.36 | 0.79 | 0.04 | 4.8% |
| SC-185.02 | 10 min | 4368 | 1.60 | 1.63 | 0.13 | 1.64 | 1.70 | 1.40 | 1.57 | 1.03 | 0.85 | 1.70 | 0.06 | 3.6% |
| SC-186.01 | 10 min | 4363 | 0.25 | 0.26 | 0.02 | 0.27 | 0.28 | 0.21 | 0.26 | 0.17 | 0.13 | 0.28 | 0.01 | 2.2% |
| SC-187.01 | 10 min | 4363 | 0.73 | 0.74 | 0.06 | 0.76 | 0.80 | 0.60 | 0.74 | 0.46 | 0.36 | 0.80 | 0.04 | 4.6% |
| SC-187.02 | 10 min | 4363 | 1.42 | 1.45 | 0.11 | 1.45 | 1.52 | 1.24 | 1.40 | 0.92 | 0.76 | 1.52 | 0.06 | 4.5% |
| SC-187.03 | 10 min | 4363 | 1.66 | 1.68 | 0.12 | 1.73 | 1.79 | 1.47 | 1.64 | 1.08 | 0.91 | 1.79 | 0.06 | 3.4% |
| SC-187.04 | 10 min | 4366 | 2.16 | 2.12 | 0.08 | 2.14 | 2.26 | 1.96 | 2.02 | 1.35 | 1.20 | 2.26 | 0.12 | 5.7% |
| SC-187.05 | 10 min | 4356 | 2.55 | 2.55 | 0.07 | 2.55 | 2.63 | 2.34 | 2.31 | 1.58 | 1.41 | 2.63 | 0.08 | 3.0% |
| SC-188.01 | 10 min | 4363 | 0.77 | 0.78 | 0.06 | 0.80 | 0.84 | 0.64 | 0.78 | 0.49 | 0.38 | 0.84 | 0.04 | 4.6% |
| SC-188.02 | 10 min | 4368 | 1.14 | 1.16 | 0.09 | 1.17 | 1.21 | 1.00 | 1.12 | 0.73 | 0.60 | 1.21 | 0.04 | 3.3% |
| SC-189.01 | 10 min | 4363 | 0.87 | 0.88 | 0.07 | 0.91 | 0.95 | 0.72 | 0.88 | 0.55 | 0.44 | 0.95 | 0.04 | 4.2% |
| SC-189.02 | 10 min | 4363 | 1.56 | 1.59 | 0.13 | 1.61 | 1.68 | 1.32 | 1.56 | 1.02 | 0.83 | 1.68 | 0.07 | 4.1% |
| SC-19.01 | 10 min | 4354 | 0.37 | 0.36 | 0.02 | 0.37 | 0.37 | 0.33 | 0.34 | 0.23 | 0.20 | 0.37 | 0.00 | -1.0% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-190.01 | 10 min | 4363 | 0.38 | 0.39 | 0.03 | 0.40 | 0.42 | 0.31 | 0.39 | 0.24 | 0.19 | 0.42 | 0.02 | 3.7% |
| SC-191.01 | 10 min | 4363 | 0.70 | 0.71 | 0.06 | 0.73 | 0.76 | 0.58 | 0.71 | 0.44 | 0.35 | 0.76 | 0.03 | 4.2% |
| SC-191.02 | 10 min | 4363 | 1.01 | 1.03 | 0.08 | 1.03 | 1.08 | 0.88 | 1.00 | 0.65 | 0.53 | 1.08 | 0.05 | 4.5% |
| SC-191.03 | 10 min | 4365 | 1.87 | 1.89 | 0.13 | 1.90 | 1.95 | 1.67 | 1.81 | 1.21 | 1.01 | 1.95 | 0.05 | 2.8% |
| SC-191.04 | 10 min | 4365 | 2.73 | 2.76 | 0.21 | 2.78 | 2.86 | 2.41 | 2.65 | 1.78 | 1.48 | 2.86 | 0.08 | 2.8% |
| SC-191.05 | 10 min | 4361 | 3.80 | 3.84 | 0.25 | 3.85 | 3.92 | 3.41 | 3.59 | 2.44 | 2.09 | 3.92 | 0.07 | 1.9% |
| SC-191.06 | 10 min | 4361 | 6.52 | 6.58 | 0.40 | 6.62 | 6.71 | 5.96 | 6.19 | 4.24 | 3.87 | 6.71 | 0.09 | 1.3% |
| SC-191.07 | 10 min | 4354 | 7.87 | 7.85 | 0.41 | 7.93 | 7.93 | 7.38 | 7.20 | 5.02 | 4.77 | 7.93 | 0.00 | 0.0% |
| SC-191.08 | 10 min | 4363 | 8.47 | 8.53 | 0.39 | 8.63 | 8.81 | 7.88 | 7.89 | 5.66 | 5.45 | 8.81 | 0.18 | 2.1% |
| SC-192.01 | 10 min | 4368 | 2.20 | 2.24 | 0.17 | 2.25 | 2.33 | 1.90 | 2.15 | 1.44 | 1.20 | 2.33 | 0.08 | 3.6% |
| SC-193.01 | 10 min | 4363 | 1.00 | 1.02 | 0.08 | 1.02 | 1.07 | 0.89 | 0.98 | 0.63 | 0.57 | 1.07 | 0.05 | 4.5% |
| SC-194.01 | 10 min | 4361 | 1.01 | 1.02 | 0.06 | 1.03 | 1.04 | 1.01 | 0.99 | 0.67 | 0.64 | 1.04 | 0.01 | 0.8% |
| SC-194.02 | 20 min | 4433 | 3.90 | 3.89 | 0.35 | 3.91 | 2.64 | 3.55 | 3.92 | 3.06 | 2.93 | 3.92 | 0.00 | 0.1% |
| SC-194.03 | 25 min | 4461 | 4.12 | 4.14 | 0.44 | 4.20 | 3.27 | 3.72 | 4.06 | 3.33 | 3.36 | 4.06 | -0.14 | -3.3% |
| SC-195.01 | 20 min | 4429 | 1.34 | 1.33 | 0.10 | 1.35 | 0.80 | 1.18 | 1.31 | 1.06 | 1.01 | 1.31 | -0.04 | -2.9% |
| SC-196.01 | 10 min | 4365 | 3.26 | 3.30 | 0.24 | 3.32 | 3.43 | 3.02 | 3.16 | 2.05 | 1.99 | 3.43 | 0.11 | 3.2% |
| SC-197.01 | 10 min | 4354 | 2.15 | 2.15 | 0.13 | 2.18 | 2.18 | 2.17 | 2.07 | 1.40 | 1.34 | 2.18 | 0.00 | 0.0% |
| SC-198.01 | 20 min | 4399 | 2.09 | 2.05 | 0.23 | 2.05 | 1.39 | 2.07 | 1.85 | 1.53 | 1.38 | 2.07 | 0.02 | 0.7% |
| SC-2.01 | 10 min | 4354 | 0.46 | 0.46 | 0.03 | 0.47 | 0.47 | 0.46 | 0.44 | 0.29 | 0.28 | 0.47 | 0.00 | -0.2% |
| SC-20.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.49 | 0.51 | 0.39 | 0.48 | 0.30 | 0.24 | 0.51 | 0.02 | 4.5% |
| SC-200.01 | 10 min | 4363 | 0.69 | 0.70 | 0.05 | 0.70 | 0.73 | 0.58 | 0.68 | 0.45 | 0.37 | 0.73 | 0.03 | 4.6% |
| SC-200.02 | 10 min | 4363 | 1.20 | 1.22 | 0.10 | 1.23 | 1.29 | 1.03 | 1.19 | 0.79 | 0.66 | 1.29 | 0.06 | 4.6% |
| SC-200.03 | 10 min | 4365 | 2.24 | 2.27 | 0.17 | 2.27 | 2.34 | 1.99 | 2.17 | 1.46 | 1.29 | 2.34 | 0.07 | 3.0% |
| SC-200.04 | 10 min | 4354 | 3.30 | 3.26 | 0.23 | 3.31 | 3.31 | 3.05 | 3.06 | 2.09 | 1.92 | 3.31 | 0.00 | 0.1% |
| SC-200.05 | 10 min | 4361 | 5.32 | 5.36 | 0.31 | 5.43 | 5.43 | 4.89 | 4.98 | 3.40 | 3.05 | 5.43 | 0.00 | 0.1% |
| SC-200.06 | 10 min | 4364 | 8.03 | 7.87 | 0.58 | 7.93 | 7.64 | 8.21 | 7.24 | 5.26 | 5.00 | 8.21 | 0.28 | 3.5% |
| SC-200.07 | 15 min | 4401 | 9.33 | 8.81 | 1.31 | 8.96 | 8.68 | 9.66 | 8.40 | 6.21 | 5.96 | 9.66 | 0.70 | 7.8% |
| SC-200.08 | 15 min | 4401 | 10.72 | 10.33 | 1.38 | 10.50 | 9.99 | 11.08 | 9.41 | 7.26 | 6.95 | 11.08 | 0.57 | 5.5% |
| SC-200.09 | 15 min | 4401 | 15.63 | 15.42 | 1.51 | 15.68 | 14.98 | 16.72 | 12.39 | 10.83 | 10.31 | 16.72 | 1.04 | 6.6% |
| SC-201.01 | 10 min | 4363 | 0.86 | 0.87 | 0.07 | 0.90 | 0.94 | 0.71 | 0.87 | 0.55 | 0.43 | 0.94 | 0.04 | 4.1% |
| SC-202.01 | 10 min | 4363 | 0.87 | 0.89 | 0.08 | 0.92 | 0.96 | 0.70 | 0.89 | 0.56 | 0.42 | 0.96 | 0.04 | 4.4% |
| SC-203.01 | 10 min | 4363 | 0.88 | 0.90 | 0.07 | 0.91 | 0.95 | 0.76 | 0.88 | 0.55 | 0.46 | 0.95 | 0.04 | 4.6% |
| SC-204.01 | 10 min | 4364 | 1.16 | 1.13 | 0.08 | 1.13 | 1.12 | 1.14 | 1.04 | 0.73 | 0.67 | 1.14 | 0.01 | 1.1% |
| SC-205.01 | 20 min | 4433 | 0.49 | 0.47 | 0.06 | 0.48 | 0.35 | 0.49 | 0.46 | 0.35 | 0.31 | 0.49 | 0.01 | 1.5% |
| SC-206.01 | 20 min | 4429 | 3.53 | 3.28 | 0.52 | 3.30 | 3.07 | 3.86 | 3.21 | 2.28 | 2.20 | 3.86 | 0.56 | 16.9% |
| SC-207.01 | 10 min | 4363 | 0.83 | 0.85 | 0.07 | 0.85 | 0.89 | 0.70 | 0.82 | 0.55 | 0.43 | 0.89 | 0.04 | 4.6% |
| SC-207.02 | 10 min | 4365 | 1.63 | 1.65 | 0.13 | 1.66 | 1.70 | 1.42 | 1.58 | 1.06 | 0.88 | 1.70 | 0.04 | 2.7% |
| SC-207.03 | 10 min | 4361 | 1.78 | 1.80 | 0.13 | 1.81 | 1.85 | 1.61 | 1.70 | 1.14 | 1.01 | 1.85 | 0.03 | 1.9% |
| SC-207.04 | 10 min | 4354 | 5.01 | 4.99 | 0.21 | 5.04 | 5.04 | 4.66 | 4.59 | 3.18 | 2.87 | 5.04 | 0.00 | 0.0% |
| SC-207.05 | 10 min | 4354 | 6.71 | 6.61 | 0.23 | 6.63 | 6.63 | 6.36 | 5.92 | 4.17 | 3.86 | 6.63 | 0.00 | -0.1% |
| SC-207.06 | 10 min | 4364 | 7.26 | 7.22 | 0.15 | 7.24 | 7.17 | 6.91 | 6.35 | 4.49 | 4.20 | 7.17 | -0.07 | -1.0% |
| SC-207.07 | 10 min | 4364 | 11.79 | 11.83 | 0.65 | 11.88 | 11.13 | 11.89 | 9.67 | 7.71 | 7.51 | 11.89 | 0.01 | 0.1% |
| SC-207.08 | 10 min | 4364 | 17.90 | 17.67 | 0.54 | 17.71 | 17.59 | 17.59 | 15.35 | 11.60 | 11.36 | 17.59 | -0.12 | -0.7% |
| SC-207.09 | 10 min | 4354 | 20.34 | 20.19 | 0.49 | 20.21 | 20.21 | 20.72 | 17.44 | 13.63 | 13.25 | 20.72 | 0.51 | 2.5% |
| SC-207.10 | 15 min | 4401 | 21.00 | 20.90 | 1.20 | 20.99 | 20.68 | 21.26 | 17.99 | 14.32 | 13.81 | 21.26 | 0.27 | 1.3% |
| SC-207.11 | 15 min | 4358 | 22.64 | 22.67 | 0.88 | 22.68 | 21.92 | 22.68 | 19.17 | 15.83 | 15.08 | 22.68 | 0.00 | 0.0% |
| SC-207.12 | 15 min | 4358 | 32.62 | 32.68 | 1.75 | 33.00 | 31.92 | 33.00 | 27.88 | 22.12 | 21.49 | 33.00 | 0.00 | 0.0% |
| SC-207.13 | 15 min | 4358 | 34.35 | 34.46 | 1.59 | 34.84 | 33.40 | 34.84 | 29.23 | 23.80 | 23.04 | 34.84 | 0.00 | 0.0% |
| SC-207.14 | 15 min | 4358 | 35.52 | 35.63 | 1.34 | 35.82 | 34.27 | 35.82 | 30.21 | 25.18 | 24.09 | 35.82 | 0.00 | 0.0% |
| SC-208.01 | 10 min | 4366 | 0.90 | 0.91 | 0.08 | 0.95 | 0.99 | 0.71 | 0.91 | 0.58 | 0.43 | 0.99 | 0.04 | 3.9% |
| SC-208.02 | 10 min | 4363 | 1.28 | 1.30 | 0.11 | 1.33 | 1.39 | 1.07 | 1.29 | 0.83 | 0.65 | 1.39 | 0.06 | 4.3% |
| SC-208.03 | 10 min | 4363 | 1.71 | 1.74 | 0.14 | 1.76 | 1.84 | 1.45 | 1.70 | 1.12 | 0.89 | 1.84 | 0.08 | 4.3% |
| SC-208.04 | 10 min | 4365 | 2.69 | 2.73 | 0.16 | 2.74 | 2.79 | 2.38 | 2.54 | 1.67 | 1.45 | 2.79 | 0.05 | 1.9% |
| SC-208.05 | 10 min | 4365 | 3.09 | 3.12 | 0.10 | 3.12 | 3.16 | 2.83 | 2.83 | 1.93 | 1.71 | 3.16 | 0.04 | 1.2% |
| SC-209.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.59 | 0.61 | 0.47 | 0.57 | 0.37 | 0.30 | 0.61 | 0.02 | 3.7% |
| SC-21.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.71 | 0.74 | 0.55 | 0.68 | 0.43 | 0.34 | 0.74 | 0.03 | 3.7% |
| SC-210.01 | 10 min | 4363 | 1.25 | 1.28 | 0.11 | 1.31 | 1.37 | 1.05 | 1.26 | 0.80 | 0.64 | 1.37 | 0.05 | 4.2% |
| SC-210.02 | 10 min | 4363 | 1.74 | 1.77 | 0.14 | 1.78 | 1.85 | 1.51 | 1.72 | 1.13 | 0.92 | 1.85 | 0.07 | 4.2% |
| SC-211.01 | 20 min | 4371 | 0.46 | 0.46 | 0.04 | 0.46 | 0.29 | 0.42 | 0.46 | 0.36 | 0.34 | 0.46 | 0.00 | -0.1% |
| SC-211.02 | 25 min | 4462 | 0.99 | 0.99 | 0.07 | 1.00 | 0.53 | 0.80 | 0.94 | 0.78 | 0.79 | 0.94 | -0.06 | -6.0% |
| SC-211.03 | 25 min | 4462 | 1.58 | 1.59 | 0.16 | 1.60 | 1.03 | 1.42 | 1.54 | 1.29 | 1.31 | 1.54 | -0.06 | -3.9% |
| SC-211.04 | 20 min | 4399 | 1.88 | 1.86 | 0.15 | 1.86 | 1.40 | 1.81 | 1.75 | 1.53 | 1.57 | 1.81 | -0.05 | -2.5% |
| SC-212.01 | 1 hour | 4405 | 0.17 | 0.17 | 0.01 | 0.17 | 0.08 | 0.11 | 0.13 | 0.17 | 0.17 | 0.17 | 0.00 | -1.9% |
| SC-212.02 | 20 min | 4433 | 0.35 | 0.35 | 0.04 | 0.35 | 0.23 | 0.33 | 0.34 | 0.30 | 0.30 | 0.34 | -0.01 | -1.7% |
| SC-213.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.54 | 0.57 | 0.42 | 0.53 | 0.33 | 0.25 | 0.57 | 0.03 | 4.9% |
| SC-213.02 | 10 min | 4363 | 0.86 | 0.88 | 0.07 | 0.89 | 0.93 | 0.73 | 0.86 | 0.55 | 0.44 | 0.93 | 0.04 | 4.4% |
| SC-214.01 | 10 min | 4363 | 0.64 | 0.65 | 0.05 | 0.67 | 0.70 | 0.53 | 0.65 | 0.41 | 0.32 | 0.70 | 0.03 | 3.8% |
| SC-214.02 | 10 min | 4363 | 1.38 | 1.40 | 0.12 | 1.45 | 1.51 | 1.14 | 1.40 | 0.88 | 0.69 | 1.51 | 0.06 | 3.9% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-215.01 | 10 min | 4363 | 0.51 | 0.52 | 0.04 | 0.53 | 0.55 | 0.44 | 0.51 | 0.33 | 0.27 | 0.55 | 0.02 | 4.0% |
| SC-215.02 | 10 min | 4365 | 0.93 | 0.94 | 0.07 | 0.95 | 0.98 | 0.82 | 0.91 | 0.61 | 0.50 | 0.98 | 0.03 | 2.8% |
| SC-216.01 | 10 min | 4366 | 0.48 | 0.48 | 0.04 | 0.50 | 0.53 | 0.37 | 0.49 | 0.31 | 0.23 | 0.53 | 0.03 | 5.6% |
| SC-216.02 | 10 min | 4363 | 1.46 | 1.48 | 0.12 | 1.53 | 1.59 | 1.18 | 1.48 | 0.95 | 0.72 | 1.59 | 0.06 | 4.1% |
| SC-216.03 | 10 min | 4363 | 2.30 | 2.35 | 0.20 | 2.38 | 2.47 | 1.93 | 2.30 | 1.51 | 1.19 | 2.47 | 0.09 | 3.9% |
| SC-216.04 | 10 min | 4366 | 3.21 | 3.16 | 0.17 | 3.22 | 3.44 | 2.90 | 3.12 | 2.05 | 1.76 | 3.44 | 0.22 | 6.7% |
| SC-217.01 | 10 min | 4366 | 0.34 | 0.34 | 0.03 | 0.36 | 0.38 | 0.26 | 0.35 | 0.22 | 0.16 | 0.38 | 0.02 | 4.2% |
| SC-218.01 | 10 min | 4366 | 0.26 | 0.26 | 0.02 | 0.27 | 0.29 | 0.20 | 0.27 | 0.17 | 0.12 | 0.29 | 0.02 | 6.0% |
| SC-219.01 | 10 min | 4366 | 0.34 | 0.35 | 0.03 | 0.36 | 0.38 | 0.27 | 0.35 | 0.22 | 0.17 | 0.38 | 0.02 | 4.3% |
| SC-22.01 | 10 min | 4363 | 0.38 | 0.38 | 0.03 | 0.39 | 0.41 | 0.31 | 0.38 | 0.24 | 0.19 | 0.41 | 0.02 | 5.0% |
| SC-220.01 | 10 min | 4363 | 0.53 | 0.54 | 0.04 | 0.55 | 0.58 | 0.44 | 0.53 | 0.34 | 0.26 | 0.58 | 0.03 | 4.6% |
| SC-221.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.53 | 0.41 | 0.49 | 0.31 | 0.24 | 0.53 | 0.02 | 4.0% |
| SC-221.02 | 10 min | 4361 | 1.05 | 1.07 | 0.07 | 1.07 | 1.09 | 0.93 | 1.02 | 0.68 | 0.56 | 1.09 | 0.02 | 2.0% |
| SC-221.03 | 10 min | 4365 | 1.29 | 1.31 | 0.09 | 1.32 | 1.36 | 1.15 | 1.26 | 0.84 | 0.70 | 1.36 | 0.04 | 2.7% |
| SC-221.04 | 10 min | 4365 | 1.89 | 1.92 | 0.15 | 1.93 | 1.98 | 1.67 | 1.84 | 1.23 | 1.02 | 1.98 | 0.05 | 2.7% |
| SC-221.05 | 10 min | 4361 | 2.44 | 2.46 | 0.16 | 2.47 | 2.50 | 2.21 | 2.29 | 1.57 | 1.34 | 2.50 | 0.03 | 1.4% |
| SC-221.06 | 10 min | 4365 | 2.57 | 2.59 | 0.15 | 2.60 | 2.64 | 2.33 | 2.42 | 1.66 | 1.44 | 2.64 | 0.04 | 1.6% |
| SC-222.01 | 10 min | 4363 | 0.53 | 0.54 | 0.05 | 0.55 | 0.57 | 0.44 | 0.53 | 0.34 | 0.27 | 0.57 | 0.02 | 4.5% |
| SC-222.02 | 10 min | 4368 | 0.84 | 0.86 | 0.06 | 0.86 | 0.89 | 0.74 | 0.83 | 0.54 | 0.45 | 0.89 | 0.03 | 3.4% |
| SC-222.03 | 10 min | 4364 | 1.83 | 1.80 | 0.18 | 1.82 | 1.70 | 1.82 | 1.71 | 1.20 | 1.09 | 1.82 | 0.00 | 0.1% |
| SC-223.01 | 10 min | 4363 | 0.23 | 0.23 | 0.02 | 0.24 | 0.25 | 0.19 | 0.23 | 0.14 | 0.11 | 0.25 | 0.01 | 2.3% |
| SC-224.01 | 20 min | 4433 | 0.62 | 0.59 | 0.08 | 0.59 | 0.49 | 0.67 | 0.54 | 0.43 | 0.39 | 0.67 | 0.08 | 14.4% |
| SC-225.01 | 10 min | 4363 | 0.42 | 0.43 | 0.04 | 0.43 | 0.45 | 0.35 | 0.42 | 0.27 | 0.22 | 0.45 | 0.02 | 5.4% |
| SC-226.01 | 10 min | 4366 | 0.31 | 0.31 | 0.03 | 0.33 | 0.34 | 0.25 | 0.32 | 0.20 | 0.15 | 0.34 | 0.01 | 3.5% |
| SC-226.02 | 10 min | 4361 | 0.73 | 0.73 | 0.05 | 0.74 | 0.75 | 0.63 | 0.70 | 0.47 | 0.38 | 0.75 | 0.01 | 1.3% |
| SC-226.03 | 10 min | 4354 | 1.50 | 1.52 | 0.10 | 1.54 | 1.54 | 1.35 | 1.43 | 0.97 | 0.81 | 1.54 | 0.00 | -0.2% |
| SC-226.04 | 10 min | 4365 | 2.26 | 2.28 | 0.16 | 2.29 | 2.35 | 2.01 | 2.18 | 1.48 | 1.23 | 2.35 | 0.06 | 2.7% |
| SC-226.05 | 10 min | 4361 | 8.91 | 8.99 | 0.61 | 9.01 | 9.23 | 8.08 | 8.51 | 5.76 | 5.05 | 9.23 | 0.22 | 2.4% |
| SC-226.06 | 10 min | 4365 | 9.82 | 9.88 | 0.48 | 9.93 | 10.15 | 9.07 | 9.24 | 6.30 | 5.64 | 10.15 | 0.22 | 2.2% |
| SC-226.07 | 10 min | 4363 | 10.60 | 10.62 | 0.40 | 10.76 | 11.04 | 9.99 | 9.94 | 6.93 | 6.23 | 11.04 | 0.28 | 2.6% |
| SC-226.08 | 10 min | 4363 | 11.07 | 11.08 | 0.41 | 11.30 | 11.57 | 10.44 | 10.36 | 7.27 | 6.55 | 11.57 | 0.27 | 2.4% |
| SC-227.01 | 10 min | 4363 | 0.16 | 0.17 | 0.01 | 0.17 | 0.18 | 0.13 | 0.16 | 0.10 | 0.08 | 0.18 | 0.01 | 4.5% |
| SC-228.01 | 10 min | 4363 | 0.35 | 0.35 | 0.03 | 0.36 | 0.38 | 0.29 | 0.35 | 0.22 | 0.17 | 0.38 | 0.02 | 4.8% |
| SC-229.01 | 10 min | 4363 | 0.24 | 0.25 | 0.02 | 0.25 | 0.26 | 0.20 | 0.24 | 0.15 | 0.12 | 0.26 | 0.01 | 5.4% |
| SC-23.01 | 10 min | 4363 | 0.50 | 0.50 | 0.04 | 0.52 | 0.54 | 0.40 | 0.50 | 0.32 | 0.25 | 0.54 | 0.02 | 3.7% |
| SC-23.02 | 10 min | 4354 | 1.46 | 1.46 | 0.10 | 1.48 | 1.48 | 1.29 | 1.37 | 0.93 | 0.77 | 1.48 | 0.00 | -0.2% |
| SC-23.03 | 10 min | 4354 | 1.81 | 1.82 | 0.12 | 1.85 | 1.85 | 1.63 | 1.71 | 1.16 | 0.97 | 1.85 | 0.00 | -0.2% |
| SC-230.01 | 10 min | 4363 | 0.24 | 0.24 | 0.02 | 0.25 | 0.26 | 0.20 | 0.24 | 0.15 | 0.13 | 0.26 | 0.01 | 3.0% |
| SC-231.01 | 10 min | 4363 | 0.26 | 0.27 | 0.02 | 0.28 | 0.29 | 0.22 | 0.27 | 0.17 | 0.14 | 0.29 | 0.01 | 2.7% |
| SC-232.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.69 | 0.71 | 0.56 | 0.66 | 0.44 | 0.35 | 0.71 | 0.02 | 3.5% |
| SC-232.02 | 10 min | 4365 | 1.05 | 1.07 | 0.08 | 1.08 | 1.11 | 0.91 | 1.03 | 0.68 | 0.56 | 1.11 | 0.03 | 2.4% |
| SC-232.03 | 10 min | 4361 | 2.43 | 2.45 | 0.18 | 2.46 | 2.52 | 2.15 | 2.34 | 1.58 | 1.32 | 2.52 | 0.06 | 2.3% |
| SC-233.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.49 | 0.51 | 0.39 | 0.47 | 0.30 | 0.24 | 0.51 | 0.02 | 4.2% |
| SC-233.02 | 10 min | 4365 | 0.77 | 0.78 | 0.06 | 0.79 | 0.81 | 0.68 | 0.75 | 0.50 | 0.41 | 0.81 | 0.02 | 2.7% |
| SC-234.01 | 10 min | 4363 | 0.67 | 0.69 | 0.06 | 0.70 | 0.73 | 0.57 | 0.68 | 0.43 | 0.35 | 0.73 | 0.03 | 4.9% |
| SC-234.02 | 10 min | 4365 | 1.31 | 1.32 | 0.09 | 1.32 | 1.36 | 1.16 | 1.26 | 0.85 | 0.71 | 1.36 | 0.04 | 3.0% |
| SC-234.03 | 10 min | 4361 | 3.83 | 3.86 | 0.27 | 3.90 | 3.94 | 3.50 | 3.65 | 2.47 | 2.17 | 3.94 | 0.04 | 1.0% |
| SC-235.01 | 10 min | 4363 | 0.25 | 0.25 | 0.02 | 0.26 | 0.27 | 0.20 | 0.25 | 0.16 | 0.12 | 0.27 | 0.01 | 5.4% |
| SC-236.01 | 10 min | 4363 | 0.32 | 0.32 | 0.03 | 0.33 | 0.35 | 0.26 | 0.32 | 0.20 | 0.16 | 0.35 | 0.02 | 5.2% |
| SC-236.02 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.53 | 0.40 | 0.49 | 0.31 | 0.25 | 0.53 | 0.02 | 3.5% |
| SC-237.01 | 10 min | 4363 | 0.43 | 0.43 | 0.04 | 0.44 | 0.46 | 0.36 | 0.43 | 0.27 | 0.22 | 0.46 | 0.02 | 5.4% |
| SC-237.02 | 10 min | 4354 | 0.90 | 0.88 | 0.06 | 0.89 | 0.89 | 0.91 | 0.89 | 0.59 | 0.57 | 0.91 | 0.02 | 2.1% |
| SC-238.01 | 10 min | 4363 | 0.28 | 0.28 | 0.02 | 0.29 | 0.31 | 0.23 | 0.28 | 0.18 | 0.14 | 0.31 | 0.02 | 5.2% |
| SC-238.02 | 10 min | 4365 | 0.64 | 0.65 | 0.05 | 0.65 | 0.67 | 0.56 | 0.62 | 0.41 | 0.34 | 0.67 | 0.02 | 2.9% |
| SC-239.01 | 10 min | 4363 | 0.36 | 0.37 | 0.03 | 0.37 | 0.39 | 0.30 | 0.36 | 0.23 | 0.18 | 0.39 | 0.02 | 5.2% |
| SC-24.01 | 10 min | 4363 | 0.43 | 0.44 | 0.04 | 0.45 | 0.47 | 0.36 | 0.44 | 0.28 | 0.22 | 0.47 | 0.02 | 4.7% |
| SC-240.01 | 20 min | 4429 | 0.90 | 0.89 | 0.08 | 0.90 | 0.56 | 0.81 | 0.87 | 0.69 | 0.64 | 0.87 | -0.03 | -3.1% |
| SC-240.02 | 20 min | 4371 | 1.33 | 1.29 | 0.13 | 1.30 | 0.98 | 1.26 | 1.30 | 0.99 | 0.95 | 1.30 | -0.01 | -0.4% |
| SC-241.01 | 15 min | 4401 | 3.98 | 3.71 | 0.66 | 3.74 | 3.33 | 4.40 | 3.44 | 2.65 | 2.49 | 4.40 | 0.66 | 17.5% |
| SC-242.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.52 | 0.54 | 0.42 | 0.50 | 0.33 | 0.26 | 0.54 | 0.02 | 4.2% |
| SC-242.02 | 10 min | 4365 | 1.29 | 1.31 | 0.10 | 1.32 | 1.36 | 1.12 | 1.26 | 0.85 | 0.70 | 1.36 | 0.04 | 2.7% |
| SC-242.03 | 10 min | 4365 | 1.92 | 1.94 | 0.15 | 1.95 | 2.00 | 1.67 | 1.86 | 1.26 | 1.05 | 2.00 | 0.05 | 2.8% |
| SC-242.04 | 10 min | 4365 | 2.03 | 2.06 | 0.16 | 2.07 | 2.13 | 1.77 | 1.97 | 1.34 | 1.11 | 2.13 | 0.06 | 2.9% |
| SC-242.05 | 10 min | 4354 | 4.50 | 4.51 | 0.29 | 4.56 | 4.56 | 4.04 | 4.17 | 2.89 | 2.46 | 4.56 | 0.00 | 0.0% |
| SC-242.06 | 10 min | 4354 | 5.90 | 5.75 | 0.35 | 5.81 | 5.81 | 5.49 | 5.31 | 3.70 | 3.30 | 5.81 | 0.00 | 0.1% |
| SC-242.07 | 10 min | 4354 | 6.31 | 6.12 | 0.39 | 6.13 | 6.13 | 5.95 | 5.54 | 3.94 | 3.61 | 6.13 | 0.00 | -0.1% |
| SC-242.08 | 15 min | 4401 | 11.63 | 11.18 | 1.54 | 11.33 | 11.06 | 12.24 | 9.53 | 7.69 | 7.22 | 12.24 | 0.90 | 8.0% |
| SC-243.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.49 | 0.51 | 0.38 | 0.47 | 0.30 | 0.23 | 0.51 | 0.02 | 4.8% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-243.02 | 10 min | 4363 | 1.73 | 1.77 | 0.14 | 1.77 | 1.85 | 1.49 | 1.71 | 1.12 | 0.90 | 1.85 | 0.08 | 4.4% |
| SC-244.01 | 10 min | 4363 | 0.66 | 0.67 | 0.06 | 0.70 | 0.73 | 0.54 | 0.67 | 0.42 | 0.33 | 0.73 | 0.03 | 3.7% |
| SC-245.01 | 10 min | 4363 | 0.35 | 0.35 | 0.03 | 0.37 | 0.38 | 0.29 | 0.35 | 0.22 | 0.17 | 0.38 | 0.01 | 3.0% |
| SC-246.01 | 10 min | 4363 | 0.23 | 0.24 | 0.02 | 0.24 | 0.25 | 0.20 | 0.23 | 0.15 | 0.12 | 0.25 | 0.01 | 5.5% |
| SC-246.02 | 10 min | 4364 | 0.61 | 0.60 | 0.06 | 0.61 | 0.56 | 0.60 | 0.56 | 0.39 | 0.35 | 0.60 | -0.02 | -2.5% |
| SC-247.01 | 10 min | 4365 | 0.64 | 0.64 | 0.04 | 0.64 | 0.66 | 0.57 | 0.62 | 0.39 | 0.34 | 0.66 | 0.02 | 3.5% |
| SC-247.02 | 15 min | 4401 | 1.51 | 1.39 | 0.30 | 1.41 | 1.33 | 1.61 | 1.39 | 0.97 | 0.93 | 1.61 | 0.20 | 14.5% |
| SC-248.01 | 15 min | 4401 | 0.75 | 0.68 | 0.14 | 0.70 | 0.67 | 0.81 | 0.65 | 0.48 | 0.45 | 0.81 | 0.11 | 15.6% |
| SC-249.01 | 20 min | 4433 | 0.18 | 0.18 | 0.01 | 0.18 | 0.11 | 0.16 | 0.17 | 0.14 | 0.13 | 0.17 | -0.01 | -6.5% |
| SC-249.02 | 20 min | 4371 | 0.55 | 0.54 | 0.07 | 0.55 | 0.48 | 0.55 | 0.55 | 0.38 | 0.36 | 0.55 | 0.00 | -0.1% |
| SC-249.03 | 10 min | 4354 | 1.13 | 1.10 | 0.08 | 1.11 | 1.11 | 1.12 | 1.09 | 0.74 | 0.72 | 1.12 | 0.01 | 0.5% |
| SC-249.04 | 10 min | 4354 | 2.83 | 2.81 | 0.18 | 2.85 | 2.85 | 2.66 | 2.65 | 1.83 | 1.69 | 2.85 | 0.00 | 0.1% |
| SC-249.05 | 10 min | 4354 | 8.33 | 8.14 | 0.53 | 8.23 | 8.23 | 7.92 | 7.48 | 5.26 | 4.86 | 8.23 | -0.01 | -0.1% |
| SC-249.06 | 15 min | 4401 | 13.45 | 12.73 | 1.71 | 12.89 | 12.47 | 14.34 | 11.51 | 9.03 | 8.77 | 14.34 | 1.45 | 11.3% |
| SC-25.01 | 10 min | 4363 | 1.31 | 1.33 | 0.11 | 1.38 | 1.43 | 1.08 | 1.33 | 0.84 | 0.65 | 1.43 | 0.05 | 3.9% |
| SC-25.02 | 10 min | 4368 | 1.87 | 1.91 | 0.14 | 1.91 | 1.98 | 1.62 | 1.84 | 1.20 | 0.97 | 1.98 | 0.07 | 3.8% |
| SC-25.03 | 10 min | 4363 | 2.04 | 2.07 | 0.16 | 2.09 | 2.18 | 1.78 | 2.02 | 1.32 | 1.08 | 2.18 | 0.09 | 4.3% |
| SC-25.04 | 10 min | 4365 | 3.40 | 3.45 | 0.26 | 3.47 | 3.58 | 3.04 | 3.31 | 2.19 | 1.85 | 3.58 | 0.11 | 3.0% |
| SC-250.01 | 10 min | 4363 | 0.15 | 0.15 | 0.01 | 0.16 | 0.16 | 0.12 | 0.15 | 0.10 | 0.08 | 0.16 | 0.00 | 1.1% |
| SC-251.01 | 10 min | 4363 | 0.36 | 0.37 | 0.03 | 0.37 | 0.39 | 0.31 | 0.36 | 0.24 | 0.19 | 0.39 | 0.02 | 5.7% |
| SC-252.01 | 10 min | 4363 | 0.42 | 0.43 | 0.03 | 0.43 | 0.45 | 0.38 | 0.41 | 0.26 | 0.24 | 0.45 | 0.02 | 3.9% |
| SC-252.02 | 10 min | 4363 | 0.78 | 0.80 | 0.06 | 0.81 | 0.85 | 0.69 | 0.78 | 0.49 | 0.43 | 0.85 | 0.04 | 4.4% |
| SC-253.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.65 | 0.68 | 0.52 | 0.63 | 0.40 | 0.32 | 0.68 | 0.03 | 4.3% |
| SC-253.02 | 10 min | 4363 | 2.26 | 2.30 | 0.18 | 2.30 | 2.40 | 1.97 | 2.23 | 1.47 | 1.21 | 2.40 | 0.10 | 4.3% |
| SC-253.03 | 10 min | 4363 | 2.74 | 2.80 | 0.23 | 2.81 | 2.92 | 2.36 | 2.71 | 1.80 | 1.48 | 2.92 | 0.11 | 4.0% |
| SC-254.01 | 10 min | 4363 | 0.63 | 0.64 | 0.05 | 0.65 | 0.68 | 0.53 | 0.63 | 0.40 | 0.33 | 0.68 | 0.03 | 4.4% |
| SC-255.01 | 10 min | 4368 | 0.59 | 0.60 | 0.04 | 0.60 | 0.62 | 0.54 | 0.58 | 0.36 | 0.34 | 0.62 | 0.02 | 3.7% |
| SC-256.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.53 | 0.56 | 0.46 | 0.52 | 0.32 | 0.28 | 0.56 | 0.03 | 4.8% |
| SC-257.01 | 10 min | 4363 | 0.29 | 0.30 | 0.02 | 0.30 | 0.31 | 0.25 | 0.29 | 0.18 | 0.15 | 0.31 | 0.01 | 4.7% |
| SC-258.01 | 10 min | 4365 | 1.34 | 1.36 | 0.09 | 1.37 | 1.41 | 1.17 | 1.31 | 0.82 | 0.70 | 1.41 | 0.04 | 2.6% |
| SC-258.02 | 15 min | 4401 | 2.13 | 1.95 | 0.39 | 1.97 | 1.84 | 2.23 | 1.98 | 1.37 | 1.30 | 2.23 | 0.26 | 13.2% |
| SC-259.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.60 | 0.63 | 0.47 | 0.58 | 0.38 | 0.30 | 0.63 | 0.03 | 4.6% |
| SC-259.02 | 10 min | 4365 | 1.21 | 1.23 | 0.09 | 1.23 | 1.27 | 1.04 | 1.18 | 0.80 | 0.65 | 1.27 | 0.04 | 3.1% |
| SC-259.03 | 10 min | 4365 | 1.71 | 1.74 | 0.14 | 1.75 | 1.80 | 1.48 | 1.67 | 1.12 | 0.92 | 1.80 | 0.05 | 2.7% |
| SC-259.04 | 10 min | 4365 | 3.11 | 3.16 | 0.25 | 3.18 | 3.28 | 2.67 | 3.04 | 2.05 | 1.68 | 3.28 | 0.09 | 3.0% |
| SC-259.05 | 10 min | 4365 | 3.80 | 3.85 | 0.29 | 3.85 | 3.97 | 3.30 | 3.67 | 2.50 | 2.07 | 3.97 | 0.12 | 3.0% |
| SC-259.06 | 10 min | 4365 | 4.90 | 4.96 | 0.37 | 4.99 | 5.13 | 4.24 | 4.74 | 3.22 | 2.68 | 5.13 | 0.14 | 2.8% |
| SC-259.07 | 10 min | 4356 | 6.33 | 6.25 | 0.28 | 6.27 | 6.66 | 5.84 | 5.95 | 3.99 | 3.60 | 6.66 | 0.39 | 6.3% |
| SC-259.08 | 10 min | 4356 | 7.47 | 7.45 | 0.25 | 7.47 | 7.74 | 7.00 | 6.82 | 4.64 | 4.21 | 7.74 | 0.27 | 3.6% |
| SC-259.09 | 10 min | 4356 | 18.84 | 18.76 | 0.38 | 18.80 | 19.28 | 19.13 | 16.64 | 12.82 | 12.02 | 19.28 | 0.48 | 2.6% |
| SC-259.10 | 10 min | 4356 | 19.16 | 19.11 | 0.36 | 19.14 | 19.57 | 19.45 | 16.92 | 13.16 | 12.28 | 19.57 | 0.43 | 2.2% |
| SC-26.01 | 10 min | 4363 | 0.40 | 0.41 | 0.03 | 0.42 | 0.44 | 0.34 | 0.41 | 0.26 | 0.20 | 0.44 | 0.02 | 4.0% |
| SC-260.01 | 10 min | 4363 | 0.38 | 0.39 | 0.03 | 0.40 | 0.42 | 0.32 | 0.38 | 0.24 | 0.19 | 0.42 | 0.02 | 4.0% |
| SC-261.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.53 | 0.41 | 0.49 | 0.32 | 0.26 | 0.53 | 0.02 | 4.0% |
| SC-262.01 | 10 min | 4363 | 0.55 | 0.56 | 0.05 | 0.58 | 0.61 | 0.46 | 0.56 | 0.35 | 0.28 | 0.61 | 0.03 | 4.4% |
| SC-262.02 | 10 min | 4363 | 1.01 | 1.03 | 0.08 | 1.04 | 1.08 | 0.87 | 1.01 | 0.66 | 0.53 | 1.08 | 0.04 | 4.1% |
| SC-263.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.61 | 0.64 | 0.50 | 0.59 | 0.37 | 0.30 | 0.64 | 0.03 | 4.5% |
| SC-264.01 | 10 min | 4363 | 0.33 | 0.33 | 0.03 | 0.34 | 0.35 | 0.27 | 0.33 | 0.21 | 0.16 | 0.35 | 0.01 | 4.4% |
| SC-265.01 | 10 min | 4363 | 0.43 | 0.43 | 0.04 | 0.44 | 0.46 | 0.37 | 0.43 | 0.27 | 0.22 | 0.46 | 0.02 | 4.9% |
| SC-265.02 | 20 min | 4371 | 1.07 | 1.04 | 0.16 | 1.06 | 0.99 | 1.08 | 1.06 | 0.71 | 0.68 | 1.08 | 0.02 | 2.0% |
| SC-265.03 | 20 min | 4404 | 1.82 | 1.77 | 0.20 | 1.83 | 1.58 | 1.90 | 1.61 | 1.26 | 1.22 | 1.90 | 0.07 | 4.0% |
| SC-265.04 | 15 min | 4401 | 8.52 | 8.28 | 0.78 | 8.37 | 8.44 | 8.79 | 7.32 | 5.93 | 5.73 | 8.79 | 0.42 | 5.1% |
| SC-266.01 | 10 min | 4365 | 0.54 | 0.55 | 0.04 | 0.55 | 0.57 | 0.52 | 0.52 | 0.34 | 0.33 | 0.57 | 0.02 | 3.0% |
| SC-266.02 | 10 min | 4361 | 1.04 | 1.05 | 0.07 | 1.06 | 1.08 | 0.99 | 1.00 | 0.66 | 0.62 | 1.08 | 0.01 | 1.4% |
| SC-266.03 | 10 min | 4365 | 1.26 | 1.28 | 0.10 | 1.29 | 1.33 | 1.14 | 1.23 | 0.82 | 0.75 | 1.33 | 0.04 | 2.8% |
| SC-266.04 | 10 min | 4354 | 4.79 | 4.76 | 0.31 | 4.83 | 4.83 | 4.65 | 4.58 | 3.12 | 3.00 | 4.83 | 0.00 | -0.1% |
| SC-266.05 | 10 min | 4365 | 5.48 | 5.50 | 0.22 | 5.53 | 5.65 | 5.36 | 5.09 | 3.72 | 3.57 | 5.65 | 0.12 | 2.1% |
| SC-267.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.55 | 0.57 | 0.44 | 0.53 | 0.33 | 0.27 | 0.57 | 0.02 | 3.4% |
| SC-268.01 | 10 min | 4363 | 0.88 | 0.89 | 0.08 | 0.91 | 0.95 | 0.75 | 0.88 | 0.56 | 0.46 | 0.95 | 0.04 | 4.5% |
| SC-268.02 | 10 min | 4365 | 2.28 | 2.31 | 0.16 | 2.31 | 2.38 | 2.13 | 2.21 | 1.45 | 1.35 | 2.38 | 0.07 | 2.9% |
| SC-269.01 | 20 min | 4371 | 0.39 | 0.38 | 0.06 | 0.38 | 0.36 | 0.40 | 0.38 | 0.26 | 0.25 | 0.40 | 0.02 | 4.2% |
| SC-27.01 | 10 min | 4361 | 0.42 | 0.43 | 0.03 | 0.43 | 0.44 | 0.41 | 0.40 | 0.26 | 0.24 | 0.44 | 0.01 | 1.3% |
| SC-270.01 | 20 min | 4429 | 0.43 | 0.41 | 0.06 | 0.41 | 0.35 | 0.46 | 0.40 | 0.29 | 0.27 | 0.46 | 0.05 | 11.0% |
| SC-271.01 | 20 min | 4371 | 0.26 | 0.25 | 0.04 | 0.25 | 0.22 | 0.28 | 0.25 | 0.17 | 0.17 | 0.28 | 0.03 | 12.4% |
| SC-272.01 | 20 min | 4429 | 0.64 | 0.61 | 0.08 | 0.62 | 0.50 | 0.65 | 0.61 | 0.44 | 0.41 | 0.65 | 0.03 | 4.8% |
| SC-272.02 | 20 min | 4371 | 1.31 | 1.25 | 0.20 | 1.27 | 1.10 | 1.36 | 1.27 | 0.87 | 0.83 | 1.36 | 0.09 | 6.8% |
| SC-272.03 | 20 min | 4371 | 2.12 | 2.01 | 0.34 | 2.05 | 1.81 | 2.21 | 2.05 | 1.37 | 1.33 | 2.21 | 0.16 | 7.6% |
| SC-273.01 | 10 min | 4364 | 0.60 | 0.61 | 0.07 | 0.62 | 0.52 | 0.60 | 0.54 | 0.39 | 0.35 | 0.60 | -0.02 | -2.6% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-274.01 | 20 min | 4433 | 0.30 | 0.29 | 0.03 | 0.29 | 0.22 | 0.27 | 0.31 | 0.23 | 0.23 | 0.31 | 0.02 | 6.0% |
| SC-274.02 | 10 min | 4354 | 1.24 | 1.25 | 0.08 | 1.27 | 1.27 | 1.16 | 1.17 | 0.81 | 0.76 | 1.27 | 0.00 | -0.1% |
| SC-274.03 | 10 min | 4365 | 2.98 | 3.02 | 0.22 | 3.04 | 3.13 | 2.67 | 2.90 | 1.92 | 1.68 | 3.13 | 0.09 | 3.0% |
| SC-274.04 | 10 min | 4365 | 3.85 | 3.91 | 0.28 | 3.94 | 4.05 | 3.44 | 3.76 | 2.49 | 2.16 | 4.05 | 0.11 | 2.9% |
| SC-274.05 | 10 min | 4354 | 4.98 | 4.83 | 0.38 | 4.91 | 4.91 | 4.59 | 4.55 | 3.22 | 2.86 | 4.91 | 0.00 | 0.1% |
| SC-275.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.59 | 0.62 | 0.48 | 0.57 | 0.37 | 0.29 | 0.62 | 0.03 | 5.2% |
| SC-276.01 | 10 min | 4363 | 0.42 | 0.42 | 0.04 | 0.44 | 0.45 | 0.34 | 0.42 | 0.27 | 0.21 | 0.45 | 0.01 | 3.3% |
| SC-277.01 | 10 min | 4368 | 0.53 | 0.54 | 0.04 | 0.54 | 0.56 | 0.46 | 0.52 | 0.33 | 0.28 | 0.56 | 0.02 | 3.7% |
| SC-278.01 | 10 min | 4363 | 0.32 | 0.33 | 0.03 | 0.34 | 0.35 | 0.27 | 0.32 | 0.20 | 0.16 | 0.35 | 0.01 | 2.8% |
| SC-278.02 | 15 min | 4392 | 4.00 | 3.65 | 0.79 | 3.66 | 3.56 | 4.31 | 3.62 | 2.51 | 2.46 | 4.31 | 0.65 | 17.9% |
| SC-279.01 | 15 min | 4400 | 0.55 | 0.51 | 0.09 | 0.52 | 0.52 | 0.57 | 0.51 | 0.35 | 0.34 | 0.57 | 0.05 | 9.5% |
| SC-279.02 | 10 min | 4364 | 3.87 | 3.94 | 0.40 | 3.98 | 3.40 | 4.00 | 3.52 | 2.51 | 2.32 | 4.00 | 0.02 | 0.6% |
| SC-28.01 | 20 min | 4399 | 0.36 | 0.36 | 0.04 | 0.36 | 0.24 | 0.36 | 0.32 | 0.26 | 0.24 | 0.36 | 0.00 | 0.1% |
| SC-28.02 | 20 min | 4371 | 0.83 | 0.80 | 0.11 | 0.80 | 0.70 | 0.85 | 0.80 | 0.57 | 0.54 | 0.85 | 0.05 | 6.1% |
| SC-28.03 | 20 min | 4371 | 1.16 | 1.12 | 0.17 | 1.13 | 1.07 | 1.18 | 1.13 | 0.78 | 0.74 | 1.18 | 0.05 | 4.4% |
| SC-28.04 | 10 min | 4354 | 2.47 | 2.42 | 0.17 | 2.45 | 2.45 | 2.38 | 2.30 | 1.57 | 1.47 | 2.45 | 0.00 | 0.0% |
| SC-280.01 | 10 min | 4361 | 0.53 | 0.53 | 0.03 | 0.53 | 0.54 | 0.50 | 0.51 | 0.32 | 0.30 | 0.54 | 0.01 | 2.7% |
| SC-29.01 | 10 min | 4363 | 0.40 | 0.41 | 0.03 | 0.42 | 0.44 | 0.33 | 0.41 | 0.26 | 0.20 | 0.44 | 0.02 | 4.0% |
| SC-29.02 | 10 min | 4365 | 1.10 | 1.12 | 0.08 | 1.12 | 1.15 | 0.97 | 1.07 | 0.71 | 0.59 | 1.15 | 0.03 | 2.9% |
| SC-3.01 | 15 min | 4393 | 0.47 | 0.45 | 0.08 | 0.46 | 0.47 | 0.49 | 0.45 | 0.30 | 0.29 | 0.49 | 0.03 | 5.9% |
| SC-3.02 | 20 min | 4371 | 1.57 | 1.50 | 0.23 | 1.51 | 1.44 | 1.62 | 1.51 | 1.04 | 0.99 | 1.62 | 0.11 | 7.1% |
| SC-30.01 | 10 min | 4363 | 0.71 | 0.72 | 0.06 | 0.75 | 0.78 | 0.59 | 0.72 | 0.45 | 0.36 | 0.78 | 0.03 | 4.0% |
| SC-30.02 | 10 min | 4361 | 1.30 | 1.31 | 0.09 | 1.31 | 1.34 | 1.14 | 1.25 | 0.83 | 0.68 | 1.34 | 0.03 | 2.6% |
| SC-30.03 | 10 min | 4365 | 1.79 | 1.81 | 0.12 | 1.81 | 1.86 | 1.60 | 1.73 | 1.16 | 0.96 | 1.86 | 0.05 | 2.9% |
| SC-30.04 | 10 min | 4365 | 2.28 | 2.30 | 0.17 | 2.32 | 2.38 | 2.03 | 2.21 | 1.48 | 1.23 | 2.38 | 0.06 | 2.8% |
| SC-31.01 | 10 min | 4354 | 0.49 | 0.48 | 0.03 | 0.49 | 0.49 | 0.45 | 0.46 | 0.30 | 0.27 | 0.49 | 0.00 | 0.2% |
| SC-31.02 | 10 min | 4354 | 1.01 | 0.98 | 0.07 | 0.99 | 0.99 | 0.95 | 0.92 | 0.64 | 0.57 | 0.99 | 0.00 | -0.1% |
| SC-32.01 | 20 min | 4433 | 0.43 | 0.40 | 0.06 | 0.40 | 0.37 | 0.48 | 0.39 | 0.29 | 0.27 | 0.48 | 0.08 | 19.2% |
| SC-32.02 | 20 min | 4428 | 0.62 | 0.59 | 0.08 | 0.59 | 0.49 | 0.67 | 0.54 | 0.43 | 0.40 | 0.67 | 0.08 | 13.4% |
| SC-33.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.63 | 0.65 | 0.50 | 0.61 | 0.38 | 0.30 | 0.65 | 0.02 | 3.9% |
| SC-33.02 | 10 min | 4368 | 1.37 | 1.40 | 0.11 | 1.40 | 1.46 | 1.21 | 1.35 | 0.89 | 0.73 | 1.46 | 0.06 | 4.0% |
| SC-34.01 | 10 min | 4361 | 0.48 | 0.48 | 0.03 | 0.48 | 0.49 | 0.41 | 0.45 | 0.29 | 0.25 | 0.49 | 0.01 | 1.9% |
| SC-34.02 | 10 min | 4354 | 0.97 | 0.97 | 0.06 | 0.98 | 0.98 | 0.87 | 0.91 | 0.60 | 0.52 | 0.98 | 0.00 | 0.0% |
| SC-34.03 | 10 min | 4363 | 1.12 | 1.13 | 0.08 | 1.15 | 1.20 | 1.04 | 1.11 | 0.71 | 0.62 | 1.20 | 0.05 | 3.9% |
| SC-35.01 | 10 min | 4366 | 0.43 | 0.43 | 0.04 | 0.45 | 0.48 | 0.34 | 0.44 | 0.28 | 0.21 | 0.48 | 0.03 | 5.7% |
| SC-35.02 | 10 min | 4363 | 1.19 | 1.22 | 0.10 | 1.23 | 1.28 | 0.99 | 1.19 | 0.79 | 0.60 | 1.28 | 0.05 | 4.1% |
| SC-35.03 | 10 min | 4363 | 1.91 | 1.95 | 0.16 | 1.96 | 2.03 | 1.57 | 1.90 | 1.27 | 0.96 | 2.03 | 0.07 | 3.8% |
| SC-35.04 | 10 min | 4363 | 2.04 | 2.08 | 0.17 | 2.10 | 2.19 | 1.68 | 2.04 | 1.36 | 1.03 | 2.19 | 0.09 | 4.1% |
| SC-36.01 | 10 min | 4363 | 0.91 | 0.93 | 0.08 | 0.95 | 0.99 | 0.77 | 0.92 | 0.58 | 0.47 | 0.99 | 0.04 | 4.4% |
| SC-36.02 | 10 min | 4363 | 1.64 | 1.67 | 0.14 | 1.72 | 1.79 | 1.39 | 1.66 | 1.04 | 0.84 | 1.79 | 0.07 | 4.0% |
| SC-37.01 | 10 min | 4363 | 0.35 | 0.36 | 0.03 | 0.37 | 0.38 | 0.30 | 0.35 | 0.22 | 0.18 | 0.38 | 0.01 | 3.3% |
| SC-37.02 | 10 min | 4368 | 0.99 | 1.01 | 0.07 | 1.01 | 1.05 | 0.86 | 0.97 | 0.63 | 0.51 | 1.05 | 0.04 | 3.7% |
| SC-38.01 | 10 min | 4363 | 0.41 | 0.42 | 0.03 | 0.43 | 0.44 | 0.35 | 0.41 | 0.26 | 0.21 | 0.44 | 0.01 | 3.2% |
| SC-39.01 | 10 min | 4363 | 0.24 | 0.24 | 0.02 | 0.25 | 0.26 | 0.20 | 0.24 | 0.15 | 0.12 | 0.26 | 0.01 | 3.4% |
| SC-4.01 | 20 min | 4433 | 0.55 | 0.52 | 0.08 | 0.53 | 0.43 | 0.58 | 0.51 | 0.38 | 0.35 | 0.58 | 0.05 | 9.2% |
| SC-40.01 | 10 min | 4363 | 0.55 | 0.56 | 0.05 | 0.58 | 0.61 | 0.44 | 0.56 | 0.36 | 0.27 | 0.61 | 0.03 | 4.7% |
| SC-41.01 | 10 min | 4366 | 0.36 | 0.36 | 0.03 | 0.38 | 0.40 | 0.28 | 0.37 | 0.23 | 0.17 | 0.40 | 0.02 | 5.3% |
| SC-42.01 | 10 min | 4363 | 1.23 | 1.25 | 0.11 | 1.30 | 1.35 | 0.98 | 1.25 | 0.79 | 0.60 | 1.35 | 0.05 | 4.0% |
| SC-43.01 | 10 min | 4366 | 0.27 | 0.27 | 0.02 | 0.28 | 0.30 | 0.20 | 0.28 | 0.17 | 0.13 | 0.30 | 0.02 | 6.1% |
| SC-44.01 | 10 min | 4363 | 0.85 | 0.86 | 0.07 | 0.89 | 0.93 | 0.71 | 0.86 | 0.54 | 0.43 | 0.93 | 0.04 | 4.5% |
| SC-44.02 | 10 min | 4365 | 1.36 | 1.39 | 0.10 | 1.40 | 1.44 | 1.19 | 1.34 | 0.88 | 0.72 | 1.44 | 0.04 | 2.7% |
| SC-44.03 | 10 min | 4365 | 1.86 | 1.89 | 0.14 | 1.90 | 1.96 | 1.65 | 1.81 | 1.20 | 0.99 | 1.96 | 0.06 | 3.0% |
| SC-44.04 | 10 min | 4361 | 2.83 | 2.86 | 0.21 | 2.87 | 2.93 | 2.55 | 2.72 | 1.81 | 1.55 | 2.93 | 0.06 | 2.1% |
| SC-44.05 | 10 min | 4365 | 4.95 | 5.00 | 0.30 | 5.01 | 5.13 | 4.53 | 4.71 | 3.15 | 2.76 | 5.13 | 0.12 | 2.4% |
| SC-44.06 | 10 min | 4365 | 5.26 | 5.31 | 0.27 | 5.33 | 5.44 | 4.89 | 4.95 | 3.36 | 3.00 | 5.44 | 0.11 | 2.1% |
| SC-44.07 | 10 min | 4356 | 5.71 | 5.61 | 0.22 | 5.61 | 5.54 | 5.85 | 4.59 | 3.45 | 3.04 | 5.85 | 0.23 | 4.2% |
| SC-44.08 | 15 min | 4392 | 7.21 | 7.00 | 0.79 | 7.07 | 7.06 | 7.55 | 5.71 | 4.37 | 3.82 | 7.55 | 0.48 | 6.8% |
| SC-44.09 | 15 min | 4392 | 7.76 | 7.64 | 0.68 | 7.67 | 7.44 | 8.03 | 6.00 | 4.74 | 4.24 | 8.03 | 0.36 | 4.7% |
| SC-44.10 | 20 min | 4787 | 0.99 | 0.79 | 0.29 | 0.79 | 0.65 | 0.67 | 0.68 | 0.73 | 0.74 | 0.74 | -0.05 | -6.3% |
| SC-44.11 | 20 min | 4528 | 9.96 | 10.09 | 1.28 | 10.46 | 1.37 | 2.79 | 5.94 | 9.17 | 9.98 | 9.98 | -0.48 | -4.6% |
| SC-44.12 | 20 min | 4654 | 0.55 | 0.54 | 0.04 | 0.54 | 0.00 | 0.00 | 0.00 | 0.12 | 0.51 | 0.51 | -0.03 | -5.7% |
| SC-44.13 | 20 min | 4654 | 0.45 | 0.44 | 0.02 | 0.44 | 0.09 | 0.16 | 0.20 | 0.25 | 0.46 | 0.46 | 0.02 | 3.8% |
| SC-44.14 | 20 min | 4758 | 1.34 | 1.36 | 0.06 | 1.37 | 0.23 | 0.53 | 0.78 | 1.42 | 1.48 | 1.48 | 0.11 | 8.1% |
| SC-44.15 | 20 min | 4865 | 2.38 | 2.38 | 0.05 | 2.40 | 2.18 | 2.24 | 2.24 | 2.45 | 2.46 | 2.46 | 0.06 | 2.3% |
| SC-44.16 | 20 min | 4865 | 2.43 | 2.42 | 0.05 | 2.44 | 2.24 | 2.32 | 2.32 | 2.49 | 2.50 | 2.50 | 0.06 | 2.6% |
| SC-44.17 | 20 min | 4429 | 7.52 | 7.30 | 0.56 | 7.43 | 7.00 | 7.83 | 6.93 | 5.70 | 5.79 | 7.83 | 0.40 | 5.3% |
| SC-44.18 | 20 min | 4429 | 7.80 | 7.68 | 0.52 | 7.71 | 7.12 | 7.96 | 7.08 | 5.95 | 6.17 | 7.96 | 0.25 | 3.2% |
| SC-44.19 | 25 min | 4462 | 8.69 | 8.70 | 0.59 | 8.73 | 8.14 | 8.88 | 7.35 | 6.60 | 6.94 | 8.88 | 0.15 | 1.7% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-44.20 | 25 min | 4466 | 8.45 | 8.48 | 0.38 | 8.56 | 7.40 | 8.39 | 7.41 | 6.75 | 7.09 | 8.39 | -0.17 | -2.0% |
| SC-45.01 | 10 min | 4368 | 0.63 | 0.64 | 0.05 | 0.64 | 0.66 | 0.57 | 0.62 | 0.39 | 0.34 | 0.66 | 0.02 | 3.9% |
| SC-46.01 | 10 min | 4363 | 0.51 | 0.52 | 0.04 | 0.54 | 0.56 | 0.43 | 0.52 | 0.33 | 0.26 | 0.56 | 0.02 | 3.2% |
| SC-46.02 | 10 min | 4361 | 0.88 | 0.89 | 0.06 | 0.89 | 0.91 | 0.79 | 0.85 | 0.56 | 0.47 | 0.91 | 0.02 | 2.5% |
| SC-46.03 | 10 min | 4365 | 1.32 | 1.33 | 0.09 | 1.33 | 1.37 | 1.18 | 1.27 | 0.85 | 0.71 | 1.37 | 0.04 | 3.2% |
| SC-46.04 | 10 min | 4365 | 1.49 | 1.51 | 0.11 | 1.51 | 1.56 | 1.33 | 1.44 | 0.97 | 0.81 | 1.56 | 0.05 | 3.1% |
| SC-47.01 | 10 min | 4363 | 0.83 | 0.85 | 0.07 | 0.87 | 0.91 | 0.70 | 0.84 | 0.53 | 0.43 | 0.91 | 0.04 | 4.2% |
| SC-48.01 | 10 min | 4363 | 0.63 | 0.64 | 0.05 | 0.66 | 0.69 | 0.53 | 0.64 | 0.40 | 0.32 | 0.69 | 0.03 | 4.0% |
| SC-48.02 | 10 min | 4361 | 1.00 | 1.01 | 0.07 | 1.01 | 1.04 | 0.88 | 0.96 | 0.64 | 0.53 | 1.04 | 0.03 | 2.9% |
| SC-49.01 | 10 min | 4363 | 0.71 | 0.72 | 0.06 | 0.74 | 0.77 | 0.58 | 0.72 | 0.45 | 0.35 | 0.77 | 0.03 | 4.3% |
| SC-5.01 | 10 min | 4365 | 0.44 | 0.45 | 0.03 | 0.45 | 0.46 | 0.40 | 0.43 | 0.27 | 0.24 | 0.46 | 0.01 | 3.2% |
| SC-50.01 | 10 min | 4357 | 0.25 | 0.24 | 0.02 | 0.24 | 0.24 | 0.23 | 0.23 | 0.16 | 0.14 | 0.24 | 0.00 | 1.1% |
| SC-51.01 | 10 min | 4368 | 0.25 | 0.25 | 0.02 | 0.25 | 0.26 | 0.21 | 0.25 | 0.16 | 0.13 | 0.26 | 0.01 | 5.8% |
| SC-52.01 | 10 min | 4363 | 0.25 | 0.26 | 0.02 | 0.26 | 0.27 | 0.20 | 0.25 | 0.16 | 0.12 | 0.27 | 0.01 | 3.8% |
| SC-53.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.64 | 0.66 | 0.51 | 0.61 | 0.39 | 0.31 | 0.66 | 0.02 | 3.5% |
| SC-53.02 | 10 min | 4354 | 1.25 | 1.26 | 0.09 | 1.28 | 1.28 | 1.12 | 1.19 | 0.79 | 0.67 | 1.28 | 0.00 | -0.3% |
| SC-53.03 | 10 min | 4365 | 1.50 | 1.52 | 0.11 | 1.53 | 1.58 | 1.35 | 1.46 | 0.98 | 0.82 | 1.58 | 0.05 | 3.1% |
| SC-54.01 | 10 min | 4363 | 0.50 | 0.50 | 0.04 | 0.52 | 0.54 | 0.41 | 0.50 | 0.31 | 0.25 | 0.54 | 0.02 | 3.6% |
| SC-54.02 | 10 min | 4354 | 0.96 | 0.95 | 0.07 | 0.97 | 0.97 | 0.85 | 0.90 | 0.60 | 0.51 | 0.97 | 0.00 | -0.3% |
| SC-55.01 | 10 min | 4363 | 0.77 | 0.78 | 0.06 | 0.80 | 0.84 | 0.64 | 0.78 | 0.49 | 0.38 | 0.84 | 0.04 | 4.6% |
| SC-56.01 | 10 min | 4354 | 0.37 | 0.37 | 0.02 | 0.37 | 0.37 | 0.32 | 0.35 | 0.23 | 0.19 | 0.37 | 0.00 | 0.6% |
| SC-57.01 | 10 min | 4364 | 0.26 | 0.26 | 0.03 | 0.26 | 0.24 | 0.25 | 0.23 | 0.17 | 0.15 | 0.25 | -0.01 | -2.6% |
| SC-58.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.52 | 0.54 | 0.42 | 0.50 | 0.32 | 0.26 | 0.54 | 0.02 | 4.1% |
| SC-59.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.69 | 0.72 | 0.58 | 0.67 | 0.42 | 0.36 | 0.72 | 0.03 | 4.9% |
| SC-59.02 | 10 min | 4354 | 1.29 | 1.30 | 0.09 | 1.32 | 1.32 | 1.16 | 1.22 | 0.82 | 0.71 | 1.32 | -0.01 | -0.4% |
| SC-59.03 | 10 min | 4354 | 1.87 | 1.88 | 0.13 | 1.91 | 1.91 | 1.68 | 1.77 | 1.19 | 1.02 | 1.91 | 0.00 | -0.1% |
| SC-59.04 | 10 min | 4361 | 2.39 | 2.41 | 0.17 | 2.43 | 2.47 | 2.15 | 2.28 | 1.54 | 1.31 | 2.47 | 0.04 | 1.5% |
| SC-59.05 | 10 min | 4354 | 5.10 | 5.07 | 0.30 | 5.14 | 5.14 | 4.88 | 4.71 | 3.30 | 2.97 | 5.14 | 0.00 | -0.1% |
| SC-59.06 | 10 min | 4354 | 5.90 | 5.80 | 0.30 | 5.86 | 5.86 | 5.77 | 5.27 | 3.81 | 3.47 | 5.86 | 0.00 | -0.1% |
| SC-59.07 | 10 min | 4354 | 9.96 | 9.71 | 0.60 | 9.77 | 9.77 | 9.86 | 8.91 | 6.44 | 6.03 | 9.86 | 0.09 | 0.9% |
| SC-59.08 | 20 min | 4429 | 9.78 | 9.47 | 1.08 | 9.60 | 8.57 | 10.16 | 8.38 | 6.71 | 6.56 | 10.16 | 0.56 | 5.8% |
| SC-59.09 | 25 min | 4462 | 11.67 | 11.68 | 1.10 | 11.77 | 9.81 | 12.12 | 9.22 | 8.51 | 8.18 | 12.12 | 0.35 | 3.0% |
| SC-59.10 | 45 min | 4528 | 9.69 | 9.52 | 1.04 | 9.90 | 2.74 | 6.85 | 8.06 | 8.66 | 8.85 | 8.85 | -1.05 | -10.6% |
| SC-6.01 | 10 min | 4366 | 0.57 | 0.58 | 0.05 | 0.60 | 0.63 | 0.46 | 0.58 | 0.37 | 0.28 | 0.63 | 0.03 | 5.0% |
| SC-60.01 | 15 min | 4400 | 0.44 | 0.42 | 0.08 | 0.43 | 0.42 | 0.47 | 0.42 | 0.28 | 0.28 | 0.47 | 0.04 | 8.3% |
| SC-60.02 | 10 min | 4354 | 1.83 | 1.78 | 0.12 | 1.80 | 1.80 | 1.80 | 1.68 | 1.15 | 1.07 | 1.80 | 0.00 | 0.2% |
| SC-61.01 | 10 min | 4354 | 0.96 | 0.95 | 0.06 | 0.96 | 0.96 | 0.92 | 0.89 | 0.60 | 0.55 | 0.96 | 0.00 | 0.3% |
| SC-62.01 | 10 min | 4363 | 0.59 | 0.61 | 0.05 | 0.62 | 0.64 | 0.50 | 0.60 | 0.38 | 0.30 | 0.64 | 0.02 | 3.5% |
| SC-63.01 | 15 min | 4400 | 0.33 | 0.31 | 0.06 | 0.31 | 0.30 | 0.34 | 0.30 | 0.21 | 0.20 | 0.34 | 0.03 | 9.3% |
| SC-64.01 | 10 min | 4363 | 0.44 | 0.45 | 0.04 | 0.46 | 0.48 | 0.37 | 0.45 | 0.28 | 0.23 | 0.48 | 0.02 | 5.1% |
| SC-64.02 | 10 min | 4354 | 1.51 | 1.50 | 0.10 | 1.52 | 1.52 | 1.39 | 1.41 | 0.96 | 0.84 | 1.52 | 0.00 | 0.1% |
| SC-64.03 | 10 min | 4354 | 2.82 | 2.84 | 0.19 | 2.88 | 2.88 | 2.58 | 2.67 | 1.81 | 1.57 | 2.88 | 0.00 | 0.1% |
| SC-64.04 | 10 min | 4354 | 3.95 | 3.89 | 0.26 | 3.95 | 3.95 | 3.78 | 3.63 | 2.55 | 2.34 | 3.95 | 0.00 | -0.1% |
| SC-65.01 | 10 min | 4363 | 0.34 | 0.35 | 0.03 | 0.36 | 0.37 | 0.29 | 0.35 | 0.22 | 0.18 | 0.37 | 0.01 | 3.8% |
| SC-66.01 | 10 min | 4354 | 0.29 | 0.28 | 0.02 | 0.28 | 0.29 | 0.26 | 0.26 | 0.18 | 0.15 | 0.29 | 0.00 | 1.8% |
| SC-66.02 | 20 min | 4371 | 0.66 | 0.62 | 0.10 | 0.62 | 0.55 | 0.69 | 0.62 | 0.43 | 0.41 | 0.69 | 0.07 | 12.0% |
| SC-67.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.52 | 0.55 | 0.41 | 0.51 | 0.32 | 0.25 | 0.55 | 0.03 | 4.9% |
| SC-68.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.71 | 0.74 | 0.57 | 0.69 | 0.43 | 0.34 | 0.74 | 0.03 | 4.7% |
| SC-68.02 | 10 min | 4361 | 1.31 | 1.32 | 0.09 | 1.33 | 1.35 | 1.15 | 1.25 | 0.83 | 0.69 | 1.35 | 0.02 | 1.2% |
| SC-68.03 | 10 min | 4363 | 2.36 | 2.40 | 0.19 | 2.41 | 2.51 | 2.04 | 2.33 | 1.53 | 1.23 | 2.51 | 0.10 | 4.3% |
| SC-69.01 | 10 min | 4366 | 0.59 | 0.59 | 0.05 | 0.62 | 0.65 | 0.46 | 0.60 | 0.38 | 0.28 | 0.65 | 0.03 | 4.3% |
| SC-7.01 | 10 min | 4363 | 0.76 | 0.78 | 0.06 | 0.78 | 0.81 | 0.70 | 0.75 | 0.47 | 0.43 | 0.81 | 0.03 | 4.3% |
| SC-70.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.56 | 0.59 | 0.44 | 0.54 | 0.34 | 0.27 | 0.59 | 0.03 | 4.6% |
| SC-70.02 | 10 min | 4361 | 0.87 | 0.88 | 0.06 | 0.88 | 0.90 | 0.75 | 0.84 | 0.55 | 0.45 | 0.90 | 0.02 | 2.6% |
| SC-71.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.71 | 0.74 | 0.57 | 0.69 | 0.43 | 0.34 | 0.74 | 0.03 | 4.2% |
| SC-71.02 | 10 min | 4361 | 1.31 | 1.32 | 0.09 | 1.34 | 1.35 | 1.17 | 1.26 | 0.84 | 0.70 | 1.35 | 0.01 | 0.9% |
| SC-72.01 | 10 min | 4363 | 0.73 | 0.74 | 0.06 | 0.77 | 0.80 | 0.61 | 0.74 | 0.47 | 0.37 | 0.80 | 0.03 | 3.9% |
| SC-73.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.62 | 0.64 | 0.51 | 0.60 | 0.38 | 0.31 | 0.64 | 0.02 | 4.0% |
| SC-74.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.72 | 0.75 | 0.57 | 0.69 | 0.44 | 0.34 | 0.75 | 0.03 | 3.7% |
| SC-75.01 | 10 min | 4354 | 0.42 | 0.40 | 0.03 | 0.41 | 0.41 | 0.39 | 0.38 | 0.26 | 0.23 | 0.41 | 0.00 | -0.3% |
| SC-75.02 | 10 min | 4364 | 1.60 | 1.57 | 0.14 | 1.58 | 1.51 | 1.64 | 1.50 | 1.04 | 0.97 | 1.64 | 0.05 | 3.5% |
| SC-75.03 | 10 min | 4354 | 2.37 | 2.32 | 0.14 | 2.35 | 2.35 | 2.35 | 2.18 | 1.48 | 1.39 | 2.35 | 0.00 | 0.1% |
| SC-75.04 | 10 min | 4354 | 4.12 | 4.06 | 0.26 | 4.12 | 4.12 | 3.93 | 3.82 | 2.61 | 2.38 | 4.12 | 0.00 | 0.0% |
| SC-76.01 | 15 min | 4401 | 0.53 | 0.48 | 0.10 | 0.48 | 0.46 | 0.57 | 0.50 | 0.34 | 0.33 | 0.57 | 0.09 | 18.0% |
| SC-77.01 | 10 min | 4363 | 0.80 | 0.82 | 0.07 | 0.84 | 0.88 | 0.67 | 0.81 | 0.51 | 0.40 | 0.88 | 0.04 | 4.5% |
| SC-77.02 | 10 min | 4363 | 1.22 | 1.24 | 0.10 | 1.27 | 1.33 | 1.01 | 1.23 | 0.78 | 0.61 | 1.33 | 0.06 | 4.6% |
| SC-77.03 | 10 min | 4368 | 1.72 | 1.75 | 0.13 | 1.76 | 1.82 | 1.49 | 1.69 | 1.10 | 0.90 | 1.82 | 0.06 | 3.5% |
| SC-78.01 | 10 min | 4363 | 0.76 | 0.77 | 0.06 | 0.80 | 0.83 | 0.63 | 0.77 | 0.48 | 0.38 | 0.83 | 0.03 | 3.8% |

## ARR2019 Results for 2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 90 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4358 | 4371 | 4585 | 4499 | | $m^3/s$ | % |
| SC-79.01 | 10 min | 4363 | 0.82 | 0.84 | 0.07 | 0.85 | 0.88 | 0.70 | 0.82 | 0.54 | 0.45 | 0.88 | 0.03 | 3.4% |
| SC-79.02 | 10 min | 4363 | 1.53 | 1.56 | 0.12 | 1.56 | 1.62 | 1.28 | 1.51 | 1.02 | 0.83 | 1.62 | 0.06 | 4.0% |
| SC-79.03 | 10 min | 4365 | 3.34 | 3.38 | 0.25 | 3.39 | 3.48 | 2.94 | 3.21 | 2.17 | 1.83 | 3.48 | 0.09 | 2.7% |
| SC-8.01 | 10 min | 4368 | 0.65 | 0.66 | 0.05 | 0.66 | 0.68 | 0.59 | 0.63 | 0.40 | 0.36 | 0.68 | 0.02 | 3.7% |
| SC-8.02 | 10 min | 4354 | 1.57 | 1.57 | 0.11 | 1.59 | 1.59 | 1.46 | 1.48 | 0.99 | 0.88 | 1.59 | 0.00 | 0.1% |
| SC-8.03 | 10 min | 4361 | 4.04 | 4.08 | 0.28 | 4.10 | 4.18 | 3.68 | 3.87 | 2.61 | 2.26 | 4.18 | 0.08 | 1.9% |
| SC-8.04 | 10 min | 4365 | 7.12 | 7.21 | 0.53 | 7.25 | 7.46 | 6.41 | 6.91 | 4.62 | 3.96 | 7.46 | 0.21 | 2.9% |
| SC-8.05 | 10 min | 4363 | 7.75 | 7.87 | 0.53 | 7.91 | 8.21 | 7.05 | 7.56 | 5.05 | 4.41 | 8.21 | 0.30 | 3.8% |
| SC-8.06 | 10 min | 4363 | 8.05 | 8.11 | 0.48 | 8.28 | 8.56 | 7.32 | 7.83 | 5.22 | 4.65 | 8.56 | 0.28 | 3.4% |
| SC-80.01 | 10 min | 4363 | 0.79 | 0.81 | 0.07 | 0.83 | 0.87 | 0.66 | 0.80 | 0.50 | 0.40 | 0.87 | 0.04 | 4.2% |
| SC-80.02 | 10 min | 4361 | 1.59 | 1.61 | 0.11 | 1.62 | 1.65 | 1.41 | 1.53 | 1.02 | 0.84 | 1.65 | 0.03 | 1.8% |
| SC-81.01 | 10 min | 4361 | 0.60 | 0.61 | 0.04 | 0.61 | 0.62 | 0.54 | 0.58 | 0.37 | 0.32 | 0.62 | 0.01 | 1.9% |
| SC-81.02 | 10 min | 4361 | 1.76 | 1.78 | 0.12 | 1.78 | 1.82 | 1.58 | 1.69 | 1.10 | 0.94 | 1.82 | 0.04 | 2.5% |
| SC-82.01 | 10 min | 4363 | 0.71 | 0.72 | 0.06 | 0.74 | 0.77 | 0.60 | 0.71 | 0.45 | 0.36 | 0.77 | 0.03 | 3.8% |
| SC-83.01 | 10 min | 4363 | 0.45 | 0.45 | 0.04 | 0.47 | 0.49 | 0.38 | 0.45 | 0.28 | 0.23 | 0.49 | 0.02 | 3.2% |
| SC-84.01 | 10 min | 4363 | 0.67 | 0.68 | 0.05 | 0.69 | 0.72 | 0.58 | 0.66 | 0.42 | 0.34 | 0.72 | 0.03 | 3.8% |
| SC-84.02 | 10 min | 4363 | 1.63 | 1.66 | 0.14 | 1.69 | 1.76 | 1.43 | 1.63 | 1.05 | 0.87 | 1.76 | 0.07 | 4.0% |
| SC-84.03 | 10 min | 4363 | 2.16 | 2.20 | 0.17 | 2.20 | 2.29 | 1.91 | 2.12 | 1.38 | 1.15 | 2.29 | 0.09 | 4.1% |
| SC-84.04 | 10 min | 4368 | 2.56 | 2.61 | 0.20 | 2.63 | 2.71 | 2.26 | 2.51 | 1.65 | 1.37 | 2.71 | 0.08 | 3.0% |
| SC-84.05 | 10 min | 4363 | 3.03 | 3.08 | 0.19 | 3.10 | 3.21 | 2.77 | 2.93 | 1.94 | 1.68 | 3.21 | 0.11 | 3.5% |
| SC-84.06 | 10 min | 4363 | 3.36 | 3.39 | 0.15 | 3.42 | 3.51 | 3.11 | 3.16 | 2.14 | 1.87 | 3.51 | 0.09 | 2.5% |
| SC-85.01 | 10 min | 4363 | 0.42 | 0.42 | 0.03 | 0.43 | 0.45 | 0.34 | 0.42 | 0.26 | 0.21 | 0.45 | 0.02 | 4.7% |
| SC-86.01 | 10 min | 4363 | 0.63 | 0.64 | 0.05 | 0.66 | 0.69 | 0.53 | 0.63 | 0.40 | 0.32 | 0.69 | 0.03 | 3.9% |
| SC-86.02 | 10 min | 4363 | 1.22 | 1.25 | 0.10 | 1.27 | 1.32 | 1.07 | 1.23 | 0.79 | 0.71 | 1.32 | 0.05 | 3.9% |
| SC-87.01 | 10 min | 4363 | 0.92 | 0.93 | 0.08 | 0.96 | 1.01 | 0.76 | 0.93 | 0.59 | 0.46 | 1.01 | 0.05 | 4.8% |
| SC-87.02 | 10 min | 4363 | 1.57 | 1.60 | 0.12 | 1.60 | 1.67 | 1.36 | 1.55 | 1.02 | 0.82 | 1.67 | 0.07 | 4.4% |
| SC-88.01 | 10 min | 4363 | 0.41 | 0.42 | 0.04 | 0.43 | 0.45 | 0.35 | 0.42 | 0.26 | 0.21 | 0.45 | 0.02 | 4.5% |
| SC-88.02 | 10 min | 4363 | 0.68 | 0.69 | 0.05 | 0.69 | 0.72 | 0.61 | 0.67 | 0.43 | 0.39 | 0.72 | 0.03 | 4.1% |
| SC-89.01 | 10 min | 4363 | 0.45 | 0.46 | 0.04 | 0.47 | 0.49 | 0.38 | 0.45 | 0.29 | 0.23 | 0.49 | 0.02 | 4.5% |
| SC-89.02 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.51 | 0.53 | 0.44 | 0.49 | 0.32 | 0.27 | 0.53 | 0.02 | 4.1% |
| SC-9.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.62 | 0.65 | 0.50 | 0.60 | 0.38 | 0.30 | 0.65 | 0.03 | 4.5% |
| SC-90.01 | 10 min | 4363 | 0.18 | 0.19 | 0.02 | 0.19 | 0.20 | 0.16 | 0.18 | 0.12 | 0.10 | 0.20 | 0.01 | 3.3% |
| SC-91.01 | 10 min | 4366 | 0.53 | 0.54 | 0.05 | 0.56 | 0.59 | 0.42 | 0.55 | 0.34 | 0.26 | 0.59 | 0.03 | 5.2% |
| SC-91.02 | 10 min | 4363 | 1.11 | 1.14 | 0.10 | 1.15 | 1.20 | 0.92 | 1.11 | 0.73 | 0.56 | 1.20 | 0.05 | 4.4% |
| SC-92.01 | 10 min | 4368 | 0.53 | 0.54 | 0.04 | 0.55 | 0.57 | 0.48 | 0.52 | 0.33 | 0.29 | 0.57 | 0.02 | 2.9% |
| SC-92.02 | 10 min | 4354 | 1.51 | 1.50 | 0.10 | 1.52 | 1.52 | 1.42 | 1.42 | 0.95 | 0.87 | 1.52 | 0.00 | 0.0% |
| SC-93.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.60 | 0.63 | 0.50 | 0.58 | 0.37 | 0.30 | 0.63 | 0.03 | 5.0% |
| SC-94.01 | 10 min | 4366 | 0.64 | 0.65 | 0.05 | 0.67 | 0.70 | 0.51 | 0.65 | 0.41 | 0.31 | 0.70 | 0.03 | 4.7% |
| SC-94.02 | 10 min | 4363 | 1.50 | 1.53 | 0.12 | 1.54 | 1.60 | 1.27 | 1.49 | 0.98 | 0.77 | 1.60 | 0.06 | 4.2% |
| SC-95.01 | 10 min | 4366 | 0.38 | 0.38 | 0.03 | 0.40 | 0.42 | 0.29 | 0.39 | 0.24 | 0.18 | 0.42 | 0.02 | 3.9% |
| SC-95.02 | 10 min | 4363 | 0.92 | 0.93 | 0.08 | 0.96 | 1.00 | 0.74 | 0.93 | 0.59 | 0.45 | 1.00 | 0.04 | 4.1% |
| SC-96.01 | 10 min | 4366 | 0.42 | 0.43 | 0.04 | 0.44 | 0.46 | 0.34 | 0.43 | 0.27 | 0.21 | 0.46 | 0.02 | 5.3% |
| SC-97.01 | 10 min | 4363 | 0.28 | 0.29 | 0.03 | 0.30 | 0.31 | 0.22 | 0.29 | 0.18 | 0.14 | 0.31 | 0.01 | 4.4% |
| SC-97.02 | 10 min | 4361 | 1.66 | 1.68 | 0.12 | 1.68 | 1.72 | 1.46 | 1.60 | 1.09 | 0.90 | 1.72 | 0.04 | 2.3% |
| SC-98.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.52 | 0.54 | 0.42 | 0.50 | 0.31 | 0.25 | 0.54 | 0.02 | 3.5% |
| SC-99.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.51 | 0.53 | 0.39 | 0.49 | 0.31 | 0.24 | 0.53 | 0.02 | 3.1% |
| SC-99.02 | 10 min | 4354 | 1.32 | 1.31 | 0.09 | 1.33 | 1.33 | 1.16 | 1.23 | 0.84 | 0.70 | 1.33 | 0.00 | -0.2% |
| SC-99.03 | 10 min | 4354 | 2.27 | 2.26 | 0.15 | 2.29 | 2.29 | 2.05 | 2.12 | 1.45 | 1.22 | 2.29 | 0.00 | 0.1% |
| SC-99.04 | 10 min | 4365 | 5.98 | 6.05 | 0.42 | 6.08 | 6.25 | 5.46 | 5.76 | 3.86 | 3.35 | 6.25 | 0.17 | 2.7% |
| Dummy1 | 15 min | 4392 | 29.89 | 29.57 | 2.15 | 29.65 | 28.74 | 30.86 | 24.58 | 20.49 | 19.26 | 30.86 | 1.21 | 4.1% |
| Dummy2 | 25 min | 4394 | 47.29 | 47.40 | 3.06 | 47.50 | 38.68 | 41.86 | 49.28 | 37.39 | 36.85 | 49.28 | 1.78 | 3.7% |
| Dummy3 | 30 min | 4498 | 92.46 | 92.02 | 6.67 | 92.21 | 75.15 | 84.17 | 81.97 | 85.68 | 83.10 | 85.68 | -6.53 | -7.1% |
| DummyOut | 1.50 hour | 4586 | 101.69 | 99.98 | 9.16 | 100.14 | 75.59 | 84.63 | 82.98 | 100.41 | 84.17 | 100.41 | 0.27 | 0.3% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-1.01 | 10 min | 4365 | 0.91 | 0.92 | 0.07 | 0.93 | 0.96 | 0.73 | 0.62 | 0.50 | 0.74 | 0.96 | 0.03 | 2.7% |
| SC-1.02 | 10 min | 4361 | 1.98 | 1.99 | 0.13 | 2.00 | 2.04 | 1.61 | 1.35 | 1.09 | 1.63 | 2.04 | 0.04 | 1.9% |
| SC-1.03 | 10 min | 4365 | 2.33 | 2.37 | 0.16 | 2.38 | 2.45 | 1.88 | 1.59 | 1.29 | 1.90 | 2.45 | 0.07 | 3.0% |
| SC-1.04 | 10 min | 4354 | 6.27 | 6.18 | 0.42 | 6.27 | 6.27 | 5.21 | 4.37 | 3.48 | 5.28 | 6.27 | 0.00 | 0.0% |
| SC-1.05 | 10 min | 4354 | 6.71 | 6.73 | 0.41 | 6.82 | 6.82 | 5.70 | 4.76 | 3.77 | 5.73 | 6.82 | 0.00 | 0.0% |
| SC-1.06 | 10 min | 4354 | 7.72 | 7.71 | 0.42 | 7.79 | 7.79 | 6.71 | 5.50 | 4.29 | 6.66 | 7.79 | 0.00 | 0.0% |
| SC-1.07 | 10 min | 4361 | 7.83 | 7.87 | 0.40 | 7.91 | 7.98 | 6.89 | 5.62 | 4.37 | 6.79 | 7.98 | 0.07 | 0.9% |
| SC-1.08 | 45 min | 4528 | 8.50 | 8.47 | 0.81 | 8.71 | 3.81 | 7.22 | 9.18 | 7.74 | 9.67 | 9.67 | 0.96 | 11.0% |
| SC-1.09 | 45 min | 4533 | 9.13 | 9.22 | 0.59 | 9.35 | 3.92 | 7.36 | 9.35 | 8.67 | 10.04 | 10.04 | 0.69 | 7.4% |
| SC-1.10 | 45 min | 4533 | 9.23 | 9.30 | 0.54 | 9.36 | 4.42 | 7.37 | 9.36 | 8.83 | 10.08 | 10.08 | 0.72 | 7.7% |
| SC-1.11 | 10 min | 4354 | 13.75 | 13.48 | 0.64 | 13.59 | 13.59 | 11.80 | 13.81 | 12.24 | 13.71 | 13.81 | 0.22 | 1.6% |
| SC-1.12 | 10 min | 4354 | 17.16 | 16.87 | 0.68 | 16.99 | 16.99 | 14.89 | 15.97 | 13.59 | 16.02 | 16.99 | 0.00 | 0.0% |
| SC-1.13 | 10 min | 4354 | 19.38 | 19.34 | 0.38 | 19.43 | 19.43 | 17.45 | 17.79 | 14.62 | 18.07 | 19.43 | 0.00 | 0.0% |
| SC-1.14 | 10 min | 4354 | 23.18 | 23.10 | 0.36 | 23.13 | 23.13 | 21.14 | 20.44 | 16.29 | 20.96 | 23.13 | 0.00 | 0.0% |
| SC-1.15 | 10 min | 4357 | 25.18 | 25.01 | 0.41 | 25.02 | 24.92 | 23.32 | 21.95 | 17.34 | 22.65 | 24.92 | -0.10 | -0.4% |
| SC-1.16 | 15 min | 4403 | 28.32 | 28.62 | 0.60 | 28.64 | 26.49 | 26.73 | 24.67 | 19.55 | 26.27 | 26.73 | -1.91 | -6.7% |
| SC-1.17 | 15 min | 4358 | 28.79 | 28.95 | 0.58 | 28.95 | 26.73 | 27.04 | 25.08 | 19.90 | 26.77 | 27.04 | -1.91 | -6.6% |
| SC-1.18 | 30 min | 4498 | 18.13 | 17.80 | 0.92 | 18.10 | 15.70 | 17.57 | 18.58 | 17.16 | 18.44 | 18.58 | 0.48 | 2.7% |
| SC-1.19 | 1 hour | 4558 | 22.87 | 22.70 | 0.68 | 22.75 | 10.94 | 15.81 | 22.45 | 22.75 | 21.43 | 22.75 | 0.00 | 0.0% |
| SC-1.20 | 1 hour | 4556 | 20.80 | 20.73 | 0.32 | 20.73 | 10.68 | 14.98 | 19.90 | 20.73 | 19.81 | 20.73 | 0.00 | 0.0% |
| SC-1.21 | 1 hour | 4556 | 20.81 | 20.74 | 0.32 | 20.74 | 10.68 | 14.98 | 19.90 | 20.73 | 20.06 | 20.73 | -0.01 | 0.0% |
| SC-1.22 | 1.50 hour | 4585 | 20.92 | 20.91 | 0.52 | 20.92 | 10.70 | 15.02 | 19.96 | 20.80 | 21.15 | 21.15 | 0.23 | 1.1% |
| SC-1.23 | 1.50 hour | 4588 | 23.31 | 23.43 | 1.19 | 23.45 | 18.96 | 20.01 | 21.71 | 20.83 | 24.19 | 24.19 | 0.73 | 3.1% |
| SC-1.24 | 20 min | 4429 | 31.82 | 31.15 | 2.71 | 31.77 | 30.21 | 31.77 | 31.07 | 25.73 | 34.76 | 34.76 | 2.99 | 9.4% |
| SC-1.25 | 25 min | 4462 | 32.39 | 32.11 | 2.79 | 32.54 | 30.58 | 32.05 | 31.74 | 26.37 | 35.71 | 35.71 | 3.17 | 9.8% |
| SC-1.26 | 25 min | 4462 | 34.92 | 35.18 | 2.42 | 35.37 | 32.18 | 32.79 | 33.81 | 28.43 | 38.63 | 38.63 | 3.26 | 9.2% |
| SC-1.27 | 25 min | 4462 | 35.54 | 35.90 | 2.37 | 35.95 | 32.65 | 33.31 | 34.27 | 29.00 | 39.28 | 39.28 | 3.33 | 9.3% |
| SC-1.28 | 15 min | 4396 | 46.97 | 46.93 | 0.71 | 47.23 | 39.97 | 44.67 | 42.96 | 37.32 | 50.74 | 50.74 | 3.51 | 7.4% |
| SC-1.29 | 25 min | 4459 | 49.67 | 49.53 | 2.24 | 49.56 | 40.62 | 49.42 | 44.84 | 40.45 | 54.05 | 54.05 | 4.49 | 9.1% |
| SC-1.30 | 25 min | 4460 | 50.64 | 50.48 | 2.21 | 50.66 | 40.84 | 50.45 | 46.51 | 41.29 | 54.95 | 54.95 | 4.29 | 8.5% |
| SC-1.31 | 25 min | 4459 | 51.23 | 51.10 | 2.22 | 51.58 | 41.01 | 51.10 | 47.75 | 42.07 | 55.52 | 55.52 | 3.94 | 7.6% |
| SC-1.32 | 25 min | 4459 | 52.19 | 52.41 | 2.26 | 52.64 | 41.27 | 51.98 | 49.39 | 43.26 | 56.34 | 56.34 | 3.70 | 7.0% |
| SC-1.33 | 30 min | 4504 | 54.20 | 54.08 | 3.31 | 54.45 | 41.61 | 53.01 | 51.99 | 46.28 | 57.51 | 57.51 | 3.06 | 5.6% |
| SC-1.34 | 30 min | 4504 | 54.48 | 54.32 | 3.17 | 54.52 | 41.63 | 53.08 | 52.25 | 47.02 | 57.70 | 57.70 | 3.18 | 5.8% |
| SC-1.35 | 30 min | 4495 | 54.84 | 54.64 | 3.02 | 54.65 | 41.68 | 53.21 | 52.60 | 47.73 | 57.91 | 57.91 | 3.26 | 6.0% |
| SC-1.36 | 30 min | 4495 | 57.10 | 56.77 | 2.12 | 57.49 | 41.92 | 53.87 | 57.60 | 51.86 | 59.18 | 59.18 | 1.69 | 2.9% |
| SC-10.01 | 10 min | 4363 | 0.94 | 0.95 | 0.08 | 0.97 | 1.01 | 0.68 | 0.56 | 0.47 | 0.67 | 1.01 | 0.04 | 3.8% |
| SC-100.01 | 10 min | 4363 | 1.09 | 1.11 | 0.09 | 1.14 | 1.19 | 0.77 | 0.64 | 0.55 | 0.75 | 1.19 | 0.05 | 4.4% |
| SC-100.02 | 10 min | 4363 | 1.90 | 1.93 | 0.16 | 1.95 | 2.04 | 1.41 | 1.16 | 0.96 | 1.37 | 2.04 | 0.09 | 4.4% |
| SC-101.01 | 10 min | 4365 | 1.17 | 1.18 | 0.08 | 1.18 | 1.21 | 0.88 | 0.72 | 0.58 | 0.86 | 1.21 | 0.03 | 2.9% |
| SC-101.02 | 10 min | 4354 | 2.06 | 2.02 | 0.14 | 2.05 | 2.05 | 1.61 | 1.32 | 1.05 | 1.59 | 2.05 | 0.00 | 0.0% |
| SC-102.01 | 10 min | 4363 | 0.90 | 0.92 | 0.08 | 0.94 | 0.98 | 0.65 | 0.53 | 0.45 | 0.64 | 0.98 | 0.04 | 4.4% |
| SC-102.02 | 10 min | 4354 | 3.47 | 3.45 | 0.23 | 3.50 | 3.50 | 2.70 | 2.21 | 1.74 | 2.63 | 3.50 | 0.00 | -0.1% |
| SC-103.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.63 | 0.66 | 0.44 | 0.36 | 0.31 | 0.42 | 0.66 | 0.03 | 4.2% |
| SC-103.02 | 10 min | 4354 | 2.15 | 2.13 | 0.16 | 2.17 | 2.17 | 1.62 | 1.35 | 1.06 | 1.58 | 2.17 | 0.00 | -0.1% |
| SC-104.01 | 10 min | 4363 | 0.55 | 0.56 | 0.04 | 0.56 | 0.59 | 0.40 | 0.33 | 0.28 | 0.38 | 0.59 | 0.03 | 4.6% |
| SC-105.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.60 | 0.63 | 0.43 | 0.35 | 0.29 | 0.41 | 0.63 | 0.03 | 4.2% |
| SC-105.02 | 10 min | 4354 | 1.41 | 1.39 | 0.10 | 1.41 | 1.41 | 1.07 | 0.89 | 0.70 | 1.05 | 1.41 | 0.00 | -0.1% |
| SC-105.03 | 10 min | 4354 | 3.28 | 3.24 | 0.24 | 3.29 | 3.29 | 2.50 | 2.07 | 1.63 | 2.44 | 3.29 | 0.00 | -0.2% |
| SC-105.04 | 10 min | 4354 | 4.43 | 4.38 | 0.31 | 4.44 | 4.44 | 3.41 | 2.82 | 2.19 | 3.33 | 4.44 | 0.00 | 0.0% |
| SC-105.05 | 10 min | 4354 | 5.33 | 5.18 | 0.38 | 5.26 | 5.26 | 4.24 | 3.47 | 2.71 | 4.15 | 5.26 | 0.00 | 0.0% |
| SC-105.06 | 10 min | 4354 | 5.66 | 5.50 | 0.40 | 5.54 | 5.54 | 4.79 | 3.90 | 3.03 | 4.70 | 5.54 | 0.00 | 0.1% |
| SC-105.07 | 15 min | 4400 | 8.30 | 8.07 | 0.99 | 8.11 | 8.26 | 7.46 | 5.98 | 4.65 | 7.24 | 8.26 | 0.15 | 1.9% |
| SC-105.08 | 15 min | 4400 | 9.35 | 9.31 | 0.77 | 9.32 | 9.54 | 8.72 | 6.94 | 5.30 | 8.37 | 9.54 | 0.22 | 2.4% |
| SC-105.09 | 10 min | 4356 | 12.35 | 12.26 | 0.17 | 12.28 | 12.57 | 11.71 | 9.10 | 6.73 | 10.95 | 12.57 | 0.29 | 2.4% |
| SC-106.01 | 10 min | 4363 | 0.42 | 0.43 | 0.03 | 0.44 | 0.46 | 0.31 | 0.25 | 0.21 | 0.30 | 0.46 | 0.02 | 3.6% |
| SC-107.01 | 10 min | 4368 | 0.75 | 0.76 | 0.06 | 0.76 | 0.79 | 0.54 | 0.45 | 0.37 | 0.53 | 0.79 | 0.03 | 4.5% |
| SC-108.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.56 | 0.59 | 0.39 | 0.32 | 0.27 | 0.37 | 0.59 | 0.03 | 4.6% |
| SC-109.01 | 10 min | 4363 | 0.70 | 0.72 | 0.06 | 0.73 | 0.76 | 0.51 | 0.42 | 0.35 | 0.50 | 0.76 | 0.03 | 3.5% |
| SC-11.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.59 | 0.62 | 0.42 | 0.35 | 0.29 | 0.41 | 0.62 | 0.03 | 4.7% |
| SC-110.01 | 10 min | 4363 | 0.64 | 0.66 | 0.06 | 0.67 | 0.70 | 0.47 | 0.39 | 0.32 | 0.46 | 0.70 | 0.03 | 4.3% |
| SC-110.02 | 10 min | 4354 | 1.49 | 1.48 | 0.10 | 1.50 | 1.50 | 1.17 | 0.96 | 0.76 | 1.15 | 1.50 | 0.00 | -0.1% |
| SC-110.03 | 10 min | 4354 | 1.61 | 1.61 | 0.10 | 1.64 | 1.64 | 1.29 | 1.05 | 0.84 | 1.27 | 1.64 | 0.00 | -0.2% |
| SC-111.01 | 20 min | 4433 | 0.47 | 0.44 | 0.06 | 0.45 | 0.39 | 0.46 | 0.35 | 0.26 | 0.44 | 0.46 | 0.01 | 2.7% |
| SC-112.01 | 10 min | 4363 | 1.09 | 1.11 | 0.09 | 1.13 | 1.18 | 0.80 | 0.67 | 0.55 | 0.80 | 1.18 | 0.05 | 4.0% |
| SC-113.01 | 10 min | 4363 | 0.40 | 0.41 | 0.03 | 0.41 | 0.42 | 0.29 | 0.24 | 0.20 | 0.29 | 0.42 | 0.01 | 3.6% |
| SC-113.02 | 10 min | 4354 | 1.31 | 1.28 | 0.09 | 1.30 | 1.30 | 1.04 | 0.87 | 0.69 | 1.05 | 1.30 | 0.00 | -0.1% |
| SC-114.01 | 10 min | 4365 | 0.70 | 0.71 | 0.05 | 0.71 | 0.73 | 0.56 | 0.47 | 0.38 | 0.57 | 0.73 | 0.02 | 3.0% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-114.02 | 10 min | 4354 | 1.12 | 1.13 | 0.07 | 1.14 | 1.14 | 0.89 | 0.75 | 0.60 | 0.90 | 1.14 | 0.00 | 0.1% |
| SC-114.03 | 10 min | 4365 | 2.31 | 2.34 | 0.16 | 2.34 | 2.41 | 1.81 | 1.51 | 1.22 | 1.81 | 2.41 | 0.07 | 2.8% |
| SC-115.01 | 10 min | 4363 | 0.62 | 0.64 | 0.05 | 0.65 | 0.68 | 0.46 | 0.38 | 0.31 | 0.45 | 0.68 | 0.03 | 3.9% |
| SC-115.02 | 10 min | 4361 | 1.02 | 1.03 | 0.07 | 1.04 | 1.05 | 0.78 | 0.64 | 0.52 | 0.77 | 1.05 | 0.01 | 1.3% |
| SC-116.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.64 | 0.67 | 0.45 | 0.38 | 0.31 | 0.45 | 0.67 | 0.03 | 4.5% |
| SC-116.02 | 10 min | 4365 | 1.01 | 1.03 | 0.07 | 1.03 | 1.06 | 0.77 | 0.64 | 0.52 | 0.77 | 1.06 | 0.03 | 3.1% |
| SC-117.01 | 10 min | 4363 | 0.37 | 0.37 | 0.03 | 0.38 | 0.39 | 0.27 | 0.22 | 0.18 | 0.26 | 0.39 | 0.01 | 3.5% |
| SC-118.01 | 10 min | 4363 | 0.79 | 0.80 | 0.07 | 0.83 | 0.87 | 0.55 | 0.47 | 0.40 | 0.54 | 0.87 | 0.04 | 4.3% |
| SC-119.01 | 10 min | 4363 | 1.22 | 1.25 | 0.10 | 1.26 | 1.32 | 0.90 | 0.75 | 0.61 | 0.90 | 1.32 | 0.06 | 4.7% |
| SC-119.02 | 10 min | 4363 | 3.06 | 3.12 | 0.24 | 3.14 | 3.28 | 2.30 | 1.91 | 1.56 | 2.28 | 3.28 | 0.14 | 4.4% |
| SC-12.01 | 10 min | 4363 | 0.67 | 0.68 | 0.05 | 0.69 | 0.72 | 0.49 | 0.41 | 0.33 | 0.48 | 0.72 | 0.03 | 3.7% |
| SC-12.02 | 10 min | 4363 | 1.16 | 1.18 | 0.10 | 1.20 | 1.25 | 0.84 | 0.69 | 0.58 | 0.82 | 1.25 | 0.05 | 4.4% |
| SC-12.03 | 10 min | 4365 | 2.14 | 2.17 | 0.16 | 2.19 | 2.25 | 1.62 | 1.33 | 1.09 | 1.60 | 2.25 | 0.06 | 2.6% |
| SC-12.04 | 10 min | 4368 | 2.73 | 2.77 | 0.20 | 2.79 | 2.87 | 2.09 | 1.73 | 1.40 | 2.07 | 2.87 | 0.08 | 2.9% |
| SC-120.01 | 10 min | 4363 | 0.55 | 0.56 | 0.05 | 0.57 | 0.59 | 0.40 | 0.33 | 0.27 | 0.39 | 0.59 | 0.02 | 3.6% |
| SC-121.01 | 10 min | 4363 | 0.69 | 0.70 | 0.06 | 0.71 | 0.74 | 0.51 | 0.42 | 0.34 | 0.50 | 0.74 | 0.03 | 4.1% |
| SC-122.01 | 10 min | 4363 | 1.10 | 1.11 | 0.10 | 1.16 | 1.20 | 0.77 | 0.65 | 0.56 | 0.74 | 1.20 | 0.04 | 3.8% |
| SC-122.02 | 10 min | 4368 | 1.75 | 1.79 | 0.14 | 1.79 | 1.86 | 1.30 | 1.07 | 0.89 | 1.27 | 1.86 | 0.07 | 3.7% |
| SC-122.03 | 10 min | 4365 | 2.37 | 2.40 | 0.19 | 2.41 | 2.49 | 1.79 | 1.48 | 1.19 | 1.75 | 2.49 | 0.08 | 3.2% |
| SC-123.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.58 | 0.61 | 0.40 | 0.33 | 0.28 | 0.39 | 0.61 | 0.03 | 5.1% |
| SC-123.02 | 10 min | 4361 | 1.60 | 1.61 | 0.12 | 1.62 | 1.65 | 1.21 | 1.00 | 0.81 | 1.19 | 1.65 | 0.03 | 2.1% |
| SC-123.03 | 10 min | 4354 | 10.94 | 10.75 | 0.68 | 10.91 | 10.91 | 9.53 | 8.05 | 6.39 | 9.61 | 10.91 | -0.01 | 0.0% |
| SC-123.04 | 10 min | 4354 | 11.14 | 11.03 | 0.68 | 11.19 | 11.19 | 9.66 | 8.20 | 6.51 | 9.80 | 11.19 | 0.00 | 0.0% |
| SC-123.05 | 10 min | 4361 | 14.05 | 14.09 | 0.80 | 14.12 | 14.44 | 12.22 | 10.30 | 8.15 | 12.23 | 14.44 | 0.32 | 2.3% |
| SC-123.06 | 10 min | 4368 | 14.40 | 14.49 | 0.74 | 14.54 | 14.95 | 12.73 | 10.64 | 8.37 | 12.59 | 14.95 | 0.41 | 2.8% |
| SC-123.07 | 10 min | 4363 | 15.34 | 15.34 | 0.72 | 15.60 | 16.07 | 13.86 | 11.57 | 9.01 | 13.66 | 16.07 | 0.47 | 3.0% |
| SC-124.01 | 20 min | 4429 | 0.73 | 0.70 | 0.08 | 0.70 | 0.54 | 0.70 | 0.57 | 0.45 | 0.69 | 0.70 | 0.00 | 0.6% |
| SC-124.02 | 20 min | 4371 | 4.66 | 4.51 | 0.56 | 4.51 | 3.96 | 4.41 | 3.66 | 2.89 | 4.39 | 4.41 | -0.10 | -2.3% |
| SC-125.01 | 20 min | 4433 | 0.99 | 0.96 | 0.12 | 0.97 | 0.77 | 0.98 | 0.76 | 0.59 | 0.94 | 0.98 | 0.01 | 0.7% |
| SC-126.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.54 | 0.56 | 0.38 | 0.31 | 0.26 | 0.37 | 0.56 | 0.02 | 4.1% |
| SC-126.02 | 20 min | 4433 | 1.33 | 1.29 | 0.15 | 1.30 | 1.01 | 1.28 | 1.07 | 0.85 | 1.27 | 1.28 | -0.02 | -1.8% |
| SC-126.03 | 20 min | 4371 | 2.42 | 2.36 | 0.35 | 2.40 | 2.25 | 2.23 | 1.89 | 1.51 | 2.25 | 2.25 | -0.15 | -6.2% |
| SC-127.01 | 10 min | 4363 | 1.22 | 1.23 | 0.11 | 1.28 | 1.33 | 0.85 | 0.72 | 0.61 | 0.82 | 1.33 | 0.05 | 4.2% |
| SC-127.02 | 10 min | 4363 | 3.30 | 3.36 | 0.29 | 3.43 | 3.57 | 2.40 | 2.00 | 1.69 | 2.34 | 3.57 | 0.14 | 4.1% |
| SC-128.01 | 10 min | 4363 | 1.20 | 1.22 | 0.11 | 1.25 | 1.31 | 0.86 | 0.71 | 0.60 | 0.84 | 1.31 | 0.06 | 4.6% |
| SC-129.01 | 10 min | 4354 | 0.61 | 0.60 | 0.04 | 0.61 | 0.61 | 0.48 | 0.40 | 0.32 | 0.48 | 0.61 | 0.00 | 0.0% |
| SC-13.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.63 | 0.66 | 0.45 | 0.37 | 0.31 | 0.44 | 0.66 | 0.03 | 4.7% |
| SC-130.01 | 10 min | 4363 | 0.90 | 0.91 | 0.08 | 0.94 | 0.97 | 0.65 | 0.53 | 0.45 | 0.63 | 0.97 | 0.03 | 3.7% |
| SC-131.01 | 10 min | 4363 | 0.35 | 0.36 | 0.03 | 0.37 | 0.39 | 0.25 | 0.21 | 0.18 | 0.24 | 0.39 | 0.02 | 4.4% |
| SC-132.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.52 | 0.54 | 0.37 | 0.31 | 0.25 | 0.36 | 0.54 | 0.02 | 3.6% |
| SC-133.01 | 10 min | 4363 | 0.36 | 0.37 | 0.03 | 0.38 | 0.40 | 0.26 | 0.21 | 0.18 | 0.25 | 0.40 | 0.02 | 4.4% |
| SC-134.01 | 10 min | 4363 | 0.31 | 0.31 | 0.02 | 0.32 | 0.33 | 0.23 | 0.19 | 0.16 | 0.23 | 0.33 | 0.01 | 2.8% |
| SC-134.02 | 10 min | 4357 | 1.01 | 1.01 | 0.06 | 1.02 | 0.94 | 0.89 | 0.71 | 0.52 | 0.87 | 0.94 | -0.08 | -7.9% |
| SC-134.03 | 10 min | 4364 | 2.03 | 2.06 | 0.17 | 2.07 | 1.84 | 1.83 | 1.46 | 1.11 | 1.81 | 1.84 | -0.23 | -11.1% |
| SC-134.04 | 10 min | 4364 | 2.88 | 2.91 | 0.24 | 2.93 | 2.62 | 2.62 | 2.10 | 1.59 | 2.60 | 2.62 | -0.31 | -10.6% |
| SC-135.01 | 10 min | 4363 | 0.25 | 0.25 | 0.02 | 0.25 | 0.26 | 0.18 | 0.15 | 0.12 | 0.17 | 0.26 | 0.01 | 5.0% |
| SC-135.02 | 10 min | 4361 | 1.37 | 1.38 | 0.10 | 1.39 | 1.41 | 1.04 | 0.87 | 0.70 | 1.04 | 1.41 | 0.02 | 1.7% |
| SC-135.03 | 10 min | 4361 | 1.80 | 1.82 | 0.12 | 1.83 | 1.86 | 1.39 | 1.16 | 0.93 | 1.38 | 1.86 | 0.03 | 1.5% |
| SC-135.04 | 10 min | 4361 | 3.99 | 4.03 | 0.28 | 4.06 | 4.12 | 3.10 | 2.59 | 2.07 | 3.09 | 4.12 | 0.06 | 1.6% |
| SC-135.05 | 10 min | 4361 | 4.55 | 4.59 | 0.26 | 4.60 | 4.69 | 3.61 | 2.97 | 2.34 | 3.54 | 4.69 | 0.09 | 2.0% |
| SC-135.06 | 10 min | 4354 | 7.52 | 7.44 | 0.43 | 7.50 | 7.50 | 6.06 | 4.98 | 3.85 | 5.99 | 7.50 | 0.00 | 0.0% |
| SC-136.01 | 10 min | 4363 | 0.73 | 0.74 | 0.06 | 0.76 | 0.79 | 0.53 | 0.44 | 0.37 | 0.52 | 0.79 | 0.03 | 4.3% |
| SC-137.01 | 10 min | 4363 | 0.75 | 0.76 | 0.06 | 0.77 | 0.81 | 0.55 | 0.46 | 0.37 | 0.55 | 0.81 | 0.04 | 4.6% |
| SC-138.01 | 10 min | 4368 | 0.90 | 0.92 | 0.07 | 0.92 | 0.95 | 0.67 | 0.58 | 0.47 | 0.68 | 0.95 | 0.03 | 3.5% |
| SC-139.01 | 10 min | 4363 | 0.88 | 0.90 | 0.07 | 0.90 | 0.94 | 0.66 | 0.55 | 0.45 | 0.66 | 0.94 | 0.04 | 4.7% |
| SC-139.02 | 10 min | 4368 | 1.07 | 1.09 | 0.08 | 1.09 | 1.13 | 0.82 | 0.68 | 0.55 | 0.81 | 1.13 | 0.04 | 3.8% |
| SC-14.01 | 10 min | 4363 | 1.07 | 1.09 | 0.09 | 1.11 | 1.16 | 0.77 | 0.63 | 0.53 | 0.75 | 1.16 | 0.05 | 4.2% |
| SC-14.02 | 10 min | 4365 | 1.66 | 1.68 | 0.12 | 1.69 | 1.74 | 1.25 | 1.03 | 0.84 | 1.23 | 1.74 | 0.05 | 3.1% |
| SC-14.03 | 10 min | 4365 | 2.17 | 2.20 | 0.16 | 2.21 | 2.28 | 1.66 | 1.37 | 1.10 | 1.64 | 2.28 | 0.06 | 2.9% |
| SC-140.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.64 | 0.67 | 0.46 | 0.38 | 0.31 | 0.45 | 0.67 | 0.03 | 4.0% |
| SC-141.01 | 10 min | 4364 | 1.01 | 1.03 | 0.13 | 1.04 | 0.86 | 0.83 | 0.68 | 0.51 | 0.82 | 0.86 | -0.18 | -17.1% |
| SC-142.01 | 20 min | 4433 | 1.60 | 1.53 | 0.20 | 1.55 | 1.29 | 1.57 | 1.21 | 0.94 | 1.52 | 1.57 | 0.02 | 1.3% |
| SC-143.01 | 20 min | 4367 | 0.60 | 0.60 | 0.07 | 0.61 | 0.53 | 0.56 | 0.50 | 0.40 | 0.58 | 0.58 | -0.03 | -5.5% |
| SC-143.02 | 10 min | 4364 | 5.00 | 4.89 | 0.46 | 4.94 | 4.70 | 4.14 | 3.55 | 2.78 | 4.23 | 4.70 | -0.24 | -4.9% |
| SC-144.01 | 10 min | 4365 | 0.72 | 0.73 | 0.05 | 0.73 | 0.75 | 0.57 | 0.49 | 0.39 | 0.58 | 0.75 | 0.02 | 3.3% |
| SC-144.02 | 10 min | 4361 | 1.02 | 1.03 | 0.07 | 1.04 | 1.06 | 0.84 | 0.72 | 0.58 | 0.86 | 1.06 | 0.02 | 2.0% |
| SC-144.03 | 10 min | 4365 | 1.37 | 1.37 | 0.05 | 1.38 | 1.41 | 1.22 | 1.01 | 0.80 | 1.19 | 1.41 | 0.03 | 2.2% |
| SC-144.04 | 10 min | 4364 | 2.44 | 2.43 | 0.05 | 2.44 | 2.40 | 2.22 | 1.74 | 1.31 | 2.14 | 2.40 | -0.04 | -1.7% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-144.05 | 10 min | 4364 | 4.58 | 4.58 | 0.23 | 4.60 | 4.35 | 3.95 | 3.21 | 2.40 | 3.87 | 4.35 | -0.25 | -5.5% |
| SC-145.01 | 10 min | 4363 | 0.91 | 0.93 | 0.08 | 0.94 | 0.98 | 0.66 | 0.55 | 0.47 | 0.65 | 0.98 | 0.04 | 4.8% |
| SC-145.02 | 10 min | 4368 | 1.69 | 1.73 | 0.15 | 1.74 | 1.80 | 1.24 | 1.04 | 0.84 | 1.21 | 1.80 | 0.06 | 3.6% |
| SC-146.01 | 15 min | 4401 | 1.81 | 1.73 | 0.23 | 1.75 | 1.50 | 1.80 | 1.36 | 1.01 | 1.72 | 1.80 | 0.05 | 3.0% |
| SC-147.01 | 10 min | 4364 | 0.90 | 0.91 | 0.10 | 0.92 | 0.79 | 0.74 | 0.61 | 0.44 | 0.74 | 0.79 | -0.13 | -14.5% |
| SC-147.02 | 10 min | 4364 | 1.22 | 1.24 | 0.12 | 1.25 | 1.09 | 1.05 | 0.86 | 0.63 | 1.04 | 1.09 | -0.16 | -13.0% |
| SC-147.03 | 10 min | 4364 | 3.13 | 3.16 | 0.39 | 3.19 | 2.69 | 2.66 | 2.17 | 1.65 | 2.62 | 2.69 | -0.50 | -15.5% |
| SC-148.01 | 10 min | 4368 | 0.76 | 0.78 | 0.06 | 0.78 | 0.80 | 0.56 | 0.46 | 0.38 | 0.55 | 0.80 | 0.02 | 3.1% |
| SC-148.02 | 10 min | 4364 | 1.68 | 1.65 | 0.20 | 1.67 | 1.53 | 1.34 | 1.11 | 0.85 | 1.31 | 1.53 | -0.15 | -8.7% |
| SC-149.01 | 10 min | 4354 | 0.55 | 0.55 | 0.04 | 0.56 | 0.56 | 0.48 | 0.43 | 0.34 | 0.50 | 0.56 | 0.00 | -0.3% |
| SC-149.02 | 10 min | 4364 | 1.82 | 1.81 | 0.21 | 1.83 | 1.62 | 1.49 | 1.29 | 0.99 | 1.52 | 1.62 | -0.21 | -11.6% |
| SC-15.01 | 10 min | 4363 | 1.09 | 1.11 | 0.09 | 1.13 | 1.17 | 0.80 | 0.67 | 0.54 | 0.80 | 1.17 | 0.04 | 3.9% |
| SC-15.02 | 10 min | 4363 | 1.43 | 1.46 | 0.12 | 1.48 | 1.54 | 1.08 | 0.90 | 0.74 | 1.07 | 1.54 | 0.06 | 4.1% |
| SC-15.03 | 10 min | 4365 | 2.28 | 2.32 | 0.17 | 2.33 | 2.41 | 1.73 | 1.46 | 1.17 | 1.74 | 2.41 | 0.07 | 3.2% |
| SC-150.01 | 10 min | 4363 | 0.65 | 0.66 | 0.06 | 0.68 | 0.71 | 0.47 | 0.39 | 0.33 | 0.46 | 0.71 | 0.03 | 3.9% |
| SC-150.02 | 10 min | 4368 | 1.28 | 1.30 | 0.10 | 1.31 | 1.36 | 0.97 | 0.81 | 0.65 | 0.96 | 1.36 | 0.04 | 3.4% |
| SC-150.03 | 10 min | 4361 | 3.27 | 3.30 | 0.24 | 3.32 | 3.38 | 2.51 | 2.09 | 1.68 | 2.50 | 3.38 | 0.06 | 1.9% |
| SC-150.04 | 10 min | 4365 | 4.24 | 4.28 | 0.29 | 4.30 | 4.42 | 3.32 | 2.75 | 2.19 | 3.27 | 4.42 | 0.12 | 2.8% |
| SC-150.05 | 10 min | 4361 | 5.90 | 5.94 | 0.37 | 5.94 | 6.07 | 4.69 | 3.89 | 3.07 | 4.64 | 6.07 | 0.13 | 2.2% |
| SC-150.06 | 10 min | 4354 | 10.88 | 10.89 | 0.54 | 11.00 | 11.00 | 8.93 | 7.34 | 5.70 | 8.79 | 11.00 | 0.00 | 0.0% |
| SC-150.07 | 10 min | 4354 | 17.16 | 16.89 | 0.99 | 17.06 | 17.06 | 14.21 | 11.69 | 9.03 | 14.09 | 17.06 | 0.00 | 0.0% |
| SC-150.08 | 2 hours | 4618 | 9.75 | 9.59 | 2.23 | 9.68 | 0.34 | 1.20 | 9.65 | 9.17 | 9.34 | 9.65 | -0.03 | -0.3% |
| SC-150.09 | 2 hours | 4618 | 10.33 | 10.16 | 2.36 | 10.19 | 2.68 | 2.15 | 9.86 | 9.66 | 9.69 | 9.86 | -0.33 | -3.3% |
| SC-150.10 | 2 hours | 4618 | 12.44 | 12.13 | 2.80 | 12.14 | 6.84 | 6.33 | 12.26 | 11.79 | 12.06 | 12.26 | 0.12 | 1.0% |
| SC-150.11 | 10 min | 4354 | 18.61 | 18.50 | 0.71 | 18.60 | 18.60 | 16.16 | 15.67 | 15.52 | 16.25 | 18.60 | 0.00 | 0.0% |
| SC-150.12 | 10 min | 4354 | 29.14 | 29.21 | 0.96 | 29.36 | 29.36 | 25.61 | 21.81 | 19.92 | 25.61 | 29.36 | 0.00 | 0.0% |
| SC-150.13 | 15 min | 4392 | 33.19 | 33.13 | 1.34 | 33.27 | 33.52 | 30.10 | 25.49 | 21.77 | 30.25 | 33.52 | 0.25 | 0.7% |
| SC-150.14 | 15 min | 4407 | 49.90 | 49.52 | 1.51 | 49.84 | 47.45 | 45.52 | 38.95 | 30.95 | 47.40 | 47.45 | -2.39 | -4.8% |
| SC-150.15 | 15 min | 4407 | 50.49 | 50.05 | 1.49 | 50.19 | 47.88 | 46.03 | 39.46 | 31.65 | 48.14 | 48.14 | -2.05 | -4.1% |
| SC-150.16 | 15 min | 4397 | 52.68 | 52.58 | 1.59 | 52.64 | 49.58 | 47.88 | 41.38 | 33.82 | 50.81 | 50.81 | -1.84 | -3.5% |
| SC-150.17 | 15 min | 4398 | 53.40 | 53.41 | 1.75 | 53.46 | 50.11 | 48.52 | 42.12 | 35.15 | 51.81 | 51.81 | -1.65 | -3.1% |
| SC-151.01 | 10 min | 4363 | 0.87 | 0.89 | 0.08 | 0.91 | 0.95 | 0.63 | 0.52 | 0.44 | 0.62 | 0.95 | 0.04 | 4.0% |
| SC-151.02 | 10 min | 4368 | 1.35 | 1.38 | 0.10 | 1.38 | 1.43 | 1.01 | 0.84 | 0.69 | 1.00 | 1.43 | 0.05 | 3.9% |
| SC-152.01 | 10 min | 4363 | 0.77 | 0.79 | 0.07 | 0.80 | 0.83 | 0.57 | 0.48 | 0.39 | 0.57 | 0.83 | 0.03 | 4.1% |
| SC-153.01 | 10 min | 4363 | 0.62 | 0.64 | 0.05 | 0.65 | 0.67 | 0.45 | 0.40 | 0.33 | 0.46 | 0.67 | 0.02 | 3.5% |
| SC-153.02 | 10 min | 4365 | 1.50 | 1.51 | 0.11 | 1.52 | 1.56 | 1.13 | 0.98 | 0.79 | 1.15 | 1.56 | 0.04 | 2.6% |
| SC-154.01 | 10 min | 4368 | 1.17 | 1.19 | 0.09 | 1.19 | 1.24 | 0.89 | 0.76 | 0.61 | 0.91 | 1.24 | 0.05 | 4.0% |
| SC-154.02 | 10 min | 4354 | 3.93 | 3.93 | 0.26 | 3.98 | 3.98 | 3.14 | 2.68 | 2.13 | 3.19 | 3.98 | 0.00 | -0.1% |
| SC-155.01 | 10 min | 4357 | 0.45 | 0.43 | 0.03 | 0.43 | 0.43 | 0.35 | 0.29 | 0.22 | 0.35 | 0.43 | 0.00 | 0.4% |
| SC-155.02 | 10 min | 4354 | 1.25 | 1.23 | 0.08 | 1.25 | 1.25 | 0.99 | 0.82 | 0.65 | 0.99 | 1.25 | 0.00 | 0.2% |
| SC-156.01 | 10 min | 4363 | 0.48 | 0.48 | 0.04 | 0.49 | 0.51 | 0.35 | 0.30 | 0.24 | 0.36 | 0.51 | 0.02 | 3.8% |
| SC-157.01 | 10 min | 4368 | 0.56 | 0.57 | 0.04 | 0.57 | 0.59 | 0.42 | 0.36 | 0.30 | 0.42 | 0.59 | 0.02 | 3.8% |
| SC-158.01 | 10 min | 4363 | 0.74 | 0.75 | 0.06 | 0.77 | 0.80 | 0.54 | 0.44 | 0.37 | 0.53 | 0.80 | 0.03 | 4.3% |
| SC-158.02 | 10 min | 4368 | 0.96 | 0.98 | 0.07 | 0.98 | 1.02 | 0.72 | 0.59 | 0.48 | 0.71 | 1.02 | 0.04 | 3.7% |
| SC-158.03 | 10 min | 4361 | 2.09 | 2.11 | 0.14 | 2.13 | 2.14 | 1.61 | 1.34 | 1.07 | 1.61 | 2.14 | 0.01 | 0.7% |
| SC-158.04 | 10 min | 4365 | 3.90 | 3.94 | 0.30 | 3.96 | 4.07 | 3.00 | 2.51 | 2.01 | 2.99 | 4.07 | 0.11 | 2.9% |
| SC-159.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.61 | 0.63 | 0.43 | 0.36 | 0.29 | 0.42 | 0.63 | 0.02 | 4.0% |
| SC-16.01 | 10 min | 4363 | 0.71 | 0.72 | 0.06 | 0.73 | 0.77 | 0.51 | 0.42 | 0.35 | 0.50 | 0.77 | 0.04 | 4.9% |
| SC-160.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.59 | 0.62 | 0.41 | 0.34 | 0.29 | 0.40 | 0.62 | 0.03 | 4.6% |
| SC-160.02 | 10 min | 4365 | 1.30 | 1.31 | 0.09 | 1.32 | 1.36 | 0.99 | 0.82 | 0.66 | 0.98 | 1.36 | 0.04 | 3.0% |
| SC-161.01 | 10 min | 4363 | 0.69 | 0.71 | 0.06 | 0.72 | 0.75 | 0.50 | 0.41 | 0.35 | 0.49 | 0.75 | 0.03 | 4.8% |
| SC-161.02 | 10 min | 4368 | 1.33 | 1.36 | 0.10 | 1.36 | 1.41 | 1.00 | 0.83 | 0.68 | 0.99 | 1.41 | 0.05 | 3.6% |
| SC-162.01 | 10 min | 4363 | 0.82 | 0.84 | 0.07 | 0.84 | 0.88 | 0.61 | 0.52 | 0.42 | 0.61 | 0.88 | 0.04 | 4.3% |
| SC-163.01 | 10 min | 4364 | 0.48 | 0.47 | 0.04 | 0.47 | 0.46 | 0.40 | 0.33 | 0.26 | 0.40 | 0.46 | -0.01 | -3.0% |
| SC-163.02 | 10 min | 4357 | 0.93 | 0.90 | 0.07 | 0.90 | 0.89 | 0.76 | 0.63 | 0.49 | 0.76 | 0.89 | -0.01 | -0.9% |
| SC-163.03 | 10 min | 4354 | 1.50 | 1.46 | 0.10 | 1.48 | 1.48 | 1.22 | 1.01 | 0.80 | 1.22 | 1.48 | 0.00 | 0.0% |
| SC-163.04 | 10 min | 4354 | 2.08 | 2.08 | 0.14 | 2.11 | 2.11 | 1.66 | 1.39 | 1.10 | 1.67 | 2.11 | 0.00 | 0.0% |
| SC-163.05 | 10 min | 4354 | 3.59 | 3.60 | 0.24 | 3.65 | 3.65 | 2.88 | 2.41 | 1.91 | 2.90 | 3.65 | 0.00 | -0.1% |
| SC-164.01 | 10 min | 4365 | 0.71 | 0.72 | 0.06 | 0.72 | 0.75 | 0.53 | 0.46 | 0.37 | 0.54 | 0.75 | 0.03 | 3.8% |
| SC-165.01 | 10 min | 4368 | 0.61 | 0.62 | 0.05 | 0.62 | 0.65 | 0.45 | 0.39 | 0.32 | 0.46 | 0.65 | 0.03 | 4.1% |
| SC-165.02 | 10 min | 4363 | 1.57 | 1.60 | 0.13 | 1.60 | 1.67 | 1.18 | 1.01 | 0.82 | 1.19 | 1.67 | 0.07 | 4.6% |
| SC-165.03 | 10 min | 4365 | 2.04 | 2.08 | 0.16 | 2.09 | 2.15 | 1.54 | 1.34 | 1.08 | 1.57 | 2.15 | 0.06 | 3.0% |
| SC-165.04 | 10 min | 4365 | 4.42 | 4.46 | 0.27 | 4.46 | 4.56 | 3.50 | 2.92 | 2.31 | 3.45 | 4.56 | 0.10 | 2.3% |
| SC-165.05 | 10 min | 4361 | 7.42 | 7.47 | 0.44 | 7.50 | 7.59 | 5.94 | 5.02 | 3.92 | 5.94 | 7.59 | 0.09 | 1.2% |
| SC-166.01 | 10 min | 4368 | 0.55 | 0.56 | 0.04 | 0.56 | 0.58 | 0.41 | 0.35 | 0.29 | 0.41 | 0.58 | 0.02 | 4.0% |
| SC-167.01 | 10 min | 4363 | 0.82 | 0.84 | 0.07 | 0.85 | 0.89 | 0.60 | 0.49 | 0.41 | 0.58 | 0.89 | 0.04 | 4.4% |
| SC-167.02 | 10 min | 4365 | 2.11 | 2.13 | 0.16 | 2.15 | 2.21 | 1.58 | 1.31 | 1.06 | 1.56 | 2.21 | 0.06 | 2.7% |
| SC-168.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.70 | 0.73 | 0.49 | 0.41 | 0.34 | 0.49 | 0.73 | 0.03 | 3.6% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-169.01 | 10 min | 4368 | 0.61 | 0.62 | 0.05 | 0.63 | 0.64 | 0.46 | 0.39 | 0.32 | 0.46 | 0.64 | 0.01 | 2.3% |
| SC-169.02 | 10 min | 4365 | 1.15 | 1.16 | 0.08 | 1.16 | 1.19 | 0.88 | 0.77 | 0.62 | 0.91 | 1.19 | 0.03 | 2.9% |
| SC-169.03 | 10 min | 4368 | 2.55 | 2.60 | 0.20 | 2.62 | 2.70 | 1.92 | 1.69 | 1.36 | 1.98 | 2.70 | 0.08 | 2.9% |
| SC-17.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.64 | 0.67 | 0.45 | 0.37 | 0.31 | 0.44 | 0.67 | 0.03 | 4.7% |
| SC-17.02 | 10 min | 4365 | 1.08 | 1.09 | 0.08 | 1.10 | 1.13 | 0.82 | 0.67 | 0.55 | 0.81 | 1.13 | 0.03 | 2.9% |
| SC-17.03 | 10 min | 4361 | 1.82 | 1.84 | 0.13 | 1.84 | 1.89 | 1.39 | 1.15 | 0.92 | 1.37 | 1.89 | 0.05 | 2.6% |
| SC-17.04 | 10 min | 4354 | 4.36 | 4.31 | 0.31 | 4.38 | 4.38 | 3.37 | 2.77 | 2.19 | 3.31 | 4.38 | 0.00 | -0.1% |
| SC-17.05 | 10 min | 4354 | 6.02 | 5.93 | 0.38 | 6.01 | 6.01 | 4.76 | 3.87 | 3.02 | 4.66 | 6.01 | 0.00 | -0.1% |
| SC-17.06 | 10 min | 4354 | 6.79 | 6.69 | 0.38 | 6.75 | 6.75 | 5.51 | 4.47 | 3.47 | 5.36 | 6.75 | 0.00 | 0.0% |
| SC-17.07 | 10 min | 4354 | 7.22 | 7.20 | 0.32 | 7.26 | 7.26 | 6.02 | 4.88 | 3.69 | 5.81 | 7.26 | 0.00 | -0.1% |
| SC-170.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.57 | 0.60 | 0.41 | 0.35 | 0.28 | 0.41 | 0.60 | 0.03 | 5.0% |
| SC-171.01 | 10 min | 4363 | 0.39 | 0.40 | 0.03 | 0.41 | 0.43 | 0.27 | 0.23 | 0.20 | 0.26 | 0.43 | 0.02 | 5.2% |
| SC-172.01 | 10 min | 4363 | 0.78 | 0.79 | 0.07 | 0.82 | 0.86 | 0.56 | 0.47 | 0.40 | 0.53 | 0.86 | 0.04 | 4.6% |
| SC-172.02 | 10 min | 4363 | 1.35 | 1.38 | 0.11 | 1.38 | 1.44 | 0.99 | 0.82 | 0.69 | 0.97 | 1.44 | 0.06 | 4.1% |
| SC-173.01 | 20 min | 4433 | 0.89 | 0.88 | 0.07 | 0.89 | 0.57 | 0.87 | 0.84 | 0.67 | 0.94 | 0.94 | 0.05 | 5.1% |
| SC-173.02 | 20 min | 4433 | 1.83 | 1.77 | 0.20 | 1.79 | 1.45 | 1.74 | 1.59 | 1.28 | 1.79 | 1.79 | 0.00 | 0.2% |
| SC-173.03 | 20 min | 4371 | 1.85 | 1.82 | 0.20 | 1.85 | 1.61 | 1.75 | 1.70 | 1.35 | 1.91 | 1.91 | 0.06 | 3.1% |
| SC-173.04 | 10 min | 4354 | 3.03 | 3.03 | 0.19 | 3.07 | 3.07 | 2.77 | 2.56 | 2.05 | 2.89 | 3.07 | 0.00 | 0.1% |
| SC-173.05 | 10 min | 4363 | 3.52 | 3.54 | 0.15 | 3.58 | 3.67 | 3.17 | 2.98 | 2.32 | 3.35 | 3.67 | 0.09 | 2.6% |
| SC-174.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.53 | 0.55 | 0.35 | 0.30 | 0.25 | 0.35 | 0.55 | 0.02 | 3.4% |
| SC-175.01 | 10 min | 4363 | 0.88 | 0.90 | 0.08 | 0.92 | 0.95 | 0.64 | 0.53 | 0.44 | 0.63 | 0.95 | 0.03 | 3.6% |
| SC-175.02 | 10 min | 4368 | 1.81 | 1.85 | 0.14 | 1.86 | 1.92 | 1.37 | 1.13 | 0.91 | 1.35 | 1.92 | 0.06 | 3.0% |
| SC-175.03 | 10 min | 4365 | 2.93 | 2.97 | 0.23 | 2.99 | 3.08 | 2.24 | 1.86 | 1.49 | 2.22 | 3.08 | 0.09 | 2.9% |
| SC-175.04 | 10 min | 4365 | 3.58 | 3.65 | 0.27 | 3.67 | 3.77 | 2.86 | 2.38 | 1.90 | 2.83 | 3.77 | 0.10 | 2.8% |
| SC-175.05 | 10 min | 4368 | 4.06 | 4.11 | 0.20 | 4.12 | 4.21 | 3.33 | 2.70 | 2.12 | 3.25 | 4.21 | 0.09 | 2.1% |
| SC-176.01 | 10 min | 4354 | 0.38 | 0.37 | 0.02 | 0.38 | 0.38 | 0.35 | 0.29 | 0.23 | 0.35 | 0.38 | 0.00 | -0.1% |
| SC-177.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.53 | 0.36 | 0.29 | 0.25 | 0.34 | 0.53 | 0.02 | 4.5% |
| SC-177.02 | 10 min | 4354 | 1.33 | 1.32 | 0.10 | 1.34 | 1.34 | 1.01 | 0.83 | 0.66 | 0.99 | 1.34 | 0.00 | 0.0% |
| SC-177.03 | 10 min | 4361 | 3.60 | 3.63 | 0.25 | 3.68 | 3.69 | 2.79 | 2.33 | 1.86 | 2.78 | 3.69 | 0.01 | 0.3% |
| SC-177.04 | 10 min | 4361 | 4.94 | 4.99 | 0.35 | 5.02 | 5.10 | 3.86 | 3.18 | 2.53 | 3.82 | 5.10 | 0.08 | 1.6% |
| SC-178.01 | 10 min | 4363 | 1.08 | 1.10 | 0.09 | 1.12 | 1.16 | 0.80 | 0.66 | 0.54 | 0.79 | 1.16 | 0.04 | 3.8% |
| SC-178.02 | 10 min | 4361 | 1.64 | 1.66 | 0.12 | 1.66 | 1.71 | 1.25 | 1.05 | 0.84 | 1.25 | 1.71 | 0.05 | 2.9% |
| SC-179.01 | 10 min | 4363 | 0.88 | 0.89 | 0.08 | 0.91 | 0.95 | 0.64 | 0.52 | 0.44 | 0.63 | 0.95 | 0.04 | 4.6% |
| SC-18.01 | 10 min | 4363 | 0.69 | 0.70 | 0.05 | 0.71 | 0.73 | 0.50 | 0.41 | 0.34 | 0.49 | 0.73 | 0.02 | 3.4% |
| SC-18.02 | 10 min | 4354 | 1.10 | 1.09 | 0.08 | 1.11 | 1.11 | 0.84 | 0.69 | 0.54 | 0.82 | 1.11 | -0.01 | -0.5% |
| SC-180.01 | 10 min | 4363 | 0.85 | 0.87 | 0.07 | 0.88 | 0.92 | 0.63 | 0.52 | 0.43 | 0.62 | 0.92 | 0.04 | 4.6% |
| SC-180.02 | 10 min | 4365 | 1.47 | 1.49 | 0.10 | 1.49 | 1.53 | 1.15 | 0.97 | 0.79 | 1.17 | 1.53 | 0.04 | 2.9% |
| SC-180.03 | 10 min | 4365 | 2.07 | 2.09 | 0.15 | 2.09 | 2.15 | 1.60 | 1.37 | 1.10 | 1.63 | 2.15 | 0.06 | 3.1% |
| SC-180.04 | 10 min | 4365 | 2.98 | 3.01 | 0.23 | 3.02 | 3.11 | 2.29 | 1.95 | 1.58 | 2.32 | 3.11 | 0.09 | 3.1% |
| SC-181.01 | 20 min | 4371 | 0.39 | 0.38 | 0.05 | 0.38 | 0.34 | 0.37 | 0.30 | 0.24 | 0.37 | 0.37 | -0.01 | -2.7% |
| SC-181.02 | 10 min | 4354 | 1.25 | 1.23 | 0.09 | 1.25 | 1.25 | 1.02 | 0.86 | 0.69 | 1.04 | 1.25 | 0.00 | -0.1% |
| SC-181.03 | 10 min | 4361 | 2.02 | 2.04 | 0.15 | 2.04 | 2.11 | 1.63 | 1.38 | 1.10 | 1.64 | 2.11 | 0.06 | 3.2% |
| SC-181.04 | 10 min | 4361 | 3.72 | 3.75 | 0.24 | 3.79 | 3.81 | 3.16 | 2.67 | 2.12 | 3.19 | 3.81 | 0.02 | 0.6% |
| SC-181.05 | 10 min | 4363 | 4.08 | 4.08 | 0.14 | 4.08 | 4.21 | 3.58 | 2.95 | 2.30 | 3.50 | 4.21 | 0.13 | 3.1% |
| SC-181.06 | 10 min | 4363 | 4.50 | 4.51 | 0.14 | 4.55 | 4.65 | 3.96 | 3.25 | 2.50 | 3.83 | 4.65 | 0.10 | 2.3% |
| SC-181.07 | 10 min | 4354 | 10.09 | 9.99 | 0.31 | 10.03 | 10.03 | 8.75 | 7.03 | 5.31 | 8.53 | 10.03 | 0.00 | 0.0% |
| SC-181.08 | 10 min | 4354 | 10.42 | 10.37 | 0.24 | 10.40 | 10.40 | 9.12 | 7.28 | 5.48 | 8.80 | 10.40 | 0.00 | 0.0% |
| SC-182.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.65 | 0.45 | 0.37 | 0.31 | 0.45 | 0.65 | 0.03 | 4.3% |
| SC-182.02 | 10 min | 4361 | 0.98 | 0.99 | 0.07 | 1.00 | 1.01 | 0.77 | 0.64 | 0.51 | 0.77 | 1.01 | 0.01 | 1.1% |
| SC-182.03 | 10 min | 4354 | 1.59 | 1.54 | 0.11 | 1.56 | 1.56 | 1.40 | 1.17 | 0.93 | 1.41 | 1.56 | 0.00 | 0.1% |
| SC-183.01 | 10 min | 4354 | 0.59 | 0.58 | 0.04 | 0.59 | 0.59 | 0.50 | 0.42 | 0.33 | 0.51 | 0.59 | 0.00 | 0.5% |
| SC-183.02 | 10 min | 4361 | 1.32 | 1.33 | 0.09 | 1.34 | 1.36 | 1.06 | 0.89 | 0.72 | 1.07 | 1.36 | 0.02 | 1.3% |
| SC-183.03 | 10 min | 4361 | 3.27 | 3.29 | 0.19 | 3.32 | 3.34 | 2.65 | 2.20 | 1.74 | 2.65 | 3.34 | 0.02 | 0.6% |
| SC-183.04 | 10 min | 4365 | 3.75 | 3.78 | 0.18 | 3.79 | 3.85 | 3.14 | 2.55 | 1.97 | 3.06 | 3.85 | 0.06 | 1.6% |
| SC-184.01 | 10 min | 4363 | 1.40 | 1.43 | 0.11 | 1.43 | 1.49 | 1.06 | 0.90 | 0.73 | 1.07 | 1.49 | 0.06 | 4.5% |
| SC-185.01 | 10 min | 4363 | 0.82 | 0.84 | 0.07 | 0.86 | 0.89 | 0.60 | 0.49 | 0.41 | 0.59 | 0.89 | 0.03 | 3.9% |
| SC-185.02 | 10 min | 4365 | 1.85 | 1.88 | 0.14 | 1.89 | 1.95 | 1.40 | 1.15 | 0.93 | 1.38 | 1.95 | 0.06 | 3.0% |
| SC-186.01 | 10 min | 4363 | 0.29 | 0.30 | 0.02 | 0.30 | 0.31 | 0.21 | 0.19 | 0.15 | 0.22 | 0.31 | 0.01 | 4.2% |
| SC-187.01 | 10 min | 4363 | 0.83 | 0.85 | 0.07 | 0.87 | 0.90 | 0.60 | 0.49 | 0.42 | 0.59 | 0.90 | 0.03 | 3.6% |
| SC-187.02 | 10 min | 4368 | 1.63 | 1.66 | 0.13 | 1.67 | 1.73 | 1.24 | 1.03 | 0.83 | 1.23 | 1.73 | 0.06 | 3.4% |
| SC-187.03 | 10 min | 4363 | 1.91 | 1.93 | 0.13 | 1.97 | 2.04 | 1.51 | 1.24 | 0.99 | 1.47 | 2.04 | 0.07 | 3.5% |
| SC-187.04 | 10 min | 4366 | 2.48 | 2.43 | 0.09 | 2.46 | 2.59 | 2.04 | 1.65 | 1.23 | 1.92 | 2.59 | 0.13 | 5.3% |
| SC-187.05 | 10 min | 4356 | 2.93 | 2.92 | 0.08 | 2.93 | 3.01 | 2.45 | 1.98 | 1.41 | 2.27 | 3.01 | 0.08 | 2.7% |
| SC-188.01 | 10 min | 4363 | 0.88 | 0.89 | 0.07 | 0.91 | 0.95 | 0.64 | 0.52 | 0.44 | 0.62 | 0.95 | 0.04 | 4.2% |
| SC-188.02 | 10 min | 4365 | 1.31 | 1.33 | 0.10 | 1.33 | 1.37 | 0.99 | 0.81 | 0.66 | 0.97 | 1.37 | 0.04 | 2.9% |
| SC-189.01 | 10 min | 4363 | 0.99 | 1.01 | 0.09 | 1.03 | 1.08 | 0.72 | 0.59 | 0.50 | 0.70 | 1.08 | 0.05 | 4.5% |
| SC-189.02 | 10 min | 4363 | 1.78 | 1.81 | 0.15 | 1.83 | 1.90 | 1.33 | 1.13 | 0.92 | 1.33 | 1.90 | 0.07 | 4.0% |
| SC-19.01 | 10 min | 4354 | 0.43 | 0.41 | 0.03 | 0.41 | 0.41 | 0.33 | 0.27 | 0.21 | 0.32 | 0.41 | 0.00 | 0.9% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-190.01 | 10 min | 4363 | 0.44 | 0.45 | 0.04 | 0.45 | 0.47 | 0.31 | 0.26 | 0.22 | 0.30 | 0.47 | 0.02 | 4.2% |
| SC-191.01 | 10 min | 4363 | 0.80 | 0.81 | 0.07 | 0.83 | 0.86 | 0.58 | 0.47 | 0.40 | 0.56 | 0.86 | 0.03 | 3.9% |
| SC-191.02 | 10 min | 4365 | 1.16 | 1.18 | 0.09 | 1.19 | 1.22 | 0.87 | 0.72 | 0.58 | 0.86 | 1.22 | 0.03 | 2.4% |
| SC-191.03 | 10 min | 4361 | 2.15 | 2.17 | 0.15 | 2.18 | 2.22 | 1.65 | 1.37 | 1.10 | 1.65 | 2.22 | 0.04 | 2.0% |
| SC-191.04 | 10 min | 4361 | 3.14 | 3.18 | 0.23 | 3.18 | 3.26 | 2.42 | 2.01 | 1.61 | 2.41 | 3.26 | 0.08 | 2.6% |
| SC-191.05 | 10 min | 4361 | 4.37 | 4.41 | 0.28 | 4.45 | 4.47 | 3.46 | 2.85 | 2.24 | 3.43 | 4.47 | 0.02 | 0.5% |
| SC-191.06 | 10 min | 4354 | 7.51 | 7.55 | 0.45 | 7.65 | 7.65 | 6.21 | 5.33 | 4.23 | 6.29 | 7.65 | 0.00 | 0.0% |
| SC-191.07 | 10 min | 4354 | 9.11 | 9.02 | 0.49 | 9.11 | 9.11 | 7.82 | 6.57 | 5.10 | 7.83 | 9.11 | 0.00 | 0.0% |
| SC-191.08 | 10 min | 4363 | 9.83 | 9.92 | 0.47 | 9.97 | 10.18 | 8.88 | 7.46 | 5.72 | 8.85 | 10.18 | 0.21 | 2.1% |
| SC-192.01 | 10 min | 4365 | 2.53 | 2.57 | 0.20 | 2.59 | 2.67 | 1.91 | 1.65 | 1.35 | 1.95 | 2.67 | 0.08 | 3.2% |
| SC-193.01 | 10 min | 4365 | 1.16 | 1.17 | 0.09 | 1.18 | 1.22 | 0.91 | 0.78 | 0.63 | 0.93 | 1.22 | 0.04 | 3.1% |
| SC-194.01 | 10 min | 4354 | 1.19 | 1.16 | 0.08 | 1.18 | 1.18 | 1.06 | 0.88 | 0.70 | 1.07 | 1.18 | 0.00 | -0.1% |
| SC-194.02 | 20 min | 4429 | 4.81 | 4.74 | 0.43 | 4.77 | 3.32 | 4.77 | 4.16 | 3.32 | 4.80 | 4.80 | 0.03 | 0.6% |
| SC-194.03 | 20 min | 4429 | 5.05 | 4.91 | 0.38 | 4.95 | 3.88 | 4.95 | 4.77 | 3.74 | 5.47 | 5.47 | 0.52 | 10.5% |
| SC-195.01 | 20 min | 4433 | 1.67 | 1.66 | 0.13 | 1.67 | 1.09 | 1.67 | 1.39 | 1.11 | 1.63 | 1.67 | 0.00 | 0.1% |
| SC-196.01 | 10 min | 4361 | 3.80 | 3.83 | 0.26 | 3.86 | 3.91 | 3.22 | 2.77 | 2.23 | 3.28 | 3.91 | 0.05 | 1.3% |
| SC-197.01 | 10 min | 4354 | 2.53 | 2.46 | 0.17 | 2.47 | 2.47 | 2.23 | 1.83 | 1.45 | 2.24 | 2.47 | 0.00 | 0.1% |
| SC-198.01 | 20 min | 4399 | 2.47 | 2.39 | 0.27 | 2.40 | 1.94 | 2.48 | 1.85 | 1.40 | 2.35 | 2.48 | 0.08 | 3.3% |
| SC-2.01 | 10 min | 4354 | 0.55 | 0.53 | 0.04 | 0.53 | 0.53 | 0.47 | 0.38 | 0.30 | 0.47 | 0.53 | 0.00 | 0.3% |
| SC-20.01 | 10 min | 4363 | 0.54 | 0.55 | 0.04 | 0.56 | 0.58 | 0.39 | 0.32 | 0.27 | 0.38 | 0.58 | 0.02 | 3.5% |
| SC-200.01 | 10 min | 4365 | 0.78 | 0.80 | 0.06 | 0.80 | 0.83 | 0.59 | 0.51 | 0.41 | 0.60 | 0.83 | 0.03 | 3.1% |
| SC-200.02 | 10 min | 4363 | 1.38 | 1.40 | 0.11 | 1.41 | 1.47 | 1.04 | 0.93 | 0.76 | 1.08 | 1.47 | 0.06 | 4.0% |
| SC-200.03 | 10 min | 4361 | 2.58 | 2.61 | 0.19 | 2.63 | 2.67 | 2.03 | 1.80 | 1.45 | 2.10 | 2.67 | 0.04 | 1.4% |
| SC-200.04 | 10 min | 4354 | 3.84 | 3.78 | 0.27 | 3.84 | 3.84 | 3.06 | 2.66 | 2.11 | 3.14 | 3.84 | 0.00 | -0.1% |
| SC-200.05 | 10 min | 4354 | 6.19 | 6.21 | 0.37 | 6.29 | 6.29 | 4.94 | 4.19 | 3.31 | 4.94 | 6.29 | 0.00 | 0.0% |
| SC-200.06 | 10 min | 4364 | 9.60 | 9.44 | 0.69 | 9.51 | 9.12 | 8.29 | 6.86 | 5.25 | 8.24 | 9.12 | -0.40 | -4.2% |
| SC-200.07 | 10 min | 4364 | 11.19 | 11.08 | 0.80 | 11.17 | 10.56 | 9.97 | 8.15 | 6.18 | 9.86 | 10.56 | -0.61 | -5.5% |
| SC-200.08 | 10 min | 4364 | 12.78 | 12.50 | 0.73 | 12.58 | 12.31 | 11.72 | 9.47 | 7.12 | 11.42 | 12.31 | -0.27 | -2.1% |
| SC-200.09 | 15 min | 4401 | 18.71 | 18.35 | 1.59 | 18.58 | 18.59 | 17.80 | 14.16 | 10.26 | 16.86 | 18.59 | 0.01 | 0.1% |
| SC-201.01 | 10 min | 4363 | 0.98 | 1.00 | 0.09 | 1.02 | 1.07 | 0.71 | 0.59 | 0.49 | 0.70 | 1.07 | 0.05 | 4.6% |
| SC-202.01 | 10 min | 4363 | 1.00 | 1.01 | 0.09 | 1.05 | 1.10 | 0.70 | 0.59 | 0.50 | 0.68 | 1.10 | 0.04 | 4.3% |
| SC-203.01 | 10 min | 4363 | 1.02 | 1.04 | 0.08 | 1.04 | 1.08 | 0.76 | 0.62 | 0.51 | 0.74 | 1.08 | 0.04 | 3.7% |
| SC-204.01 | 10 min | 4364 | 1.36 | 1.34 | 0.13 | 1.36 | 1.27 | 1.11 | 0.92 | 0.71 | 1.10 | 1.27 | -0.10 | -7.0% |
| SC-205.01 | 20 min | 4433 | 0.57 | 0.54 | 0.07 | 0.55 | 0.46 | 0.56 | 0.43 | 0.34 | 0.54 | 0.56 | 0.01 | 1.0% |
| SC-206.01 | 10 min | 4364 | 4.28 | 4.35 | 0.39 | 4.38 | 3.84 | 3.75 | 3.06 | 2.24 | 3.74 | 3.84 | -0.54 | -12.4% |
| SC-207.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.98 | 1.02 | 0.70 | 0.59 | 0.49 | 0.70 | 1.02 | 0.04 | 4.0% |
| SC-207.02 | 10 min | 4361 | 1.87 | 1.89 | 0.14 | 1.89 | 1.94 | 1.43 | 1.20 | 0.97 | 1.42 | 1.94 | 0.05 | 2.7% |
| SC-207.03 | 10 min | 4361 | 2.07 | 2.08 | 0.15 | 2.11 | 2.13 | 1.64 | 1.37 | 1.09 | 1.64 | 2.13 | 0.02 | 0.8% |
| SC-207.04 | 10 min | 4354 | 5.77 | 5.72 | 0.25 | 5.77 | 5.77 | 4.79 | 3.89 | 3.00 | 4.69 | 5.77 | 0.00 | 0.1% |
| SC-207.05 | 10 min | 4354 | 7.72 | 7.60 | 0.28 | 7.61 | 7.61 | 6.53 | 5.25 | 3.95 | 6.35 | 7.61 | 0.00 | 0.0% |
| SC-207.06 | 10 min | 4364 | 8.36 | 8.32 | 0.18 | 8.34 | 8.25 | 7.16 | 5.73 | 4.24 | 6.86 | 8.25 | -0.09 | -1.1% |
| SC-207.07 | 10 min | 4364 | 13.87 | 13.90 | 0.75 | 13.97 | 13.10 | 12.59 | 10.28 | 7.58 | 12.49 | 13.10 | -0.87 | -6.2% |
| SC-207.08 | 10 min | 4364 | 20.96 | 20.69 | 0.63 | 20.74 | 20.59 | 18.96 | 15.43 | 11.48 | 18.59 | 20.59 | -0.15 | -0.7% |
| SC-207.09 | 10 min | 4354 | 23.92 | 23.75 | 0.55 | 23.77 | 23.77 | 22.11 | 17.97 | 13.21 | 21.68 | 23.77 | 0.00 | 0.0% |
| SC-207.10 | 15 min | 4401 | 24.57 | 24.50 | 1.30 | 24.60 | 24.31 | 22.80 | 18.77 | 13.76 | 22.58 | 24.31 | -0.29 | -1.2% |
| SC-207.11 | 15 min | 4393 | 26.49 | 26.57 | 0.94 | 26.60 | 25.88 | 24.55 | 20.41 | 14.95 | 24.56 | 25.88 | -0.73 | -2.7% |
| SC-207.12 | 15 min | 4358 | 38.13 | 38.13 | 1.94 | 38.54 | 37.65 | 35.46 | 29.14 | 21.23 | 34.91 | 37.65 | -0.89 | -2.3% |
| SC-207.13 | 15 min | 4358 | 40.20 | 40.29 | 1.75 | 40.73 | 39.42 | 37.64 | 30.92 | 22.72 | 37.25 | 39.42 | -1.31 | -3.2% |
| SC-207.14 | 15 min | 4358 | 41.56 | 41.72 | 1.43 | 41.81 | 40.39 | 38.83 | 31.97 | 23.76 | 38.75 | 40.39 | -1.42 | -3.4% |
| SC-208.01 | 10 min | 4363 | 1.02 | 1.03 | 0.09 | 1.08 | 1.12 | 0.72 | 0.60 | 0.52 | 0.69 | 1.12 | 0.04 | 3.8% |
| SC-208.02 | 10 min | 4363 | 1.46 | 1.49 | 0.12 | 1.51 | 1.57 | 1.07 | 0.88 | 0.75 | 1.04 | 1.57 | 0.06 | 4.0% |
| SC-208.03 | 10 min | 4363 | 1.95 | 1.99 | 0.16 | 2.00 | 2.09 | 1.46 | 1.20 | 1.00 | 1.43 | 2.09 | 0.09 | 4.4% |
| SC-208.04 | 10 min | 4365 | 3.08 | 3.11 | 0.18 | 3.12 | 3.18 | 2.41 | 1.96 | 1.54 | 2.37 | 3.18 | 0.06 | 2.0% |
| SC-208.05 | 10 min | 4365 | 3.54 | 3.56 | 0.12 | 3.57 | 3.61 | 2.88 | 2.32 | 1.77 | 2.78 | 3.61 | 0.04 | 1.1% |
| SC-209.01 | 10 min | 4363 | 0.64 | 0.66 | 0.05 | 0.66 | 0.69 | 0.47 | 0.41 | 0.34 | 0.48 | 0.69 | 0.03 | 4.7% |
| SC-21.01 | 10 min | 4363 | 0.77 | 0.79 | 0.06 | 0.80 | 0.83 | 0.56 | 0.46 | 0.39 | 0.54 | 0.83 | 0.03 | 4.3% |
| SC-210.01 | 10 min | 4363 | 1.44 | 1.47 | 0.13 | 1.49 | 1.56 | 1.05 | 0.87 | 0.72 | 1.04 | 1.56 | 0.07 | 4.5% |
| SC-210.02 | 10 min | 4368 | 1.99 | 2.03 | 0.15 | 2.04 | 2.11 | 1.51 | 1.25 | 1.01 | 1.50 | 2.11 | 0.07 | 3.3% |
| SC-211.01 | 20 min | 4429 | 0.57 | 0.56 | 0.05 | 0.56 | 0.39 | 0.56 | 0.48 | 0.38 | 0.55 | 0.56 | 0.00 | 0.4% |
| SC-211.02 | 25 min | 4462 | 1.22 | 1.23 | 0.10 | 1.25 | 0.74 | 1.19 | 1.13 | 0.89 | 1.31 | 1.31 | 0.06 | 4.6% |
| SC-211.03 | 20 min | 4433 | 1.95 | 1.92 | 0.14 | 1.92 | 1.36 | 1.95 | 1.85 | 1.44 | 2.10 | 2.10 | 0.18 | 9.4% |
| SC-211.04 | 20 min | 4399 | 2.31 | 2.28 | 0.18 | 2.29 | 1.81 | 2.35 | 2.19 | 1.68 | 2.49 | 2.49 | 0.20 | 8.6% |
| SC-212.01 | 1 hour | 4405 | 0.20 | 0.21 | 0.02 | 0.21 | 0.11 | 0.16 | 0.22 | 0.20 | 0.22 | 0.22 | 0.01 | 5.1% |
| SC-212.02 | 20 min | 4433 | 0.43 | 0.42 | 0.04 | 0.43 | 0.31 | 0.43 | 0.42 | 0.34 | 0.46 | 0.46 | 0.03 | 6.4% |
| SC-213.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.62 | 0.64 | 0.42 | 0.35 | 0.30 | 0.41 | 0.64 | 0.02 | 3.5% |
| SC-213.02 | 10 min | 4363 | 1.00 | 1.02 | 0.08 | 1.02 | 1.06 | 0.74 | 0.61 | 0.50 | 0.72 | 1.06 | 0.04 | 4.1% |
| SC-214.01 | 10 min | 4363 | 0.73 | 0.75 | 0.06 | 0.76 | 0.79 | 0.53 | 0.44 | 0.37 | 0.52 | 0.79 | 0.03 | 3.6% |
| SC-214.02 | 10 min | 4363 | 1.58 | 1.61 | 0.13 | 1.64 | 1.71 | 1.14 | 0.94 | 0.79 | 1.11 | 1.71 | 0.07 | 4.0% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-215.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.60 | 0.63 | 0.44 | 0.37 | 0.30 | 0.44 | 0.63 | 0.03 | 5.1% |
| SC-215.02 | 10 min | 4361 | 1.07 | 1.08 | 0.08 | 1.08 | 1.11 | 0.81 | 0.69 | 0.55 | 0.82 | 1.11 | 0.03 | 2.8% |
| SC-216.01 | 10 min | 4363 | 0.55 | 0.55 | 0.05 | 0.58 | 0.60 | 0.38 | 0.32 | 0.28 | 0.37 | 0.60 | 0.02 | 3.3% |
| SC-216.02 | 10 min | 4363 | 1.66 | 1.69 | 0.14 | 1.73 | 1.80 | 1.19 | 1.00 | 0.86 | 1.15 | 1.80 | 0.07 | 4.0% |
| SC-216.03 | 10 min | 4363 | 2.63 | 2.69 | 0.22 | 2.69 | 2.81 | 1.96 | 1.62 | 1.35 | 1.91 | 2.81 | 0.12 | 4.3% |
| SC-216.04 | 10 min | 4366 | 3.68 | 3.65 | 0.19 | 3.73 | 3.92 | 2.97 | 2.44 | 1.85 | 2.79 | 3.92 | 0.19 | 5.2% |
| SC-217.01 | 10 min | 4363 | 0.39 | 0.39 | 0.03 | 0.41 | 0.42 | 0.27 | 0.23 | 0.20 | 0.26 | 0.42 | 0.01 | 3.6% |
| SC-218.01 | 10 min | 4363 | 0.30 | 0.30 | 0.03 | 0.31 | 0.32 | 0.21 | 0.18 | 0.15 | 0.20 | 0.32 | 0.01 | 4.6% |
| SC-219.01 | 10 min | 4363 | 0.39 | 0.39 | 0.03 | 0.41 | 0.42 | 0.28 | 0.23 | 0.20 | 0.27 | 0.42 | 0.01 | 3.6% |
| SC-22.01 | 10 min | 4363 | 0.43 | 0.44 | 0.04 | 0.45 | 0.46 | 0.31 | 0.26 | 0.22 | 0.30 | 0.46 | 0.01 | 3.0% |
| SC-220.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.63 | 0.65 | 0.44 | 0.36 | 0.30 | 0.43 | 0.65 | 0.02 | 3.6% |
| SC-221.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.58 | 0.60 | 0.40 | 0.33 | 0.28 | 0.39 | 0.60 | 0.02 | 3.7% |
| SC-221.02 | 10 min | 4354 | 1.21 | 1.22 | 0.09 | 1.23 | 1.23 | 0.93 | 0.76 | 0.61 | 0.91 | 1.23 | 0.00 | 0.2% |
| SC-221.03 | 10 min | 4361 | 1.49 | 1.50 | 0.10 | 1.51 | 1.54 | 1.15 | 0.94 | 0.76 | 1.13 | 1.54 | 0.03 | 1.9% |
| SC-221.04 | 10 min | 4361 | 2.18 | 2.20 | 0.16 | 2.21 | 2.26 | 1.68 | 1.39 | 1.12 | 1.66 | 2.26 | 0.05 | 2.2% |
| SC-221.05 | 10 min | 4354 | 2.81 | 2.83 | 0.18 | 2.86 | 2.86 | 2.23 | 1.82 | 1.43 | 2.20 | 2.86 | 0.00 | -0.1% |
| SC-221.06 | 10 min | 4361 | 2.96 | 2.97 | 0.17 | 2.99 | 3.02 | 2.40 | 1.95 | 1.53 | 2.35 | 3.02 | 0.03 | 0.9% |
| SC-222.01 | 10 min | 4363 | 0.60 | 0.62 | 0.05 | 0.63 | 0.65 | 0.45 | 0.37 | 0.30 | 0.44 | 0.65 | 0.02 | 3.8% |
| SC-222.02 | 10 min | 4365 | 0.97 | 0.98 | 0.07 | 0.98 | 1.01 | 0.74 | 0.61 | 0.49 | 0.73 | 1.01 | 0.03 | 3.0% |
| SC-222.03 | 10 min | 4364 | 2.19 | 2.15 | 0.22 | 2.17 | 2.03 | 1.80 | 1.49 | 1.16 | 1.79 | 2.03 | -0.14 | -6.4% |
| SC-223.01 | 10 min | 4363 | 0.26 | 0.26 | 0.02 | 0.27 | 0.28 | 0.19 | 0.15 | 0.13 | 0.18 | 0.28 | 0.01 | 3.0% |
| SC-224.01 | 15 min | 4401 | 0.74 | 0.70 | 0.11 | 0.71 | 0.66 | 0.71 | 0.56 | 0.39 | 0.68 | 0.71 | 0.00 | -0.6% |
| SC-225.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.50 | 0.52 | 0.35 | 0.29 | 0.24 | 0.35 | 0.52 | 0.02 | 3.5% |
| SC-226.01 | 10 min | 4363 | 0.35 | 0.36 | 0.03 | 0.37 | 0.39 | 0.25 | 0.21 | 0.18 | 0.24 | 0.39 | 0.02 | 4.4% |
| SC-226.02 | 10 min | 4354 | 0.83 | 0.84 | 0.06 | 0.85 | 0.85 | 0.63 | 0.52 | 0.42 | 0.61 | 0.85 | 0.00 | 0.3% |
| SC-226.03 | 10 min | 4354 | 1.73 | 1.72 | 0.12 | 1.75 | 1.75 | 1.34 | 1.10 | 0.88 | 1.32 | 1.75 | 0.00 | -0.3% |
| SC-226.04 | 10 min | 4361 | 2.59 | 2.62 | 0.18 | 2.63 | 2.67 | 2.02 | 1.67 | 1.33 | 2.00 | 2.67 | 0.04 | 1.6% |
| SC-226.05 | 10 min | 4361 | 10.31 | 10.38 | 0.69 | 10.48 | 10.58 | 8.25 | 6.86 | 5.45 | 8.19 | 10.58 | 0.10 | 1.0% |
| SC-226.06 | 10 min | 4365 | 11.38 | 11.39 | 0.55 | 11.44 | 11.70 | 9.35 | 7.63 | 5.97 | 9.13 | 11.70 | 0.26 | 2.2% |
| SC-226.07 | 10 min | 4363 | 12.33 | 12.33 | 0.44 | 12.46 | 12.79 | 10.45 | 8.41 | 6.50 | 9.97 | 12.79 | 0.33 | 2.7% |
| SC-226.08 | 10 min | 4363 | 12.87 | 12.88 | 0.46 | 13.12 | 13.42 | 11.02 | 8.86 | 6.78 | 10.48 | 13.42 | 0.30 | 2.3% |
| SC-227.01 | 10 min | 4363 | 0.19 | 0.19 | 0.02 | 0.19 | 0.20 | 0.13 | 0.11 | 0.09 | 0.13 | 0.20 | 0.01 | 5.7% |
| SC-228.01 | 10 min | 4363 | 0.40 | 0.40 | 0.03 | 0.41 | 0.43 | 0.29 | 0.24 | 0.20 | 0.28 | 0.43 | 0.02 | 4.4% |
| SC-229.01 | 10 min | 4363 | 0.28 | 0.28 | 0.02 | 0.29 | 0.30 | 0.20 | 0.17 | 0.14 | 0.20 | 0.30 | 0.01 | 3.4% |
| SC-23.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.59 | 0.61 | 0.41 | 0.34 | 0.29 | 0.39 | 0.61 | 0.02 | 3.5% |
| SC-23.02 | 10 min | 4354 | 1.69 | 1.68 | 0.12 | 1.71 | 1.71 | 1.28 | 1.06 | 0.84 | 1.25 | 1.71 | 0.00 | -0.3% |
| SC-23.03 | 10 min | 4354 | 2.08 | 2.06 | 0.14 | 2.09 | 2.09 | 1.62 | 1.32 | 1.05 | 1.59 | 2.09 | 0.00 | 0.1% |
| SC-230.01 | 10 min | 4363 | 0.27 | 0.28 | 0.02 | 0.28 | 0.29 | 0.20 | 0.17 | 0.14 | 0.20 | 0.29 | 0.01 | 5.1% |
| SC-231.01 | 10 min | 4363 | 0.30 | 0.31 | 0.03 | 0.31 | 0.33 | 0.23 | 0.19 | 0.15 | 0.22 | 0.33 | 0.02 | 5.9% |
| SC-232.01 | 10 min | 4363 | 0.76 | 0.77 | 0.06 | 0.77 | 0.81 | 0.56 | 0.48 | 0.40 | 0.57 | 0.81 | 0.04 | 4.6% |
| SC-232.02 | 10 min | 4365 | 1.20 | 1.22 | 0.09 | 1.22 | 1.26 | 0.91 | 0.77 | 0.62 | 0.91 | 1.26 | 0.04 | 3.1% |
| SC-232.03 | 10 min | 4361 | 2.79 | 2.82 | 0.20 | 2.85 | 2.87 | 2.15 | 1.80 | 1.44 | 2.14 | 2.87 | 0.02 | 0.7% |
| SC-233.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.56 | 0.58 | 0.39 | 0.32 | 0.27 | 0.38 | 0.58 | 0.02 | 3.6% |
| SC-233.02 | 10 min | 4361 | 0.89 | 0.90 | 0.06 | 0.90 | 0.92 | 0.68 | 0.56 | 0.45 | 0.67 | 0.92 | 0.02 | 2.1% |
| SC-234.01 | 10 min | 4363 | 0.77 | 0.79 | 0.07 | 0.80 | 0.84 | 0.57 | 0.47 | 0.39 | 0.56 | 0.84 | 0.04 | 4.6% |
| SC-234.02 | 10 min | 4361 | 1.50 | 1.52 | 0.10 | 1.53 | 1.55 | 1.16 | 0.96 | 0.77 | 1.15 | 1.55 | 0.01 | 1.0% |
| SC-234.03 | 10 min | 4354 | 4.43 | 4.44 | 0.30 | 4.50 | 4.50 | 3.52 | 2.95 | 2.36 | 3.54 | 4.50 | 0.00 | 0.0% |
| SC-235.01 | 10 min | 4363 | 0.28 | 0.29 | 0.02 | 0.30 | 0.31 | 0.20 | 0.17 | 0.14 | 0.19 | 0.31 | 0.01 | 3.8% |
| SC-236.01 | 10 min | 4363 | 0.36 | 0.37 | 0.03 | 0.38 | 0.39 | 0.26 | 0.21 | 0.18 | 0.25 | 0.39 | 0.01 | 3.8% |
| SC-236.02 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.58 | 0.60 | 0.41 | 0.34 | 0.28 | 0.40 | 0.60 | 0.02 | 3.9% |
| SC-237.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.53 | 0.36 | 0.30 | 0.25 | 0.36 | 0.53 | 0.02 | 3.5% |
| SC-237.02 | 10 min | 4364 | 1.06 | 1.03 | 0.08 | 1.04 | 1.02 | 0.95 | 0.78 | 0.62 | 0.95 | 1.02 | -0.02 | -2.0% |
| SC-238.01 | 10 min | 4363 | 0.32 | 0.32 | 0.03 | 0.33 | 0.35 | 0.23 | 0.19 | 0.16 | 0.22 | 0.35 | 0.02 | 4.8% |
| SC-238.02 | 10 min | 4361 | 0.73 | 0.74 | 0.05 | 0.75 | 0.76 | 0.56 | 0.46 | 0.37 | 0.55 | 0.76 | 0.01 | 0.8% |
| SC-239.01 | 10 min | 4363 | 0.41 | 0.42 | 0.03 | 0.42 | 0.44 | 0.30 | 0.25 | 0.21 | 0.29 | 0.44 | 0.02 | 4.9% |
| SC-24.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.53 | 0.36 | 0.29 | 0.25 | 0.35 | 0.53 | 0.02 | 4.5% |
| SC-240.01 | 20 min | 4433 | 1.10 | 1.09 | 0.10 | 1.10 | 0.75 | 1.10 | 0.88 | 0.70 | 1.06 | 1.10 | 0.00 | -0.3% |
| SC-240.02 | 20 min | 4429 | 1.61 | 1.55 | 0.15 | 1.56 | 1.22 | 1.56 | 1.33 | 1.04 | 1.57 | 1.57 | 0.01 | 0.5% |
| SC-241.01 | 15 min | 4401 | 4.78 | 4.46 | 0.80 | 4.53 | 4.37 | 4.40 | 3.58 | 2.47 | 4.32 | 4.40 | -0.13 | -2.9% |
| SC-242.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.59 | 0.61 | 0.42 | 0.36 | 0.30 | 0.43 | 0.61 | 0.02 | 3.6% |
| SC-242.02 | 10 min | 4365 | 1.48 | 1.49 | 0.11 | 1.50 | 1.54 | 1.12 | 0.96 | 0.77 | 1.14 | 1.54 | 0.04 | 2.7% |
| SC-242.03 | 10 min | 4361 | 2.20 | 2.22 | 0.16 | 2.22 | 2.28 | 1.67 | 1.43 | 1.15 | 1.69 | 2.28 | 0.06 | 2.8% |
| SC-242.04 | 10 min | 4361 | 2.33 | 2.36 | 0.18 | 2.36 | 2.43 | 1.79 | 1.53 | 1.22 | 1.80 | 2.43 | 0.07 | 3.0% |
| SC-242.05 | 10 min | 4354 | 5.18 | 5.17 | 0.33 | 5.23 | 5.23 | 4.05 | 3.37 | 2.63 | 4.03 | 5.23 | 0.00 | 0.1% |
| SC-242.06 | 10 min | 4354 | 6.81 | 6.63 | 0.42 | 6.67 | 6.67 | 5.47 | 4.48 | 3.45 | 5.43 | 6.67 | 0.00 | 0.0% |
| SC-242.07 | 10 min | 4354 | 7.35 | 7.13 | 0.45 | 7.14 | 7.14 | 6.02 | 4.92 | 3.75 | 5.94 | 7.14 | 0.00 | -0.1% |
| SC-242.08 | 10 min | 4364 | 14.14 | 14.00 | 0.74 | 14.04 | 13.44 | 12.32 | 10.04 | 7.30 | 11.95 | 13.44 | -0.60 | -4.3% |
| SC-243.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.56 | 0.58 | 0.38 | 0.32 | 0.27 | 0.38 | 0.58 | 0.02 | 4.4% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-243.02 | 10 min | 4368 | 1.98 | 2.02 | 0.15 | 2.04 | 2.10 | 1.49 | 1.23 | 1.00 | 1.47 | 2.10 | 0.06 | 2.7% |
| SC-244.01 | 10 min | 4363 | 0.76 | 0.77 | 0.07 | 0.79 | 0.83 | 0.54 | 0.45 | 0.38 | 0.53 | 0.83 | 0.04 | 4.5% |
| SC-245.01 | 10 min | 4363 | 0.40 | 0.41 | 0.03 | 0.42 | 0.43 | 0.29 | 0.24 | 0.20 | 0.28 | 0.43 | 0.01 | 3.1% |
| SC-246.01 | 10 min | 4363 | 0.27 | 0.27 | 0.02 | 0.28 | 0.29 | 0.20 | 0.17 | 0.14 | 0.20 | 0.29 | 0.01 | 3.5% |
| SC-246.02 | 10 min | 4364 | 0.73 | 0.71 | 0.07 | 0.72 | 0.68 | 0.59 | 0.49 | 0.38 | 0.58 | 0.68 | -0.04 | -5.2% |
| SC-247.01 | 10 min | 4354 | 0.74 | 0.74 | 0.05 | 0.75 | 0.75 | 0.56 | 0.46 | 0.37 | 0.55 | 0.75 | 0.00 | -0.1% |
| SC-247.02 | 10 min | 4364 | 1.84 | 1.87 | 0.20 | 1.89 | 1.61 | 1.56 | 1.27 | 0.95 | 1.56 | 1.61 | -0.28 | -14.7% |
| SC-248.01 | 10 min | 4364 | 0.92 | 0.93 | 0.08 | 0.94 | 0.82 | 0.78 | 0.64 | 0.45 | 0.78 | 0.82 | -0.12 | -12.3% |
| SC-249.01 | 20 min | 4433 | 0.22 | 0.22 | 0.02 | 0.22 | 0.15 | 0.22 | 0.17 | 0.13 | 0.21 | 0.22 | 0.00 | -1.0% |
| SC-249.02 | 20 min | 4371 | 0.65 | 0.63 | 0.09 | 0.63 | 0.57 | 0.61 | 0.51 | 0.40 | 0.61 | 0.61 | -0.02 | -3.5% |
| SC-249.03 | 10 min | 4357 | 1.33 | 1.29 | 0.10 | 1.29 | 1.29 | 1.17 | 0.99 | 0.78 | 1.18 | 1.29 | 0.00 | -0.1% |
| SC-249.04 | 10 min | 4354 | 3.27 | 3.21 | 0.21 | 3.25 | 3.25 | 2.73 | 2.32 | 1.83 | 2.77 | 3.25 | 0.00 | 0.1% |
| SC-249.05 | 10 min | 4354 | 9.70 | 9.41 | 0.64 | 9.49 | 9.49 | 7.99 | 6.66 | 5.18 | 8.04 | 9.49 | 0.00 | 0.0% |
| SC-249.06 | 10 min | 4364 | 16.08 | 16.03 | 0.80 | 16.08 | 15.27 | 15.01 | 11.91 | 8.89 | 14.55 | 15.27 | -0.81 | -5.0% |
| SC-25.01 | 10 min | 4363 | 1.50 | 1.52 | 0.13 | 1.56 | 1.63 | 1.08 | 0.89 | 0.75 | 1.05 | 1.63 | 0.07 | 4.3% |
| SC-25.02 | 10 min | 4365 | 2.15 | 2.17 | 0.16 | 2.19 | 2.25 | 1.61 | 1.32 | 1.08 | 1.58 | 2.25 | 0.06 | 2.6% |
| SC-25.03 | 10 min | 4368 | 2.34 | 2.38 | 0.18 | 2.38 | 2.48 | 1.78 | 1.46 | 1.18 | 1.75 | 2.48 | 0.10 | 4.0% |
| SC-25.04 | 10 min | 4361 | 3.94 | 3.98 | 0.29 | 4.00 | 4.09 | 3.05 | 2.52 | 2.02 | 3.02 | 4.09 | 0.09 | 2.2% |
| SC-250.01 | 10 min | 4363 | 0.17 | 0.18 | 0.01 | 0.18 | 0.18 | 0.12 | 0.11 | 0.09 | 0.12 | 0.18 | 0.00 | 2.1% |
| SC-251.01 | 10 min | 4363 | 0.42 | 0.43 | 0.04 | 0.43 | 0.45 | 0.31 | 0.26 | 0.21 | 0.31 | 0.45 | 0.02 | 4.2% |
| SC-252.01 | 10 min | 4365 | 0.49 | 0.49 | 0.03 | 0.49 | 0.51 | 0.39 | 0.33 | 0.27 | 0.40 | 0.51 | 0.02 | 3.9% |
| SC-252.02 | 10 min | 4368 | 0.91 | 0.92 | 0.07 | 0.92 | 0.96 | 0.69 | 0.59 | 0.48 | 0.70 | 0.96 | 0.04 | 4.5% |
| SC-253.01 | 10 min | 4363 | 0.71 | 0.72 | 0.06 | 0.74 | 0.77 | 0.52 | 0.43 | 0.36 | 0.51 | 0.77 | 0.03 | 4.4% |
| SC-253.02 | 10 min | 4365 | 2.59 | 2.63 | 0.19 | 2.64 | 2.72 | 1.96 | 1.64 | 1.33 | 1.97 | 2.72 | 0.08 | 3.0% |
| SC-253.03 | 10 min | 4365 | 3.14 | 3.21 | 0.25 | 3.23 | 3.32 | 2.40 | 2.02 | 1.64 | 2.40 | 3.32 | 0.09 | 2.9% |
| SC-254.01 | 10 min | 4363 | 0.72 | 0.73 | 0.06 | 0.74 | 0.77 | 0.54 | 0.45 | 0.37 | 0.54 | 0.77 | 0.03 | 4.7% |
| SC-255.01 | 10 min | 4361 | 0.68 | 0.69 | 0.05 | 0.69 | 0.71 | 0.55 | 0.46 | 0.37 | 0.56 | 0.71 | 0.02 | 2.6% |
| SC-256.01 | 10 min | 4365 | 0.60 | 0.61 | 0.04 | 0.61 | 0.63 | 0.46 | 0.38 | 0.31 | 0.45 | 0.63 | 0.02 | 3.3% |
| SC-257.01 | 10 min | 4365 | 0.34 | 0.34 | 0.03 | 0.35 | 0.36 | 0.25 | 0.21 | 0.17 | 0.25 | 0.36 | 0.01 | 1.5% |
| SC-258.01 | 10 min | 4361 | 1.55 | 1.56 | 0.11 | 1.58 | 1.59 | 1.16 | 0.95 | 0.76 | 1.14 | 1.59 | 0.01 | 0.7% |
| SC-258.02 | 10 min | 4364 | 2.56 | 2.60 | 0.32 | 2.63 | 2.20 | 2.16 | 1.78 | 1.36 | 2.16 | 2.20 | -0.43 | -16.2% |
| SC-259.01 | 10 min | 4363 | 0.66 | 0.67 | 0.06 | 0.68 | 0.71 | 0.47 | 0.41 | 0.34 | 0.48 | 0.71 | 0.03 | 4.8% |
| SC-259.02 | 10 min | 4365 | 1.38 | 1.40 | 0.11 | 1.40 | 1.44 | 1.05 | 0.90 | 0.73 | 1.06 | 1.44 | 0.04 | 3.1% |
| SC-259.03 | 10 min | 4365 | 1.96 | 1.98 | 0.15 | 1.99 | 2.05 | 1.48 | 1.27 | 1.02 | 1.50 | 2.05 | 0.06 | 3.1% |
| SC-259.04 | 10 min | 4365 | 3.55 | 3.60 | 0.28 | 3.62 | 3.72 | 2.68 | 2.31 | 1.86 | 2.71 | 3.72 | 0.10 | 2.8% |
| SC-259.05 | 10 min | 4361 | 4.36 | 4.40 | 0.33 | 4.41 | 4.53 | 3.33 | 2.85 | 2.27 | 3.36 | 4.53 | 0.12 | 2.7% |
| SC-259.06 | 10 min | 4365 | 5.61 | 5.67 | 0.42 | 5.69 | 5.86 | 4.34 | 3.69 | 2.93 | 4.35 | 5.86 | 0.17 | 3.0% |
| SC-259.07 | 10 min | 4356 | 7.24 | 7.15 | 0.32 | 7.17 | 7.64 | 6.06 | 4.93 | 3.71 | 5.64 | 7.64 | 0.47 | 6.5% |
| SC-259.08 | 10 min | 4356 | 8.57 | 8.54 | 0.26 | 8.57 | 8.86 | 7.18 | 5.85 | 4.24 | 6.69 | 8.86 | 0.29 | 3.4% |
| SC-259.09 | 10 min | 4356 | 22.37 | 22.31 | 0.34 | 22.34 | 22.76 | 20.44 | 16.25 | 11.94 | 19.46 | 22.76 | 0.42 | 1.9% |
| SC-259.10 | 10 min | 4356 | 22.72 | 22.69 | 0.31 | 22.72 | 23.07 | 20.74 | 16.57 | 12.20 | 19.94 | 23.07 | 0.35 | 1.6% |
| SC-26.01 | 10 min | 4363 | 0.46 | 0.47 | 0.04 | 0.48 | 0.49 | 0.34 | 0.28 | 0.23 | 0.33 | 0.49 | 0.01 | 3.1% |
| SC-260.01 | 10 min | 4363 | 0.44 | 0.44 | 0.04 | 0.45 | 0.47 | 0.32 | 0.26 | 0.22 | 0.31 | 0.47 | 0.02 | 5.2% |
| SC-261.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.58 | 0.60 | 0.41 | 0.36 | 0.29 | 0.41 | 0.60 | 0.02 | 3.2% |
| SC-262.01 | 10 min | 4363 | 0.64 | 0.65 | 0.06 | 0.66 | 0.69 | 0.46 | 0.38 | 0.32 | 0.46 | 0.69 | 0.03 | 4.5% |
| SC-262.02 | 10 min | 4368 | 1.16 | 1.18 | 0.09 | 1.19 | 1.23 | 0.87 | 0.72 | 0.59 | 0.86 | 1.23 | 0.04 | 3.1% |
| SC-263.01 | 10 min | 4363 | 0.67 | 0.69 | 0.06 | 0.70 | 0.73 | 0.50 | 0.41 | 0.34 | 0.50 | 0.73 | 0.03 | 3.8% |
| SC-264.01 | 10 min | 4363 | 0.37 | 0.38 | 0.03 | 0.39 | 0.40 | 0.27 | 0.22 | 0.19 | 0.26 | 0.40 | 0.01 | 3.0% |
| SC-265.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.50 | 0.53 | 0.37 | 0.31 | 0.25 | 0.37 | 0.53 | 0.03 | 5.2% |
| SC-265.02 | 20 min | 4371 | 1.24 | 1.19 | 0.19 | 1.20 | 1.17 | 1.13 | 0.93 | 0.74 | 1.13 | 1.17 | -0.03 | -2.6% |
| SC-265.03 | 15 min | 4401 | 2.14 | 2.04 | 0.26 | 2.08 | 2.01 | 2.10 | 1.66 | 1.25 | 2.01 | 2.10 | 0.02 | 1.1% |
| SC-265.04 | 10 min | 4354 | 10.15 | 10.14 | 0.26 | 10.21 | 10.21 | 9.65 | 7.72 | 5.84 | 9.29 | 10.21 | 0.00 | 0.0% |
| SC-266.01 | 10 min | 4354 | 0.63 | 0.63 | 0.04 | 0.64 | 0.64 | 0.54 | 0.45 | 0.36 | 0.54 | 0.64 | 0.00 | 0.6% |
| SC-266.02 | 10 min | 4354 | 1.21 | 1.20 | 0.08 | 1.22 | 1.22 | 1.02 | 0.85 | 0.69 | 1.03 | 1.22 | 0.00 | -0.2% |
| SC-266.03 | 10 min | 4361 | 1.45 | 1.47 | 0.10 | 1.47 | 1.51 | 1.20 | 1.02 | 0.83 | 1.22 | 1.51 | 0.04 | 2.4% |
| SC-266.04 | 10 min | 4354 | 5.64 | 5.52 | 0.37 | 5.60 | 5.60 | 4.87 | 4.10 | 3.25 | 4.93 | 5.60 | 0.00 | -0.1% |
| SC-266.05 | 10 min | 4365 | 6.44 | 6.47 | 0.24 | 6.48 | 6.62 | 5.82 | 4.84 | 3.76 | 5.76 | 6.62 | 0.14 | 2.1% |
| SC-267.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.65 | 0.44 | 0.36 | 0.30 | 0.43 | 0.65 | 0.03 | 4.0% |
| SC-268.01 | 10 min | 4363 | 1.01 | 1.03 | 0.08 | 1.04 | 1.08 | 0.75 | 0.63 | 0.52 | 0.76 | 1.08 | 0.04 | 4.2% |
| SC-268.02 | 10 min | 4354 | 2.65 | 2.66 | 0.17 | 2.70 | 2.70 | 2.21 | 1.86 | 1.50 | 2.23 | 2.70 | -0.01 | -0.2% |
| SC-269.01 | 20 min | 4371 | 0.45 | 0.43 | 0.07 | 0.43 | 0.41 | 0.42 | 0.34 | 0.27 | 0.42 | 0.42 | -0.01 | -2.3% |
| SC-27.01 | 10 min | 4354 | 0.49 | 0.49 | 0.03 | 0.49 | 0.49 | 0.40 | 0.33 | 0.26 | 0.40 | 0.49 | 0.00 | 0.7% |
| SC-270.01 | 20 min | 4429 | 0.50 | 0.47 | 0.07 | 0.47 | 0.44 | 0.47 | 0.37 | 0.29 | 0.46 | 0.47 | 0.00 | -0.8% |
| SC-271.01 | 15 min | 4401 | 0.31 | 0.28 | 0.06 | 0.29 | 0.27 | 0.28 | 0.23 | 0.17 | 0.28 | 0.28 | -0.01 | -3.4% |
| SC-272.01 | 20 min | 4433 | 0.75 | 0.71 | 0.10 | 0.71 | 0.62 | 0.71 | 0.56 | 0.44 | 0.70 | 0.71 | 0.00 | -0.1% |
| SC-272.02 | 20 min | 4371 | 1.53 | 1.44 | 0.23 | 1.45 | 1.32 | 1.40 | 1.14 | 0.89 | 1.40 | 1.40 | -0.05 | -3.7% |
| SC-272.03 | 10 min | 4364 | 2.52 | 2.55 | 0.32 | 2.58 | 2.16 | 2.19 | 1.83 | 1.41 | 2.22 | 2.22 | -0.36 | -14.1% |
| SC-273.01 | 10 min | 4364 | 0.71 | 0.73 | 0.10 | 0.73 | 0.60 | 0.59 | 0.48 | 0.37 | 0.58 | 0.60 | -0.13 | -17.2% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-274.01 | 20 min | 4433 | 0.36 | 0.36 | 0.04 | 0.36 | 0.26 | 0.35 | 0.35 | 0.28 | 0.37 | 0.37 | 0.01 | 4.1% |
| SC-274.02 | 10 min | 4354 | 1.44 | 1.42 | 0.10 | 1.44 | 1.44 | 1.18 | 1.08 | 0.86 | 1.24 | 1.44 | 0.00 | 0.2% |
| SC-274.03 | 10 min | 4361 | 3.44 | 3.47 | 0.24 | 3.48 | 3.55 | 2.68 | 2.33 | 1.87 | 2.75 | 3.55 | 0.07 | 2.1% |
| SC-274.04 | 10 min | 4365 | 4.44 | 4.48 | 0.31 | 4.49 | 4.62 | 3.45 | 2.98 | 2.39 | 3.51 | 4.62 | 0.13 | 2.9% |
| SC-274.05 | 10 min | 4354 | 5.84 | 5.72 | 0.44 | 5.81 | 5.81 | 4.60 | 3.95 | 3.15 | 4.66 | 5.81 | 0.00 | 0.1% |
| SC-275.01 | 10 min | 4363 | 0.65 | 0.67 | 0.06 | 0.68 | 0.71 | 0.48 | 0.40 | 0.33 | 0.48 | 0.71 | 0.03 | 4.0% |
| SC-276.01 | 10 min | 4363 | 0.48 | 0.48 | 0.04 | 0.50 | 0.52 | 0.34 | 0.28 | 0.24 | 0.33 | 0.52 | 0.02 | 3.1% |
| SC-277.01 | 10 min | 4361 | 0.61 | 0.62 | 0.04 | 0.62 | 0.63 | 0.46 | 0.38 | 0.30 | 0.45 | 0.63 | 0.01 | 2.2% |
| SC-278.01 | 10 min | 4363 | 0.37 | 0.37 | 0.03 | 0.38 | 0.40 | 0.27 | 0.22 | 0.18 | 0.26 | 0.40 | 0.02 | 4.5% |
| SC-278.02 | 10 min | 4364 | 4.92 | 5.00 | 0.51 | 5.04 | 4.34 | 4.15 | 3.39 | 2.50 | 4.15 | 4.34 | -0.70 | -13.9% |
| SC-279.01 | 10 min | 4364 | 0.65 | 0.65 | 0.07 | 0.66 | 0.59 | 0.55 | 0.46 | 0.35 | 0.56 | 0.59 | -0.07 | -11.0% |
| SC-279.02 | 10 min | 4364 | 4.68 | 4.76 | 0.59 | 4.81 | 4.02 | 3.91 | 3.19 | 2.39 | 3.88 | 4.02 | -0.79 | -16.4% |
| SC-28.01 | 20 min | 4399 | 0.43 | 0.41 | 0.05 | 0.41 | 0.34 | 0.43 | 0.32 | 0.24 | 0.41 | 0.43 | 0.02 | 4.7% |
| SC-28.02 | 20 min | 4433 | 0.97 | 0.92 | 0.14 | 0.92 | 0.81 | 0.91 | 0.73 | 0.57 | 0.90 | 0.91 | -0.01 | -0.9% |
| SC-28.03 | 20 min | 4371 | 1.35 | 1.28 | 0.20 | 1.29 | 1.22 | 1.25 | 1.02 | 0.80 | 1.24 | 1.25 | -0.04 | -3.2% |
| SC-28.04 | 10 min | 4354 | 2.89 | 2.80 | 0.21 | 2.82 | 2.82 | 2.38 | 2.01 | 1.59 | 2.42 | 2.82 | 0.00 | -0.1% |
| SC-280.01 | 10 min | 4354 | 0.62 | 0.61 | 0.04 | 0.62 | 0.62 | 0.49 | 0.41 | 0.33 | 0.50 | 0.62 | 0.00 | -0.5% |
| SC-29.01 | 10 min | 4363 | 0.46 | 0.47 | 0.04 | 0.48 | 0.49 | 0.33 | 0.27 | 0.23 | 0.32 | 0.49 | 0.01 | 3.0% |
| SC-29.02 | 10 min | 4361 | 1.27 | 1.28 | 0.09 | 1.29 | 1.30 | 0.97 | 0.80 | 0.64 | 0.95 | 1.30 | 0.01 | 0.7% |
| SC-3.01 | 10 min | 4364 | 0.56 | 0.55 | 0.04 | 0.55 | 0.53 | 0.49 | 0.40 | 0.31 | 0.49 | 0.53 | -0.02 | -3.2% |
| SC-3.02 | 15 min | 4396 | 1.82 | 1.70 | 0.30 | 1.73 | 1.65 | 1.66 | 1.35 | 1.06 | 1.66 | 1.66 | -0.07 | -3.9% |
| SC-30.01 | 10 min | 4363 | 0.82 | 0.83 | 0.07 | 0.85 | 0.88 | 0.59 | 0.48 | 0.41 | 0.57 | 0.88 | 0.03 | 4.0% |
| SC-30.02 | 10 min | 4354 | 1.49 | 1.50 | 0.10 | 1.52 | 1.52 | 1.13 | 0.93 | 0.74 | 1.11 | 1.52 | 0.00 | 0.1% |
| SC-30.03 | 10 min | 4361 | 2.06 | 2.08 | 0.14 | 2.10 | 2.12 | 1.59 | 1.31 | 1.04 | 1.56 | 2.12 | 0.02 | 0.9% |
| SC-30.04 | 10 min | 4361 | 2.62 | 2.65 | 0.19 | 2.66 | 2.72 | 2.03 | 1.67 | 1.34 | 2.00 | 2.72 | 0.06 | 2.1% |
| SC-31.01 | 10 min | 4354 | 0.57 | 0.55 | 0.04 | 0.56 | 0.56 | 0.44 | 0.37 | 0.29 | 0.44 | 0.56 | 0.00 | -0.8% |
| SC-31.02 | 10 min | 4354 | 1.19 | 1.15 | 0.09 | 1.15 | 1.15 | 0.94 | 0.77 | 0.61 | 0.93 | 1.15 | 0.00 | 0.3% |
| SC-32.01 | 15 min | 4392 | 0.52 | 0.48 | 0.09 | 0.48 | 0.47 | 0.47 | 0.38 | 0.28 | 0.47 | 0.47 | -0.01 | -1.5% |
| SC-32.02 | 15 min | 4401 | 0.74 | 0.70 | 0.10 | 0.71 | 0.65 | 0.71 | 0.56 | 0.40 | 0.68 | 0.71 | 0.00 | 0.2% |
| SC-33.01 | 10 min | 4363 | 0.69 | 0.70 | 0.06 | 0.71 | 0.74 | 0.50 | 0.41 | 0.35 | 0.48 | 0.74 | 0.03 | 4.4% |
| SC-33.02 | 10 min | 4365 | 1.59 | 1.60 | 0.12 | 1.61 | 1.66 | 1.21 | 1.00 | 0.80 | 1.19 | 1.66 | 0.05 | 3.3% |
| SC-34.01 | 10 min | 4354 | 0.55 | 0.55 | 0.04 | 0.55 | 0.55 | 0.41 | 0.34 | 0.27 | 0.40 | 0.55 | 0.00 | 0.5% |
| SC-34.02 | 10 min | 4354 | 1.12 | 1.09 | 0.08 | 1.11 | 1.11 | 0.86 | 0.70 | 0.55 | 0.84 | 1.11 | 0.00 | -0.3% |
| SC-34.03 | 10 min | 4365 | 1.30 | 1.31 | 0.08 | 1.32 | 1.36 | 1.03 | 0.84 | 0.67 | 1.01 | 1.36 | 0.04 | 2.7% |
| SC-35.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.52 | 0.54 | 0.34 | 0.29 | 0.25 | 0.33 | 0.54 | 0.02 | 3.7% |
| SC-35.02 | 10 min | 4363 | 1.36 | 1.39 | 0.11 | 1.39 | 1.45 | 0.99 | 0.83 | 0.71 | 0.97 | 1.45 | 0.06 | 4.0% |
| SC-35.03 | 10 min | 4368 | 2.16 | 2.21 | 0.17 | 2.22 | 2.29 | 1.58 | 1.33 | 1.14 | 1.53 | 2.29 | 0.07 | 3.2% |
| SC-35.04 | 10 min | 4363 | 2.31 | 2.36 | 0.19 | 2.37 | 2.47 | 1.70 | 1.43 | 1.22 | 1.65 | 2.47 | 0.09 | 4.0% |
| SC-36.01 | 10 min | 4363 | 1.05 | 1.07 | 0.09 | 1.08 | 1.13 | 0.77 | 0.64 | 0.52 | 0.76 | 1.13 | 0.05 | 4.4% |
| SC-36.02 | 10 min | 4363 | 1.89 | 1.92 | 0.15 | 1.95 | 2.03 | 1.38 | 1.14 | 0.94 | 1.36 | 2.03 | 0.08 | 4.1% |
| SC-37.01 | 10 min | 4363 | 0.40 | 0.41 | 0.03 | 0.42 | 0.43 | 0.30 | 0.24 | 0.20 | 0.29 | 0.43 | 0.01 | 3.0% |
| SC-37.02 | 10 min | 4361 | 1.14 | 1.15 | 0.08 | 1.15 | 1.18 | 0.85 | 0.70 | 0.57 | 0.83 | 1.18 | 0.03 | 3.0% |
| SC-38.01 | 10 min | 4368 | 0.47 | 0.48 | 0.04 | 0.48 | 0.50 | 0.35 | 0.29 | 0.24 | 0.34 | 0.50 | 0.02 | 4.6% |
| SC-39.01 | 10 min | 4363 | 0.27 | 0.28 | 0.02 | 0.28 | 0.29 | 0.20 | 0.16 | 0.14 | 0.19 | 0.29 | 0.01 | 4.6% |
| SC-4.01 | 20 min | 4429 | 0.64 | 0.61 | 0.09 | 0.61 | 0.55 | 0.61 | 0.48 | 0.37 | 0.60 | 0.61 | 0.00 | -0.3% |
| SC-40.01 | 10 min | 4363 | 0.63 | 0.64 | 0.06 | 0.66 | 0.69 | 0.44 | 0.38 | 0.32 | 0.43 | 0.69 | 0.03 | 5.0% |
| SC-41.01 | 10 min | 4363 | 0.41 | 0.42 | 0.04 | 0.44 | 0.45 | 0.29 | 0.24 | 0.21 | 0.28 | 0.45 | 0.01 | 3.1% |
| SC-42.01 | 10 min | 4363 | 1.41 | 1.43 | 0.12 | 1.48 | 1.54 | 0.99 | 0.83 | 0.71 | 0.96 | 1.54 | 0.06 | 4.1% |
| SC-43.01 | 10 min | 4363 | 0.31 | 0.31 | 0.03 | 0.32 | 0.34 | 0.21 | 0.18 | 0.16 | 0.20 | 0.34 | 0.02 | 5.4% |
| SC-44.01 | 10 min | 4363 | 0.97 | 0.99 | 0.08 | 1.01 | 1.06 | 0.71 | 0.58 | 0.49 | 0.70 | 1.06 | 0.05 | 4.6% |
| SC-44.02 | 10 min | 4365 | 1.57 | 1.58 | 0.11 | 1.58 | 1.63 | 1.18 | 0.98 | 0.79 | 1.17 | 1.63 | 0.05 | 3.2% |
| SC-44.03 | 10 min | 4361 | 2.15 | 2.17 | 0.15 | 2.17 | 2.23 | 1.64 | 1.35 | 1.09 | 1.62 | 2.23 | 0.06 | 2.8% |
| SC-44.04 | 10 min | 4361 | 3.28 | 3.30 | 0.23 | 3.35 | 3.36 | 2.55 | 2.11 | 1.68 | 2.52 | 3.36 | 0.01 | 0.3% |
| SC-44.05 | 10 min | 4361 | 5.73 | 5.77 | 0.34 | 5.80 | 5.89 | 4.59 | 3.73 | 2.94 | 4.48 | 5.89 | 0.09 | 1.5% |
| SC-44.06 | 10 min | 4365 | 6.10 | 6.12 | 0.30 | 6.13 | 6.26 | 5.03 | 4.04 | 3.15 | 4.88 | 6.26 | 0.13 | 2.1% |
| SC-44.07 | 10 min | 4355 | 6.90 | 6.82 | 0.19 | 6.82 | 6.81 | 6.11 | 4.81 | 3.51 | 5.85 | 6.81 | -0.01 | -0.2% |
| SC-44.08 | 10 min | 4364 | 8.84 | 8.78 | 0.28 | 8.82 | 8.58 | 7.82 | 6.06 | 4.30 | 7.52 | 8.58 | -0.24 | -2.8% |
| SC-44.09 | 10 min | 4364 | 9.22 | 9.10 | 0.24 | 9.12 | 9.03 | 8.64 | 6.76 | 4.77 | 8.32 | 9.03 | -0.09 | -1.0% |
| SC-44.10 | 45 min | 4747 | 0.73 | 0.73 | 0.01 | 0.73 | 0.66 | 0.69 | 0.73 | 0.74 | 0.76 | 0.76 | 0.03 | 4.6% |
| SC-44.11 | 45 min | 4533 | 12.10 | 11.91 | 1.21 | 12.48 | 1.50 | 9.81 | 12.48 | 9.98 | 14.74 | 14.74 | 2.26 | 18.1% |
| SC-44.12 | 45 min | 4747 | 0.71 | 0.73 | 0.07 | 0.72 | 0.00 | 0.00 | 0.00 | 0.00 | 0.69 | 0.69 | -0.03 | -3.9% |
| SC-44.13 | 45 min | 4747 | 0.57 | 0.57 | 0.02 | 0.57 | 0.14 | 0.23 | 0.30 | 0.29 | 0.67 | 0.67 | 0.10 | 17.3% |
| SC-44.14 | 45 min | 4747 | 1.49 | 1.49 | 0.07 | 1.50 | 0.41 | 1.06 | 1.47 | 1.47 | 1.48 | 1.48 | -0.02 | -1.3% |
| SC-44.15 | 45 min | 4785 | 2.58 | 2.59 | 0.03 | 2.59 | 2.23 | 2.39 | 2.59 | 2.59 | 2.57 | 2.59 | 0.00 | 0.1% |
| SC-44.16 | 45 min | 4785 | 2.64 | 2.65 | 0.03 | 2.65 | 2.31 | 2.48 | 2.67 | 2.64 | 2.63 | 2.67 | 0.02 | 0.6% |
| SC-44.17 | 15 min | 4401 | 8.46 | 8.23 | 0.76 | 8.32 | 8.03 | 8.28 | 7.24 | 5.94 | 8.12 | 8.28 | -0.04 | -0.5% |
| SC-44.18 | 15 min | 4401 | 8.82 | 8.78 | 0.65 | 8.86 | 8.19 | 8.71 | 7.76 | 6.31 | 8.70 | 8.71 | -0.15 | -1.7% |
| SC-44.19 | 15 min | 4401 | 9.91 | 10.00 | 0.47 | 10.10 | 9.35 | 10.08 | 8.76 | 6.99 | 9.83 | 10.08 | -0.02 | -0.2% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-44.20 | 25 min | 4466 | 9.30 | 9.30 | 0.42 | 9.34 | 8.40 | 9.27 | 8.64 | 7.22 | 9.44 | 9.44 | 0.10 | 1.0% |
| SC-45.01 | 10 min | 4361 | 0.73 | 0.74 | 0.05 | 0.74 | 0.75 | 0.57 | 0.47 | 0.38 | 0.56 | 0.75 | 0.01 | 1.9% |
| SC-46.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.61 | 0.63 | 0.43 | 0.35 | 0.29 | 0.42 | 0.63 | 0.02 | 3.6% |
| SC-46.02 | 10 min | 4354 | 1.02 | 1.02 | 0.07 | 1.03 | 1.03 | 0.78 | 0.64 | 0.51 | 0.77 | 1.03 | 0.00 | 0.3% |
| SC-46.03 | 10 min | 4361 | 1.52 | 1.53 | 0.10 | 1.55 | 1.56 | 1.17 | 0.97 | 0.77 | 1.16 | 1.56 | 0.01 | 0.7% |
| SC-46.04 | 10 min | 4361 | 1.72 | 1.73 | 0.12 | 1.74 | 1.78 | 1.33 | 1.10 | 0.88 | 1.31 | 1.78 | 0.03 | 2.0% |
| SC-47.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.99 | 1.03 | 0.70 | 0.58 | 0.48 | 0.69 | 1.03 | 0.04 | 4.2% |
| SC-48.01 | 10 min | 4363 | 0.72 | 0.73 | 0.06 | 0.75 | 0.78 | 0.52 | 0.43 | 0.36 | 0.51 | 0.78 | 0.03 | 3.9% |
| SC-48.02 | 10 min | 4361 | 1.15 | 1.16 | 0.08 | 1.17 | 1.18 | 0.87 | 0.72 | 0.58 | 0.86 | 1.18 | 0.01 | 0.9% |
| SC-49.01 | 10 min | 4363 | 0.81 | 0.83 | 0.07 | 0.84 | 0.87 | 0.59 | 0.48 | 0.41 | 0.57 | 0.87 | 0.03 | 3.9% |
| SC-5.01 | 10 min | 4354 | 0.52 | 0.52 | 0.03 | 0.53 | 0.53 | 0.39 | 0.32 | 0.26 | 0.39 | 0.53 | 0.00 | -0.8% |
| SC-50.01 | 10 min | 4364 | 0.29 | 0.28 | 0.03 | 0.28 | 0.27 | 0.23 | 0.19 | 0.14 | 0.22 | 0.27 | -0.01 | -2.1% |
| SC-51.01 | 10 min | 4365 | 0.29 | 0.29 | 0.02 | 0.29 | 0.30 | 0.21 | 0.18 | 0.14 | 0.20 | 0.30 | 0.01 | 3.0% |
| SC-52.01 | 10 min | 4368 | 0.29 | 0.29 | 0.02 | 0.29 | 0.30 | 0.21 | 0.18 | 0.14 | 0.20 | 0.30 | 0.01 | 5.1% |
| SC-53.01 | 10 min | 4363 | 0.70 | 0.71 | 0.06 | 0.72 | 0.75 | 0.51 | 0.42 | 0.35 | 0.50 | 0.75 | 0.03 | 4.4% |
| SC-53.02 | 10 min | 4354 | 1.44 | 1.43 | 0.10 | 1.45 | 1.45 | 1.11 | 0.92 | 0.72 | 1.09 | 1.45 | 0.00 | -0.1% |
| SC-53.03 | 10 min | 4361 | 1.73 | 1.75 | 0.12 | 1.76 | 1.79 | 1.35 | 1.11 | 0.89 | 1.33 | 1.79 | 0.03 | 1.7% |
| SC-54.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.59 | 0.61 | 0.41 | 0.34 | 0.28 | 0.40 | 0.61 | 0.02 | 3.4% |
| SC-54.02 | 10 min | 4354 | 1.10 | 1.08 | 0.08 | 1.10 | 1.10 | 0.85 | 0.69 | 0.55 | 0.83 | 1.10 | 0.00 | 0.0% |
| SC-55.01 | 10 min | 4363 | 0.88 | 0.90 | 0.07 | 0.91 | 0.95 | 0.64 | 0.52 | 0.44 | 0.62 | 0.95 | 0.04 | 4.2% |
| SC-56.01 | 10 min | 4354 | 0.42 | 0.41 | 0.03 | 0.42 | 0.42 | 0.32 | 0.26 | 0.20 | 0.31 | 0.42 | 0.00 | 0.1% |
| SC-57.01 | 10 min | 4364 | 0.31 | 0.31 | 0.04 | 0.31 | 0.27 | 0.25 | 0.20 | 0.16 | 0.24 | 0.27 | -0.04 | -11.4% |
| SC-58.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.59 | 0.62 | 0.42 | 0.35 | 0.28 | 0.41 | 0.62 | 0.03 | 4.7% |
| SC-59.01 | 10 min | 4363 | 0.77 | 0.79 | 0.06 | 0.79 | 0.82 | 0.59 | 0.49 | 0.40 | 0.59 | 0.82 | 0.03 | 4.4% |
| SC-59.02 | 10 min | 4354 | 1.48 | 1.47 | 0.10 | 1.49 | 1.49 | 1.15 | 0.97 | 0.77 | 1.16 | 1.49 | 0.00 | 0.2% |
| SC-59.03 | 10 min | 4354 | 2.15 | 2.15 | 0.15 | 2.18 | 2.18 | 1.67 | 1.39 | 1.11 | 1.66 | 2.18 | 0.00 | 0.0% |
| SC-59.04 | 10 min | 4354 | 2.76 | 2.78 | 0.19 | 2.82 | 2.82 | 2.14 | 1.79 | 1.42 | 2.13 | 2.82 | 0.00 | 0.1% |
| SC-59.05 | 10 min | 4354 | 5.98 | 5.88 | 0.36 | 5.96 | 5.97 | 4.91 | 4.03 | 3.15 | 4.83 | 5.97 | 0.00 | 0.1% |
| SC-59.06 | 10 min | 4354 | 6.93 | 6.78 | 0.36 | 6.84 | 6.84 | 5.86 | 4.70 | 3.59 | 5.73 | 6.84 | 0.00 | 0.0% |
| SC-59.07 | 10 min | 4357 | 11.74 | 11.45 | 0.73 | 11.45 | 11.37 | 10.10 | 8.19 | 6.30 | 9.93 | 11.37 | -0.08 | -0.7% |
| SC-59.08 | 15 min | 4401 | 11.55 | 11.32 | 1.41 | 11.49 | 10.49 | 11.11 | 8.84 | 6.62 | 10.81 | 11.11 | -0.38 | -3.3% |
| SC-59.09 | 15 min | 4401 | 13.84 | 13.86 | 1.11 | 14.04 | 12.32 | 13.79 | 10.91 | 8.01 | 13.32 | 13.79 | -0.25 | -1.8% |
| SC-59.10 | 25 min | 4394 | 11.97 | 12.21 | 1.06 | 12.35 | 5.29 | 11.48 | 11.59 | 8.81 | 13.93 | 13.93 | 1.58 | 12.8% |
| SC-6.01 | 10 min | 4363 | 0.65 | 0.66 | 0.06 | 0.69 | 0.71 | 0.46 | 0.39 | 0.33 | 0.45 | 0.71 | 0.02 | 3.6% |
| SC-60.01 | 10 min | 4364 | 0.52 | 0.53 | 0.05 | 0.53 | 0.47 | 0.46 | 0.38 | 0.29 | 0.46 | 0.47 | -0.06 | -11.1% |
| SC-60.02 | 10 min | 4364 | 2.15 | 2.08 | 0.18 | 2.10 | 2.04 | 1.78 | 1.46 | 1.14 | 1.77 | 2.04 | -0.06 | -2.8% |
| SC-61.01 | 10 min | 4357 | 1.13 | 1.10 | 0.08 | 1.10 | 1.09 | 0.90 | 0.74 | 0.58 | 0.89 | 1.09 | -0.01 | -1.0% |
| SC-62.01 | 10 min | 4363 | 0.68 | 0.69 | 0.05 | 0.70 | 0.73 | 0.50 | 0.41 | 0.34 | 0.48 | 0.73 | 0.03 | 3.7% |
| SC-63.01 | 10 min | 4364 | 0.39 | 0.40 | 0.05 | 0.40 | 0.34 | 0.33 | 0.27 | 0.21 | 0.33 | 0.34 | -0.06 | -15.4% |
| SC-64.01 | 10 min | 4363 | 0.51 | 0.52 | 0.04 | 0.53 | 0.55 | 0.37 | 0.31 | 0.25 | 0.37 | 0.55 | 0.02 | 4.0% |
| SC-64.02 | 10 min | 4354 | 1.75 | 1.73 | 0.12 | 1.76 | 1.76 | 1.38 | 1.15 | 0.91 | 1.38 | 1.76 | -0.01 | -0.3% |
| SC-64.03 | 10 min | 4354 | 3.27 | 3.26 | 0.22 | 3.31 | 3.31 | 2.57 | 2.14 | 1.71 | 2.57 | 3.31 | 0.00 | -0.1% |
| SC-64.04 | 10 min | 4354 | 4.64 | 4.54 | 0.32 | 4.60 | 4.60 | 3.84 | 3.18 | 2.50 | 3.83 | 4.60 | 0.00 | 0.0% |
| SC-65.01 | 10 min | 4363 | 0.40 | 0.40 | 0.03 | 0.41 | 0.43 | 0.29 | 0.25 | 0.20 | 0.29 | 0.43 | 0.02 | 4.0% |
| SC-66.01 | 10 min | 4354 | 0.33 | 0.32 | 0.03 | 0.32 | 0.32 | 0.25 | 0.21 | 0.16 | 0.25 | 0.32 | 0.00 | 0.6% |
| SC-66.02 | 15 min | 4401 | 0.77 | 0.71 | 0.14 | 0.72 | 0.68 | 0.69 | 0.56 | 0.43 | 0.69 | 0.69 | -0.03 | -3.6% |
| SC-67.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.59 | 0.62 | 0.41 | 0.34 | 0.29 | 0.40 | 0.62 | 0.03 | 4.7% |
| SC-68.01 | 10 min | 4363 | 0.78 | 0.80 | 0.07 | 0.81 | 0.84 | 0.57 | 0.46 | 0.39 | 0.55 | 0.84 | 0.03 | 4.0% |
| SC-68.02 | 10 min | 4354 | 1.50 | 1.50 | 0.11 | 1.52 | 1.52 | 1.14 | 0.94 | 0.75 | 1.11 | 1.52 | 0.00 | 0.1% |
| SC-68.03 | 10 min | 4368 | 2.71 | 2.76 | 0.21 | 2.77 | 2.86 | 2.04 | 1.67 | 1.37 | 1.99 | 2.86 | 0.09 | 3.1% |
| SC-69.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.70 | 0.73 | 0.47 | 0.40 | 0.34 | 0.45 | 0.73 | 0.03 | 4.7% |
| SC-7.01 | 10 min | 4365 | 0.89 | 0.90 | 0.06 | 0.90 | 0.92 | 0.70 | 0.58 | 0.47 | 0.70 | 0.92 | 0.02 | 2.6% |
| SC-70.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.64 | 0.66 | 0.45 | 0.37 | 0.31 | 0.43 | 0.66 | 0.02 | 3.5% |
| SC-70.02 | 10 min | 4354 | 1.00 | 1.01 | 0.07 | 1.02 | 1.02 | 0.75 | 0.62 | 0.50 | 0.73 | 1.02 | 0.00 | 0.0% |
| SC-71.01 | 10 min | 4363 | 0.78 | 0.79 | 0.06 | 0.81 | 0.84 | 0.56 | 0.46 | 0.39 | 0.55 | 0.84 | 0.03 | 3.6% |
| SC-71.02 | 10 min | 4354 | 1.51 | 1.51 | 0.11 | 1.53 | 1.53 | 1.16 | 0.96 | 0.76 | 1.14 | 1.53 | 0.00 | 0.0% |
| SC-72.01 | 10 min | 4363 | 0.84 | 0.85 | 0.07 | 0.87 | 0.91 | 0.60 | 0.50 | 0.42 | 0.59 | 0.91 | 0.04 | 4.3% |
| SC-73.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.70 | 0.73 | 0.51 | 0.42 | 0.34 | 0.50 | 0.73 | 0.03 | 4.6% |
| SC-74.01 | 10 min | 4363 | 0.78 | 0.80 | 0.07 | 0.81 | 0.85 | 0.57 | 0.47 | 0.39 | 0.56 | 0.85 | 0.04 | 4.7% |
| SC-75.01 | 10 min | 4364 | 0.49 | 0.47 | 0.04 | 0.47 | 0.46 | 0.39 | 0.32 | 0.25 | 0.38 | 0.46 | -0.01 | -1.7% |
| SC-75.02 | 10 min | 4364 | 1.91 | 1.89 | 0.19 | 1.91 | 1.77 | 1.60 | 1.32 | 1.02 | 1.60 | 1.77 | -0.14 | -7.1% |
| SC-75.03 | 10 min | 4364 | 2.78 | 2.71 | 0.20 | 2.72 | 2.68 | 2.32 | 1.89 | 1.48 | 2.31 | 2.68 | -0.04 | -1.5% |
| SC-75.04 | 10 min | 4354 | 4.80 | 4.66 | 0.34 | 4.69 | 4.69 | 3.94 | 3.23 | 2.52 | 3.90 | 4.69 | 0.00 | 0.0% |
| SC-76.01 | 10 min | 4364 | 0.64 | 0.65 | 0.07 | 0.65 | 0.56 | 0.55 | 0.45 | 0.34 | 0.55 | 0.56 | -0.09 | -14.4% |
| SC-77.01 | 10 min | 4363 | 0.92 | 0.94 | 0.08 | 0.96 | 1.00 | 0.67 | 0.55 | 0.46 | 0.65 | 1.00 | 0.04 | 3.8% |
| SC-77.02 | 10 min | 4363 | 1.39 | 1.42 | 0.12 | 1.45 | 1.51 | 1.01 | 0.83 | 0.70 | 0.98 | 1.51 | 0.06 | 3.9% |
| SC-77.03 | 10 min | 4365 | 1.98 | 2.00 | 0.15 | 2.01 | 2.06 | 1.48 | 1.22 | 0.99 | 1.45 | 2.06 | 0.05 | 2.6% |
| SC-78.01 | 10 min | 4363 | 0.87 | 0.89 | 0.07 | 0.90 | 0.94 | 0.63 | 0.52 | 0.44 | 0.62 | 0.94 | 0.04 | 4.7% |

## ARR2019 Results for 1%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 45 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4429 | 4533 | 4558 | 4611 | | $m^3/s$ | % |
| SC-79.01 | 10 min | 4368 | 0.94 | 0.96 | 0.07 | 0.96 | 0.99 | 0.70 | 0.62 | 0.51 | 0.73 | 0.99 | 0.03 | 3.3% |
| SC-79.02 | 10 min | 4368 | 1.74 | 1.77 | 0.14 | 1.78 | 1.84 | 1.30 | 1.16 | 0.94 | 1.34 | 1.84 | 0.06 | 3.2% |
| SC-79.03 | 10 min | 4361 | 3.85 | 3.89 | 0.28 | 3.90 | 3.98 | 2.97 | 2.51 | 2.00 | 2.96 | 3.98 | 0.08 | 2.0% |
| SC-8.01 | 10 min | 4361 | 0.75 | 0.76 | 0.05 | 0.76 | 0.78 | 0.59 | 0.48 | 0.39 | 0.58 | 0.78 | 0.02 | 2.2% |
| SC-8.02 | 10 min | 4354 | 1.83 | 1.79 | 0.13 | 1.82 | 1.82 | 1.45 | 1.20 | 0.95 | 1.45 | 1.82 | 0.00 | 0.0% |
| SC-8.03 | 10 min | 4354 | 4.67 | 4.69 | 0.31 | 4.76 | 4.76 | 3.71 | 3.06 | 2.44 | 3.68 | 4.76 | 0.00 | 0.0% |
| SC-8.04 | 10 min | 4361 | 8.23 | 8.30 | 0.58 | 8.34 | 8.51 | 6.49 | 5.37 | 4.28 | 6.45 | 8.51 | 0.17 | 2.0% |
| SC-8.05 | 10 min | 4368 | 8.95 | 9.07 | 0.58 | 9.11 | 9.37 | 7.30 | 5.98 | 4.74 | 7.16 | 9.37 | 0.26 | 2.9% |
| SC-8.06 | 10 min | 4363 | 9.28 | 9.34 | 0.52 | 9.46 | 9.78 | 7.75 | 6.29 | 4.95 | 7.51 | 9.78 | 0.32 | 3.4% |
| SC-80.01 | 10 min | 4363 | 0.91 | 0.93 | 0.08 | 0.94 | 0.98 | 0.66 | 0.54 | 0.46 | 0.64 | 0.98 | 0.04 | 4.3% |
| SC-80.02 | 10 min | 4354 | 1.83 | 1.84 | 0.13 | 1.86 | 1.86 | 1.40 | 1.15 | 0.91 | 1.37 | 1.86 | 0.00 | 0.2% |
| SC-81.01 | 10 min | 4354 | 0.70 | 0.69 | 0.05 | 0.70 | 0.70 | 0.53 | 0.44 | 0.35 | 0.52 | 0.70 | 0.00 | 0.4% |
| SC-81.02 | 10 min | 4354 | 2.04 | 2.04 | 0.14 | 2.07 | 2.07 | 1.56 | 1.28 | 1.02 | 1.54 | 2.07 | 0.00 | -0.2% |
| SC-82.01 | 10 min | 4363 | 0.81 | 0.83 | 0.07 | 0.84 | 0.87 | 0.59 | 0.49 | 0.40 | 0.58 | 0.87 | 0.03 | 3.6% |
| SC-83.01 | 10 min | 4363 | 0.51 | 0.52 | 0.04 | 0.53 | 0.55 | 0.38 | 0.31 | 0.26 | 0.37 | 0.55 | 0.02 | 3.9% |
| SC-84.01 | 10 min | 4368 | 0.77 | 0.78 | 0.06 | 0.79 | 0.81 | 0.57 | 0.47 | 0.38 | 0.56 | 0.81 | 0.02 | 2.7% |
| SC-84.02 | 10 min | 4363 | 1.88 | 1.92 | 0.15 | 1.92 | 2.00 | 1.43 | 1.18 | 0.95 | 1.40 | 2.00 | 0.08 | 4.3% |
| SC-84.03 | 10 min | 4365 | 2.50 | 2.53 | 0.18 | 2.54 | 2.62 | 1.91 | 1.57 | 1.26 | 1.87 | 2.62 | 0.08 | 3.1% |
| SC-84.04 | 10 min | 4365 | 2.96 | 3.00 | 0.23 | 3.01 | 3.10 | 2.27 | 1.86 | 1.49 | 2.22 | 3.10 | 0.09 | 3.0% |
| SC-84.05 | 10 min | 4368 | 3.51 | 3.56 | 0.21 | 3.56 | 3.68 | 2.81 | 2.27 | 1.78 | 2.70 | 3.68 | 0.12 | 3.4% |
| SC-84.06 | 10 min | 4363 | 3.88 | 3.92 | 0.17 | 3.93 | 4.03 | 3.19 | 2.56 | 1.95 | 3.04 | 4.03 | 0.10 | 2.5% |
| SC-85.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.49 | 0.51 | 0.34 | 0.28 | 0.24 | 0.33 | 0.51 | 0.02 | 3.9% |
| SC-86.01 | 10 min | 4363 | 0.72 | 0.73 | 0.06 | 0.75 | 0.78 | 0.52 | 0.43 | 0.36 | 0.52 | 0.78 | 0.03 | 3.9% |
| SC-86.02 | 10 min | 4363 | 1.41 | 1.43 | 0.11 | 1.44 | 1.50 | 1.10 | 1.01 | 0.83 | 1.16 | 1.50 | 0.06 | 4.0% |
| SC-87.01 | 10 min | 4363 | 1.05 | 1.07 | 0.09 | 1.10 | 1.14 | 0.76 | 0.63 | 0.53 | 0.75 | 1.14 | 0.04 | 3.8% |
| SC-87.02 | 10 min | 4365 | 1.80 | 1.83 | 0.14 | 1.84 | 1.89 | 1.35 | 1.12 | 0.91 | 1.34 | 1.89 | 0.05 | 2.7% |
| SC-88.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.49 | 0.51 | 0.35 | 0.29 | 0.24 | 0.35 | 0.51 | 0.02 | 4.2% |
| SC-88.02 | 10 min | 4365 | 0.78 | 0.79 | 0.06 | 0.80 | 0.82 | 0.63 | 0.54 | 0.44 | 0.64 | 0.82 | 0.02 | 2.6% |
| SC-89.01 | 10 min | 4363 | 0.52 | 0.53 | 0.05 | 0.54 | 0.56 | 0.38 | 0.31 | 0.26 | 0.37 | 0.56 | 0.02 | 3.7% |
| SC-89.02 | 10 min | 4368 | 0.57 | 0.58 | 0.04 | 0.59 | 0.61 | 0.44 | 0.36 | 0.29 | 0.43 | 0.61 | 0.02 | 2.7% |
| SC-9.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.71 | 0.74 | 0.50 | 0.41 | 0.34 | 0.49 | 0.74 | 0.03 | 3.6% |
| SC-90.01 | 10 min | 4363 | 0.21 | 0.21 | 0.02 | 0.21 | 0.22 | 0.16 | 0.13 | 0.11 | 0.16 | 0.22 | 0.01 | 6.8% |
| SC-91.01 | 10 min | 4363 | 0.61 | 0.61 | 0.05 | 0.64 | 0.67 | 0.43 | 0.36 | 0.31 | 0.41 | 0.67 | 0.03 | 4.4% |
| SC-91.02 | 10 min | 4363 | 1.28 | 1.30 | 0.11 | 1.31 | 1.37 | 0.93 | 0.78 | 0.65 | 0.90 | 1.37 | 0.06 | 4.5% |
| SC-92.01 | 10 min | 4361 | 0.62 | 0.63 | 0.04 | 0.63 | 0.64 | 0.48 | 0.39 | 0.32 | 0.47 | 0.64 | 0.01 | 1.7% |
| SC-92.02 | 10 min | 4354 | 1.76 | 1.72 | 0.12 | 1.75 | 1.75 | 1.41 | 1.19 | 0.94 | 1.43 | 1.75 | 0.00 | -0.1% |
| SC-93.01 | 10 min | 4363 | 0.67 | 0.68 | 0.05 | 0.69 | 0.71 | 0.49 | 0.41 | 0.33 | 0.48 | 0.71 | 0.02 | 3.5% |
| SC-94.01 | 10 min | 4363 | 0.73 | 0.74 | 0.06 | 0.76 | 0.79 | 0.52 | 0.43 | 0.37 | 0.50 | 0.79 | 0.03 | 4.6% |
| SC-94.02 | 10 min | 4368 | 1.72 | 1.75 | 0.14 | 1.75 | 1.83 | 1.28 | 1.05 | 0.87 | 1.24 | 1.83 | 0.08 | 4.4% |
| SC-95.01 | 10 min | 4363 | 0.43 | 0.43 | 0.04 | 0.45 | 0.47 | 0.30 | 0.25 | 0.22 | 0.29 | 0.47 | 0.02 | 4.6% |
| SC-95.02 | 10 min | 4363 | 1.05 | 1.07 | 0.09 | 1.09 | 1.13 | 0.75 | 0.63 | 0.53 | 0.73 | 1.13 | 0.04 | 3.9% |
| SC-96.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.50 | 0.52 | 0.34 | 0.29 | 0.24 | 0.33 | 0.52 | 0.02 | 5.0% |
| SC-97.01 | 10 min | 4363 | 0.32 | 0.33 | 0.03 | 0.34 | 0.36 | 0.23 | 0.19 | 0.16 | 0.22 | 0.36 | 0.02 | 4.7% |
| SC-97.02 | 10 min | 4361 | 1.90 | 1.92 | 0.14 | 1.94 | 1.96 | 1.46 | 1.23 | 0.99 | 1.47 | 1.96 | 0.02 | 1.0% |
| SC-98.01 | 10 min | 4363 | 0.57 | 0.58 | 0.05 | 0.59 | 0.61 | 0.42 | 0.34 | 0.28 | 0.41 | 0.61 | 0.02 | 3.7% |
| SC-99.01 | 10 min | 4363 | 0.55 | 0.56 | 0.05 | 0.57 | 0.60 | 0.40 | 0.33 | 0.28 | 0.38 | 0.60 | 0.03 | 4.4% |
| SC-99.02 | 10 min | 4354 | 1.52 | 1.51 | 0.11 | 1.54 | 1.54 | 1.16 | 0.96 | 0.75 | 1.12 | 1.54 | 0.00 | -0.3% |
| SC-99.03 | 10 min | 4354 | 2.64 | 2.60 | 0.19 | 2.64 | 2.64 | 2.03 | 1.67 | 1.31 | 1.99 | 2.64 | 0.00 | -0.2% |
| SC-99.04 | 10 min | 4361 | 6.94 | 7.00 | 0.47 | 7.03 | 7.17 | 5.54 | 4.55 | 3.60 | 5.43 | 7.17 | 0.14 | 2.0% |
| Dummy1 | 15 min | 4392 | 35.21 | 35.17 | 2.26 | 35.32 | 34.44 | 32.69 | 26.15 | 18.90 | 31.89 | 34.44 | -0.88 | -2.5% |
| Dummy2 | 25 min | 4394 | 55.50 | 55.11 | 3.58 | 55.39 | 46.16 | 50.75 | 51.21 | 39.27 | 52.29 | 52.29 | -3.11 | -5.6% |
| Dummy3 | 30 min | 4497 | 107.26 | 106.76 | 7.42 | 106.76 | 87.48 | 102.56 | 98.49 | 87.48 | 110.26 | 110.26 | 3.50 | 3.3% |
| DummyOut | 1.50 hour | 4465 | 116.02 | 113.71 | 10.70 | 113.93 | 87.96 | 103.13 | 100.63 | 110.64 | 128.32 | 128.32 | 14.39 | 12.6% |

## ARR2019 Results for 0.5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4400 | 4371 | 4558 | 4611 | | $m^3/s$ | % |
| SC-1.01 | 10 min | 4365 | 1.00 | 1.00 | 0.07 | 1.01 | 1.04 | 0.84 | 0.96 | 0.55 | 0.81 | 1.04 | 0.03 | 2.8% |
| SC-1.02 | 10 min | 4361 | 2.16 | 2.17 | 0.14 | 2.19 | 2.21 | 1.86 | 2.04 | 1.19 | 1.77 | 2.21 | 0.02 | 0.8% |
| SC-1.03 | 10 min | 4365 | 2.54 | 2.57 | 0.17 | 2.58 | 2.66 | 2.19 | 2.46 | 1.40 | 2.07 | 2.66 | 0.08 | 3.0% |
| SC-1.04 | 10 min | 4354 | 6.85 | 6.71 | 0.46 | 6.81 | 6.81 | 6.02 | 6.29 | 3.78 | 5.74 | 6.81 | 0.00 | 0.0% |
| SC-1.05 | 10 min | 4354 | 7.32 | 7.31 | 0.45 | 7.41 | 7.41 | 6.58 | 6.81 | 4.09 | 6.22 | 7.41 | 0.00 | 0.0% |
| SC-1.06 | 10 min | 4354 | 8.43 | 8.38 | 0.46 | 8.47 | 8.47 | 7.73 | 7.68 | 4.66 | 7.24 | 8.47 | 0.00 | 0.0% |
| SC-1.07 | 10 min | 4361 | 8.55 | 8.58 | 0.43 | 8.65 | 8.68 | 7.94 | 7.85 | 4.75 | 7.38 | 8.68 | 0.03 | 0.3% |
| SC-1.08 | 45 min | 4528 | 9.59 | 9.51 | 0.90 | 9.83 | 4.52 | 6.85 | 7.96 | 8.56 | 10.95 | 10.95 | 1.12 | 11.4% |
| SC-1.09 | 45 min | 4533 | 10.31 | 10.37 | 0.67 | 10.50 | 4.64 | 7.00 | 8.10 | 9.64 | 11.39 | 11.39 | 0.89 | 8.4% |
| SC-1.10 | 45 min | 4533 | 10.42 | 10.45 | 0.62 | 10.52 | 4.79 | 7.01 | 8.11 | 9.82 | 11.43 | 11.43 | 0.91 | 8.6% |
| SC-1.11 | 10 min | 4354 | 14.94 | 14.65 | 0.71 | 14.76 | 14.76 | 13.98 | 14.74 | 13.54 | 15.42 | 15.42 | 0.66 | 4.5% |
| SC-1.12 | 10 min | 4354 | 18.66 | 18.35 | 0.75 | 18.47 | 18.47 | 17.68 | 17.24 | 15.01 | 17.97 | 18.47 | 0.00 | 0.0% |
| SC-1.13 | 10 min | 4361 | 21.10 | 21.05 | 0.42 | 21.13 | 21.15 | 20.62 | 18.64 | 16.16 | 20.19 | 21.15 | 0.02 | 0.1% |
| SC-1.14 | 10 min | 4354 | 25.26 | 25.17 | 0.40 | 25.20 | 25.20 | 24.99 | 21.95 | 18.08 | 23.51 | 25.20 | 0.00 | 0.0% |
| SC-1.15 | 10 min | 4364 | 27.45 | 27.26 | 0.46 | 27.27 | 27.15 | 27.57 | 23.66 | 19.23 | 25.33 | 27.57 | 0.30 | 1.1% |
| SC-1.16 | 15 min | 4403 | 30.73 | 31.06 | 0.65 | 31.08 | 28.92 | 31.39 | 25.84 | 21.63 | 28.95 | 31.39 | 0.31 | 1.0% |
| SC-1.17 | 15 min | 4397 | 31.24 | 31.42 | 0.64 | 31.43 | 29.13 | 31.74 | 26.13 | 22.00 | 29.49 | 31.74 | 0.31 | 1.0% |
| SC-1.18 | 45 min | 4496 | 19.62 | 19.61 | 0.33 | 19.77 | 16.44 | 18.23 | 17.75 | 18.99 | 19.74 | 19.74 | -0.03 | -0.2% |
| SC-1.19 | 1 hour | 4558 | 25.36 | 25.20 | 0.80 | 25.27 | 11.54 | 14.89 | 17.54 | 25.27 | 24.18 | 25.27 | 0.00 | 0.0% |
| SC-1.20 | 1 hour | 4558 | 22.82 | 22.72 | 0.33 | 22.77 | 11.31 | 14.15 | 16.33 | 22.77 | 21.67 | 22.77 | 0.00 | 0.0% |
| SC-1.21 | 1 hour | 4558 | 22.83 | 22.74 | 0.33 | 22.78 | 11.32 | 14.15 | 16.33 | 22.78 | 21.92 | 22.78 | 0.00 | 0.0% |
| SC-1.22 | 1 hour | 4558 | 22.91 | 22.82 | 0.33 | 22.85 | 11.34 | 14.18 | 16.37 | 22.85 | 22.99 | 22.99 | 0.14 | 0.6% |
| SC-1.23 | 1.50 hour | 4532 | 25.63 | 25.85 | 1.43 | 26.09 | 20.49 | 20.72 | 21.63 | 22.89 | 26.29 | 26.29 | 0.20 | 0.8% |
| SC-1.24 | 20 min | 4429 | 34.48 | 34.01 | 2.91 | 34.25 | 32.84 | 34.11 | 30.32 | 28.00 | 37.49 | 37.49 | 3.24 | 9.5% |
| SC-1.25 | 25 min | 4462 | 35.05 | 34.82 | 2.96 | 35.16 | 33.25 | 34.26 | 30.40 | 28.39 | 38.54 | 38.54 | 3.38 | 9.6% |
| SC-1.26 | 25 min | 4462 | 37.83 | 38.16 | 2.63 | 38.27 | 34.87 | 37.15 | 31.83 | 30.45 | 41.71 | 41.71 | 3.44 | 9.0% |
| SC-1.27 | 25 min | 4458 | 38.51 | 38.96 | 2.59 | 38.99 | 35.39 | 37.82 | 32.61 | 31.07 | 42.42 | 42.42 | 3.43 | 8.8% |
| SC-1.28 | 15 min | 4396 | 50.90 | 50.79 | 0.82 | 51.12 | 43.55 | 51.23 | 46.57 | 40.11 | 54.94 | 54.94 | 3.82 | 7.5% |
| SC-1.29 | 25 min | 4459 | 54.06 | 53.88 | 2.39 | 53.91 | 44.25 | 52.21 | 49.68 | 43.51 | 58.53 | 58.53 | 4.62 | 8.6% |
| SC-1.30 | 25 min | 4460 | 55.10 | 54.95 | 2.36 | 55.25 | 44.47 | 52.49 | 51.44 | 44.54 | 59.50 | 59.50 | 4.25 | 7.7% |
| SC-1.31 | 25 min | 4459 | 55.73 | 55.55 | 2.38 | 56.05 | 44.65 | 52.71 | 52.29 | 45.38 | 60.11 | 60.11 | 4.06 | 7.2% |
| SC-1.32 | 25 min | 4459 | 56.77 | 57.00 | 2.44 | 57.19 | 44.93 | 53.05 | 53.34 | 46.67 | 60.98 | 60.98 | 3.79 | 6.6% |
| SC-1.33 | 30 min | 4504 | 58.91 | 58.73 | 3.54 | 59.11 | 45.29 | 53.49 | 54.68 | 49.95 | 62.22 | 62.22 | 3.11 | 5.3% |
| SC-1.34 | 30 min | 4504 | 59.20 | 58.99 | 3.40 | 59.17 | 45.30 | 53.51 | 54.78 | 50.75 | 62.43 | 62.43 | 3.26 | 5.5% |
| SC-1.35 | 30 min | 4495 | 59.60 | 59.33 | 3.23 | 59.37 | 45.35 | 53.56 | 54.94 | 51.53 | 62.65 | 62.65 | 3.28 | 5.5% |
| SC-1.36 | 30 min | 4495 | 62.07 | 61.78 | 2.27 | 62.53 | 45.60 | 53.85 | 55.74 | 56.00 | 64.01 | 64.01 | 1.48 | 2.4% |
| SC-10.01 | 10 min | 4363 | 1.02 | 1.04 | 0.08 | 1.05 | 1.09 | 0.84 | 1.01 | 0.51 | 0.73 | 1.09 | 0.04 | 3.9% |
| SC-100.01 | 10 min | 4363 | 1.18 | 1.20 | 0.10 | 1.24 | 1.29 | 0.96 | 1.19 | 0.60 | 0.81 | 1.29 | 0.05 | 4.0% |
| SC-100.02 | 10 min | 4363 | 2.06 | 2.10 | 0.18 | 2.12 | 2.21 | 1.72 | 2.04 | 1.05 | 1.49 | 2.21 | 0.09 | 4.1% |
| SC-101.01 | 10 min | 4361 | 1.27 | 1.28 | 0.09 | 1.29 | 1.31 | 1.08 | 1.22 | 0.63 | 0.93 | 1.31 | 0.02 | 1.8% |
| SC-101.02 | 10 min | 4354 | 2.25 | 2.19 | 0.16 | 2.22 | 2.22 | 1.96 | 2.06 | 1.13 | 1.72 | 2.22 | 0.00 | -0.1% |
| SC-102.01 | 10 min | 4363 | 0.98 | 1.00 | 0.08 | 1.02 | 1.06 | 0.81 | 0.98 | 0.49 | 0.69 | 1.06 | 0.04 | 4.2% |
| SC-102.02 | 10 min | 4354 | 3.78 | 3.75 | 0.25 | 3.80 | 3.80 | 3.35 | 3.50 | 1.89 | 2.85 | 3.80 | 0.00 | 0.0% |
| SC-103.01 | 10 min | 4363 | 0.66 | 0.67 | 0.06 | 0.68 | 0.71 | 0.54 | 0.66 | 0.33 | 0.46 | 0.71 | 0.03 | 4.4% |
| SC-103.02 | 10 min | 4354 | 2.34 | 2.32 | 0.18 | 2.36 | 2.36 | 2.04 | 2.17 | 1.15 | 1.71 | 2.36 | 0.00 | 0.0% |
| SC-104.01 | 10 min | 4363 | 0.59 | 0.61 | 0.05 | 0.61 | 0.63 | 0.50 | 0.59 | 0.30 | 0.41 | 0.63 | 0.02 | 3.9% |
| SC-105.01 | 10 min | 4368 | 0.64 | 0.65 | 0.05 | 0.65 | 0.68 | 0.54 | 0.63 | 0.32 | 0.45 | 0.68 | 0.03 | 4.0% |
| SC-105.02 | 10 min | 4354 | 1.53 | 1.51 | 0.12 | 1.53 | 1.53 | 1.35 | 1.41 | 0.76 | 1.13 | 1.53 | 0.00 | 0.3% |
| SC-105.03 | 10 min | 4354 | 3.57 | 3.52 | 0.27 | 3.58 | 3.58 | 3.14 | 3.30 | 1.77 | 2.64 | 3.58 | 0.00 | -0.1% |
| SC-105.04 | 10 min | 4354 | 4.82 | 4.74 | 0.34 | 4.81 | 4.81 | 4.26 | 4.45 | 2.38 | 3.61 | 4.81 | 0.00 | -0.1% |
| SC-105.05 | 10 min | 4354 | 5.82 | 5.65 | 0.42 | 5.74 | 5.74 | 5.22 | 5.26 | 2.95 | 4.51 | 5.74 | 0.00 | -0.1% |
| SC-105.06 | 10 min | 4354 | 6.21 | 6.02 | 0.45 | 6.06 | 6.06 | 5.79 | 5.52 | 3.29 | 5.10 | 6.06 | 0.00 | 0.1% |
| SC-105.07 | 10 min | 4354 | 9.05 | 8.90 | 0.48 | 8.99 | 8.99 | 8.86 | 8.20 | 5.05 | 7.86 | 8.99 | 0.00 | 0.0% |
| SC-105.08 | 15 min | 4400 | 10.20 | 10.14 | 0.84 | 10.20 | 10.39 | 10.20 | 9.33 | 5.76 | 9.09 | 10.39 | 0.19 | 1.9% |
| SC-105.09 | 10 min | 4356 | 13.46 | 13.37 | 0.19 | 13.38 | 13.71 | 13.55 | 11.95 | 7.31 | 11.89 | 13.71 | 0.33 | 2.4% |
| SC-106.01 | 10 min | 4363 | 0.46 | 0.47 | 0.04 | 0.47 | 0.49 | 0.38 | 0.46 | 0.23 | 0.32 | 0.49 | 0.02 | 4.9% |
| SC-107.01 | 10 min | 4368 | 0.81 | 0.83 | 0.06 | 0.83 | 0.86 | 0.68 | 0.80 | 0.41 | 0.57 | 0.86 | 0.03 | 3.4% |
| SC-108.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.61 | 0.63 | 0.48 | 0.59 | 0.30 | 0.40 | 0.63 | 0.02 | 4.0% |
| SC-109.01 | 10 min | 4363 | 0.76 | 0.78 | 0.06 | 0.79 | 0.82 | 0.63 | 0.76 | 0.38 | 0.54 | 0.82 | 0.03 | 3.5% |
| SC-11.01 | 10 min | 4368 | 0.63 | 0.64 | 0.05 | 0.64 | 0.67 | 0.53 | 0.62 | 0.32 | 0.44 | 0.67 | 0.03 | 4.4% |
| SC-110.01 | 10 min | 4363 | 0.70 | 0.71 | 0.06 | 0.73 | 0.76 | 0.58 | 0.70 | 0.35 | 0.50 | 0.76 | 0.03 | 3.8% |
| SC-110.02 | 10 min | 4354 | 1.63 | 1.61 | 0.12 | 1.63 | 1.63 | 1.41 | 1.50 | 0.83 | 1.25 | 1.63 | 0.00 | 0.0% |
| SC-110.03 | 10 min | 4354 | 1.76 | 1.75 | 0.12 | 1.77 | 1.77 | 1.56 | 1.64 | 0.92 | 1.38 | 1.77 | 0.00 | 0.1% |
| SC-111.01 | 15 min | 4401 | 0.51 | 0.48 | 0.08 | 0.49 | 0.44 | 0.54 | 0.44 | 0.29 | 0.48 | 0.54 | 0.05 | 9.8% |
| SC-112.01 | 10 min | 4363 | 1.18 | 1.21 | 0.10 | 1.22 | 1.28 | 0.98 | 1.18 | 0.59 | 0.87 | 1.28 | 0.06 | 4.7% |
| SC-113.01 | 10 min | 4363 | 0.43 | 0.44 | 0.03 | 0.44 | 0.46 | 0.36 | 0.43 | 0.22 | 0.31 | 0.46 | 0.02 | 4.5% |
| SC-113.02 | 10 min | 4354 | 1.43 | 1.39 | 0.10 | 1.42 | 1.42 | 1.24 | 1.30 | 0.75 | 1.14 | 1.42 | 0.00 | -0.4% |
| SC-114.01 | 10 min | 4361 | 0.77 | 0.77 | 0.05 | 0.78 | 0.79 | 0.65 | 0.73 | 0.42 | 0.62 | 0.79 | 0.01 | 1.7% |
| SC-114.02 | 10 min | 4354 | 1.22 | 1.22 | 0.08 | 1.24 | 1.24 | 1.05 | 1.14 | 0.65 | 0.98 | 1.24 | 0.00 | -0.4% |
| SC-114.03 | 10 min | 4361 | 2.52 | 2.54 | 0.17 | 2.54 | 2.61 | 2.18 | 2.41 | 1.32 | 1.97 | 2.61 | 0.07 | 2.6% |
| SC-115.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.70 | 0.73 | 0.56 | 0.68 | 0.34 | 0.49 | 0.73 | 0.03 | 4.6% |
| SC-115.02 | 10 min | 4361 | 1.11 | 1.12 | 0.08 | 1.13 | 1.14 | 0.95 | 1.06 | 0.56 | 0.83 | 1.14 | 0.01 | 1.0% |
| SC-116.01 | 10 min | 4363 | 0.67 | 0.69 | 0.06 | 0.70 | 0.73 | 0.55 | 0.67 | 0.34 | 0.49 | 0.73 | 0.03 | 3.7% |
| SC-116.02 | 10 min | 4365 | 1.10 | 1.11 | 0.08 | 1.12 | 1.15 | 0.94 | 1.07 | 0.56 | 0.83 | 1.15 | 0.03 | 2.7% |
| SC-117.01 | 10 min | 4363 | 0.40 | 0.41 | 0.03 | 0.41 | 0.43 | 0.33 | 0.39 | 0.20 | 0.28 | 0.43 | 0.02 | 3.8% |
| SC-118.01 | 10 min | 4363 | 0.86 | 0.87 | 0.08 | 0.90 | 0.94 | 0.69 | 0.87 | 0.43 | 0.58 | 0.94 | 0.04 | 4.4% |
| SC-119.01 | 10 min | 4363 | 1.33 | 1.36 | 0.11 | 1.37 | 1.43 | 1.11 | 1.32 | 0.67 | 0.98 | 1.43 | 0.06 | 4.7% |
| SC-119.02 | 10 min | 4363 | 3.33 | 3.39 | 0.26 | 3.41 | 3.55 | 2.80 | 3.29 | 1.69 | 2.47 | 3.55 | 0.14 | 4.2% |
| SC-12.01 | 10 min | 4363 | 0.73 | 0.74 | 0.06 | 0.74 | 0.77 | 0.60 | 0.72 | 0.36 | 0.53 | 0.77 | 0.03 | 4.7% |
| SC-12.02 | 10 min | 4363 | 1.26 | 1.28 | 0.11 | 1.30 | 1.36 | 1.03 | 1.26 | 0.63 | 0.89 | 1.36 | 0.06 | 4.4% |
| SC-12.03 | 10 min | 4365 | 2.33 | 2.35 | 0.17 | 2.36 | 2.43 | 1.98 | 2.25 | 1.18 | 1.73 | 2.43 | 0.07 | 3.0% |
| SC-12.04 | 10 min | 4365 | 2.96 | 3.00 | 0.22 | 3.02 | 3.11 | 2.53 | 2.88 | 1.52 | 2.24 | 3.11 | 0.09 | 2.9% |
| SC-120.01 | 10 min | 4363 | 0.59 | 0.61 | 0.05 | 0.61 | 0.64 | 0.49 | 0.59 | 0.30 | 0.42 | 0.64 | 0.03 | 4.9% |
| SC-121.01 | 10 min | 4363 | 0.75 | 0.76 | 0.06 | 0.77 | 0.80 | 0.62 | 0.74 | 0.37 | 0.54 | 0.80 | 0.03 | 4.0% |
| SC-122.01 | 10 min | 4363 | 1.19 | 1.20 | 0.11 | 1.25 | 1.31 | 0.96 | 1.21 | 0.60 | 0.80 | 1.31 | 0.06 | 4.5% |
| SC-122.02 | 10 min | 4368 | 1.90 | 1.94 | 0.15 | 1.95 | 2.01 | 1.61 | 1.86 | 0.97 | 1.38 | 2.01 | 0.06 | 3.1% |
| SC-122.03 | 10 min | 4365 | 2.58 | 2.61 | 0.21 | 2.62 | 2.70 | 2.21 | 2.50 | 1.30 | 1.90 | 2.70 | 0.08 | 3.2% |
| SC-123.01 | 10 min | 4363 | 0.61 | 0.62 | 0.06 | 0.64 | 0.66 | 0.50 | 0.61 | 0.31 | 0.43 | 0.66 | 0.02 | 3.7% |
| SC-123.02 | 10 min | 4361 | 1.74 | 1.76 | 0.13 | 1.77 | 1.80 | 1.50 | 1.66 | 0.88 | 1.30 | 1.80 | 0.03 | 1.7% |
| SC-123.03 | 10 min | 4354 | 11.94 | 11.67 | 0.76 | 11.82 | 11.82 | 10.77 | 11.04 | 6.93 | 10.46 | 11.82 | 0.00 | 0.0% |
| SC-123.04 | 10 min | 4354 | 12.15 | 11.95 | 0.75 | 12.13 | 12.13 | 11.00 | 11.26 | 7.07 | 10.66 | 12.13 | 0.00 | 0.0% |
| SC-123.05 | 10 min | 4361 | 15.30 | 15.34 | 0.87 | 15.41 | 15.67 | 14.08 | 14.40 | 8.85 | 13.29 | 15.67 | 0.26 | 1.7% |
| SC-123.06 | 10 min | 4365 | 15.68 | 15.76 | 0.80 | 15.84 | 16.22 | 14.67 | 14.83 | 9.09 | 13.69 | 16.22 | 0.38 | 2.4% |
| SC-123.07 | 10 min | 4363 | 16.72 | 16.72 | 0.78 | 16.97 | 17.48 | 16.08 | 15.84 | 9.79 | 14.85 | 17.48 | 0.51 | 3.0% |
| SC-124.01 | 20 min | 4429 | 0.80 | 0.77 | 0.09 | 0.77 | 0.61 | 0.76 | 0.76 | 0.49 | 0.75 | 0.76 | -0.01 | -1.3% |
| SC-124.02 | 20 min | 4433 | 5.10 | 4.92 | 0.62 | 4.92 | 4.34 | 4.83 | 4.91 | 3.14 | 4.79 | 4.91 | -0.01 | -0.2% |
| SC-125.01 | 20 min | 4433 | 1.09 | 1.05 | 0.13 | 1.06 | 0.87 | 1.09 | 1.00 | 0.65 | 1.03 | 1.09 | 0.03 | 3.0% |
| SC-126.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.58 | 0.61 | 0.46 | 0.56 | 0.28 | 0.40 | 0.61 | 0.03 | 5.1% |
| SC-126.02 | 20 min | 4371 | 1.47 | 1.42 | 0.17 | 1.42 | 1.13 | 1.38 | 1.42 | 0.92 | 1.39 | 1.42 | 0.00 | 0.3% |
| SC-126.03 | 20 min | 4371 | 2.65 | 2.57 | 0.38 | 2.61 | 2.46 | 2.47 | 2.61 | 1.64 | 2.45 | 2.61 | 0.00 | 0.0% |
| SC-127.01 | 10 min | 4363 | 1.32 | 1.34 | 0.12 | 1.39 | 1.45 | 1.06 | 1.34 | 0.67 | 0.89 | 1.45 | 0.06 | 4.2% |
| SC-127.02 | 10 min | 4363 | 3.58 | 3.65 | 0.31 | 3.71 | 3.87 | 2.97 | 3.58 | 1.84 | 2.54 | 3.87 | 0.16 | 4.3% |
| SC-128.01 | 10 min | 4363 | 1.30 | 1.33 | 0.12 | 1.36 | 1.42 | 1.07 | 1.31 | 0.66 | 0.91 | 1.42 | 0.06 | 4.5% |
| SC-129.01 | 10 min | 4354 | 0.67 | 0.65 | 0.04 | 0.66 | 0.66 | 0.57 | 0.61 | 0.35 | 0.52 | 0.66 | 0.00 | 0.0% |
| SC-13.01 | 10 min | 4363 | 0.67 | 0.68 | 0.05 | 0.69 | 0.71 | 0.55 | 0.66 | 0.33 | 0.48 | 0.71 | 0.02 | 3.6% |
| SC-130.01 | 10 min | 4363 | 0.97 | 0.99 | 0.08 | 1.01 | 1.06 | 0.80 | 0.98 | 0.49 | 0.69 | 1.06 | 0.05 | 4.7% |
| SC-131.01 | 10 min | 4363 | 0.38 | 0.39 | 0.03 | 0.40 | 0.42 | 0.31 | 0.39 | 0.20 | 0.26 | 0.42 | 0.02 | 4.3% |
| SC-132.01 | 10 min | 4363 | 0.55 | 0.56 | 0.04 | 0.56 | 0.58 | 0.46 | 0.54 | 0.27 | 0.40 | 0.58 | 0.02 | 4.2% |
| SC-133.01 | 10 min | 4363 | 0.40 | 0.40 | 0.03 | 0.41 | 0.43 | 0.32 | 0.40 | 0.20 | 0.27 | 0.43 | 0.02 | 4.9% |
| SC-134.01 | 10 min | 4363 | 0.33 | 0.34 | 0.03 | 0.34 | 0.36 | 0.28 | 0.33 | 0.17 | 0.25 | 0.36 | 0.02 | 5.1% |
| SC-134.02 | 10 min | 4364 | 1.10 | 1.11 | 0.07 | 1.12 | 1.03 | 1.05 | 0.89 | 0.57 | 0.95 | 1.05 | -0.07 | -6.2% |
| SC-134.03 | 10 min | 4364 | 2.23 | 2.26 | 0.19 | 2.27 | 2.02 | 2.14 | 1.93 | 1.21 | 1.96 | 2.14 | -0.13 | -5.6% |
| SC-134.04 | 10 min | 4364 | 3.19 | 3.22 | 0.27 | 3.24 | 2.89 | 3.07 | 2.77 | 1.73 | 2.83 | 3.07 | -0.17 | -5.2% |
| SC-135.01 | 10 min | 4363 | 0.27 | 0.27 | 0.02 | 0.27 | 0.28 | 0.22 | 0.26 | 0.13 | 0.19 | 0.28 | 0.01 | 5.1% |
| SC-135.02 | 10 min | 4361 | 1.49 | 1.51 | 0.11 | 1.52 | 1.54 | 1.28 | 1.42 | 0.76 | 1.12 | 1.54 | 0.02 | 1.2% |
| SC-135.03 | 10 min | 4361 | 1.96 | 1.97 | 0.14 | 1.99 | 2.01 | 1.70 | 1.86 | 1.01 | 1.49 | 2.01 | 0.02 | 0.9% |
| SC-135.04 | 10 min | 4361 | 4.34 | 4.38 | 0.31 | 4.42 | 4.47 | 3.75 | 4.14 | 2.25 | 3.36 | 4.47 | 0.05 | 1.0% |
| SC-135.05 | 10 min | 4361 | 4.95 | 4.99 | 0.29 | 5.00 | 5.09 | 4.37 | 4.66 | 2.54 | 3.85 | 5.09 | 0.09 | 1.8% |
| SC-135.06 | 10 min | 4354 | 8.18 | 8.09 | 0.47 | 8.17 | 8.17 | 7.32 | 7.35 | 4.18 | 6.51 | 8.17 | 0.00 | 0.0% |
| SC-136.01 | 10 min | 4363 | 0.79 | 0.81 | 0.07 | 0.82 | 0.86 | 0.65 | 0.80 | 0.40 | 0.56 | 0.86 | 0.04 | 4.8% |
| SC-137.01 | 10 min | 4363 | 0.81 | 0.83 | 0.07 | 0.84 | 0.88 | 0.68 | 0.81 | 0.41 | 0.59 | 0.88 | 0.04 | 4.3% |
| SC-138.01 | 10 min | 4368 | 0.98 | 1.00 | 0.08 | 1.00 | 1.04 | 0.83 | 0.95 | 0.51 | 0.74 | 1.04 | 0.04 | 3.8% |
| SC-139.01 | 10 min | 4363 | 0.96 | 0.98 | 0.08 | 0.98 | 1.02 | 0.80 | 0.94 | 0.49 | 0.72 | 1.02 | 0.04 | 4.3% |
| SC-139.02 | 10 min | 4368 | 1.16 | 1.18 | 0.09 | 1.19 | 1.23 | 0.99 | 1.13 | 0.60 | 0.88 | 1.23 | 0.04 | 3.0% |
| SC-14.01 | 10 min | 4363 | 1.16 | 1.18 | 0.10 | 1.20 | 1.26 | 0.95 | 1.16 | 0.58 | 0.82 | 1.26 | 0.05 | 4.6% |
| SC-14.02 | 10 min | 4365 | 1.81 | 1.83 | 0.13 | 1.83 | 1.89 | 1.54 | 1.75 | 0.91 | 1.34 | 1.89 | 0.06 | 3.1% |
| SC-14.03 | 10 min | 4365 | 2.37 | 2.39 | 0.17 | 2.40 | 2.47 | 2.02 | 2.28 | 1.20 | 1.78 | 2.47 | 0.07 | 2.8% |
| SC-140.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.69 | 0.72 | 0.56 | 0.67 | 0.34 | 0.49 | 0.72 | 0.03 | 4.9% |
| SC-141.01 | 10 min | 4364 | 1.11 | 1.12 | 0.15 | 1.14 | 0.96 | 1.02 | 0.94 | 0.56 | 0.89 | 1.02 | -0.12 | -10.8% |
| SC-142.01 | 20 min | 4433 | 1.75 | 1.67 | 0.22 | 1.69 | 1.46 | 1.79 | 1.59 | 1.02 | 1.66 | 1.79 | 0.10 | 5.7% |

## ARR2019 Results for 0.5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120 min | | $m^3/s$ | % |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4400 | 4371 | 4558 | 4611 | | | |
| SC-143.01 | 20 min | 4367 | 0.66 | 0.66 | 0.08 | 0.67 | 0.57 | 0.60 | 0.67 | 0.44 | 0.63 | 0.67 | 0.00 | -0.3% |
| SC-143.02 | 10 min | 4364 | 5.48 | 5.36 | 0.52 | 5.41 | 5.14 | 4.88 | 4.93 | 3.03 | 4.59 | 5.14 | -0.27 | -5.0% |
| SC-144.01 | 10 min | 4365 | 0.78 | 0.79 | 0.06 | 0.80 | 0.82 | 0.66 | 0.76 | 0.43 | 0.63 | 0.82 | 0.02 | 2.6% |
| SC-144.02 | 10 min | 4361 | 1.12 | 1.13 | 0.08 | 1.13 | 1.16 | 0.96 | 1.07 | 0.63 | 0.93 | 1.16 | 0.03 | 2.3% |
| SC-144.03 | 10 min | 4365 | 1.50 | 1.50 | 0.06 | 1.50 | 1.54 | 1.40 | 1.39 | 0.87 | 1.30 | 1.54 | 0.04 | 2.5% |
| SC-144.04 | 10 min | 4364 | 2.67 | 2.65 | 0.06 | 2.66 | 2.63 | 2.57 | 2.26 | 1.42 | 2.33 | 2.63 | -0.03 | -1.2% |
| SC-144.05 | 10 min | 4364 | 4.99 | 5.00 | 0.25 | 5.02 | 4.74 | 4.63 | 4.06 | 2.61 | 4.20 | 4.74 | -0.28 | -5.7% |
| SC-145.01 | 10 min | 4363 | 0.99 | 1.01 | 0.09 | 1.03 | 1.07 | 0.83 | 0.99 | 0.51 | 0.70 | 1.07 | 0.04 | 4.2% |
| SC-145.02 | 10 min | 4368 | 1.84 | 1.88 | 0.17 | 1.89 | 1.97 | 1.57 | 1.81 | 0.91 | 1.31 | 1.97 | 0.08 | 4.0% |
| SC-146.01 | 15 min | 4401 | 1.99 | 1.89 | 0.27 | 1.91 | 1.71 | 2.10 | 1.68 | 1.10 | 1.88 | 2.10 | 0.19 | 9.8% |
| SC-147.01 | 10 min | 4364 | 0.99 | 1.00 | 0.11 | 1.01 | 0.86 | 0.91 | 0.81 | 0.48 | 0.80 | 0.91 | -0.10 | -10.1% |
| SC-147.02 | 10 min | 4364 | 1.35 | 1.37 | 0.14 | 1.38 | 1.20 | 1.28 | 1.12 | 0.69 | 1.13 | 1.28 | -0.10 | -7.0% |
| SC-147.03 | 10 min | 4364 | 3.45 | 3.45 | 0.42 | 3.49 | 3.03 | 3.27 | 2.98 | 1.80 | 2.84 | 3.27 | -0.22 | -6.3% |
| SC-148.01 | 10 min | 4365 | 0.83 | 0.84 | 0.06 | 0.85 | 0.87 | 0.70 | 0.81 | 0.41 | 0.59 | 0.87 | 0.02 | 2.3% |
| SC-148.02 | 10 min | 4364 | 1.85 | 1.79 | 0.20 | 1.81 | 1.71 | 1.70 | 1.58 | 0.93 | 1.42 | 1.71 | -0.11 | -5.8% |
| SC-149.01 | 10 min | 4354 | 0.60 | 0.60 | 0.04 | 0.61 | 0.61 | 0.53 | 0.59 | 0.37 | 0.54 | 0.61 | 0.00 | -0.3% |
| SC-149.02 | 10 min | 4364 | 2.00 | 1.96 | 0.22 | 1.99 | 1.82 | 1.84 | 1.78 | 1.08 | 1.65 | 1.84 | -0.16 | -7.8% |
| SC-15.01 | 10 min | 4363 | 1.18 | 1.21 | 0.10 | 1.22 | 1.28 | 0.98 | 1.18 | 0.59 | 0.87 | 1.28 | 0.06 | 4.7% |
| SC-15.02 | 10 min | 4363 | 1.56 | 1.58 | 0.13 | 1.60 | 1.67 | 1.30 | 1.55 | 0.80 | 1.16 | 1.67 | 0.07 | 4.5% |
| SC-15.03 | 10 min | 4365 | 2.49 | 2.52 | 0.19 | 2.54 | 2.61 | 2.11 | 2.41 | 1.28 | 1.89 | 2.61 | 0.07 | 2.9% |
| SC-150.01 | 10 min | 4363 | 0.71 | 0.72 | 0.06 | 0.73 | 0.77 | 0.58 | 0.71 | 0.36 | 0.50 | 0.77 | 0.04 | 4.8% |
| SC-150.02 | 10 min | 4368 | 1.39 | 1.42 | 0.11 | 1.42 | 1.47 | 1.17 | 1.36 | 0.71 | 1.05 | 1.47 | 0.05 | 3.5% |
| SC-150.03 | 10 min | 4361 | 3.56 | 3.59 | 0.26 | 3.61 | 3.67 | 3.06 | 3.39 | 1.82 | 2.71 | 3.67 | 0.06 | 1.6% |
| SC-150.04 | 10 min | 4365 | 4.61 | 4.65 | 0.32 | 4.67 | 4.79 | 4.04 | 4.41 | 2.38 | 3.55 | 4.79 | 0.12 | 2.6% |
| SC-150.05 | 10 min | 4361 | 6.41 | 6.46 | 0.41 | 6.46 | 6.59 | 5.68 | 6.01 | 3.33 | 5.03 | 6.59 | 0.13 | 1.9% |
| SC-150.06 | 10 min | 4354 | 11.83 | 11.82 | 0.59 | 11.93 | 11.93 | 10.63 | 10.81 | 6.19 | 9.55 | 11.93 | 0.00 | 0.0% |
| SC-150.07 | 10 min | 4354 | 18.66 | 18.30 | 1.11 | 18.49 | 18.49 | 16.83 | 17.03 | 9.81 | 15.30 | 18.49 | 0.00 | 0.0% |
| SC-150.08 | 2 hours | 4611 | 11.06 | 11.39 | 2.58 | 12.20 | 0.35 | 0.41 | 3.02 | 10.72 | 12.20 | 12.20 | 0.00 | 0.0% |
| SC-150.09 | 2 hours | 4611 | 11.71 | 11.86 | 2.72 | 12.58 | 2.89 | 2.54 | 3.10 | 11.35 | 12.58 | 12.58 | 0.00 | 0.0% |
| SC-150.10 | 2 hours | 4611 | 14.09 | 14.42 | 3.26 | 15.57 | 7.42 | 7.32 | 6.61 | 13.72 | 15.58 | 15.58 | 0.00 | 0.0% |
| SC-150.11 | 10 min | 4354 | 20.22 | 20.10 | 0.78 | 20.21 | 20.21 | 19.14 | 17.97 | 18.25 | 19.29 | 20.21 | 0.00 | 0.0% |
| SC-150.12 | 10 min | 4354 | 31.70 | 31.75 | 1.06 | 31.92 | 31.92 | 30.25 | 28.35 | 23.09 | 27.81 | 31.92 | 0.00 | 0.0% |
| SC-150.13 | 15 min | 4392 | 36.01 | 35.92 | 1.50 | 36.06 | 36.45 | 35.79 | 32.60 | 25.15 | 32.85 | 36.45 | 0.39 | 1.1% |
| SC-150.14 | 15 min | 4407 | 54.33 | 53.89 | 1.65 | 54.23 | 51.79 | 53.19 | 47.08 | 34.42 | 51.55 | 53.19 | -1.04 | -1.9% |
| SC-150.15 | 15 min | 4407 | 54.96 | 54.46 | 1.63 | 54.60 | 52.26 | 53.77 | 48.17 | 34.84 | 52.34 | 53.77 | -0.83 | -1.5% |
| SC-150.16 | 15 min | 4397 | 57.30 | 57.19 | 1.72 | 57.27 | 54.02 | 55.80 | 51.93 | 36.74 | 55.21 | 55.80 | -1.47 | -2.6% |
| SC-150.17 | 15 min | 4397 | 58.06 | 58.14 | 1.88 | 58.19 | 54.58 | 56.36 | 54.39 | 38.18 | 56.28 | 56.36 | -1.83 | -3.1% |
| SC-151.01 | 10 min | 4363 | 0.95 | 0.96 | 0.08 | 0.99 | 1.03 | 0.78 | 0.95 | 0.48 | 0.67 | 1.03 | 0.04 | 3.7% |
| SC-151.02 | 10 min | 4368 | 1.47 | 1.50 | 0.11 | 1.51 | 1.55 | 1.24 | 1.44 | 0.75 | 1.09 | 1.55 | 0.04 | 2.8% |
| SC-152.01 | 10 min | 4363 | 0.84 | 0.86 | 0.07 | 0.87 | 0.91 | 0.70 | 0.84 | 0.42 | 0.62 | 0.91 | 0.04 | 4.1% |
| SC-153.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.70 | 0.73 | 0.56 | 0.67 | 0.35 | 0.50 | 0.73 | 0.03 | 3.9% |
| SC-153.02 | 10 min | 4361 | 1.62 | 1.64 | 0.12 | 1.64 | 1.69 | 1.40 | 1.56 | 0.86 | 1.25 | 1.69 | 0.05 | 3.0% |
| SC-154.01 | 10 min | 4368 | 1.27 | 1.29 | 0.10 | 1.30 | 1.35 | 1.07 | 1.24 | 0.67 | 0.99 | 1.35 | 0.05 | 3.6% |
| SC-154.02 | 10 min | 4354 | 4.28 | 4.26 | 0.28 | 4.31 | 4.31 | 3.74 | 3.99 | 2.31 | 3.47 | 4.31 | 0.00 | 0.0% |
| SC-155.01 | 10 min | 4355 | 0.49 | 0.47 | 0.04 | 0.47 | 0.47 | 0.43 | 0.43 | 0.24 | 0.38 | 0.47 | 0.00 | -0.7% |
| SC-155.02 | 10 min | 4354 | 1.36 | 1.34 | 0.09 | 1.36 | 1.36 | 1.17 | 1.26 | 0.70 | 1.07 | 1.36 | 0.00 | 0.0% |
| SC-156.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.53 | 0.55 | 0.43 | 0.51 | 0.26 | 0.39 | 0.55 | 0.02 | 4.5% |
| SC-157.01 | 10 min | 4365 | 0.61 | 0.62 | 0.05 | 0.62 | 0.64 | 0.51 | 0.59 | 0.32 | 0.46 | 0.64 | 0.02 | 2.9% |
| SC-158.01 | 10 min | 4363 | 0.80 | 0.82 | 0.07 | 0.84 | 0.87 | 0.66 | 0.81 | 0.40 | 0.57 | 0.87 | 0.03 | 3.7% |
| SC-158.02 | 10 min | 4365 | 1.04 | 1.06 | 0.08 | 1.07 | 1.10 | 0.89 | 1.02 | 0.53 | 0.77 | 1.10 | 0.03 | 3.0% |
| SC-158.03 | 10 min | 4361 | 2.27 | 2.29 | 0.16 | 2.32 | 2.32 | 1.96 | 2.15 | 1.17 | 1.74 | 2.32 | 0.00 | 0.1% |
| SC-158.04 | 10 min | 4365 | 4.24 | 4.29 | 0.32 | 4.29 | 4.42 | 3.63 | 4.09 | 2.19 | 3.25 | 4.42 | 0.13 | 3.0% |
| SC-159.01 | 10 min | 4363 | 0.64 | 0.65 | 0.05 | 0.66 | 0.69 | 0.53 | 0.64 | 0.32 | 0.46 | 0.69 | 0.03 | 4.2% |
| SC-16.01 | 10 min | 4363 | 0.77 | 0.78 | 0.07 | 0.80 | 0.83 | 0.63 | 0.77 | 0.39 | 0.54 | 0.83 | 0.03 | 3.7% |
| SC-160.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.64 | 0.67 | 0.51 | 0.62 | 0.31 | 0.44 | 0.67 | 0.03 | 4.4% |
| SC-160.02 | 10 min | 4365 | 1.41 | 1.43 | 0.10 | 1.43 | 1.48 | 1.20 | 1.36 | 0.71 | 1.06 | 1.48 | 0.05 | 3.3% |
| SC-161.01 | 10 min | 4363 | 0.75 | 0.77 | 0.06 | 0.78 | 0.82 | 0.62 | 0.76 | 0.38 | 0.53 | 0.82 | 0.04 | 4.8% |
| SC-161.02 | 10 min | 4365 | 1.45 | 1.47 | 0.11 | 1.48 | 1.52 | 1.22 | 1.41 | 0.74 | 1.08 | 1.52 | 0.04 | 2.9% |
| SC-162.01 | 10 min | 4363 | 0.89 | 0.91 | 0.07 | 0.91 | 0.95 | 0.75 | 0.88 | 0.46 | 0.67 | 0.95 | 0.04 | 4.9% |
| SC-163.01 | 10 min | 4364 | 0.53 | 0.52 | 0.05 | 0.52 | 0.49 | 0.47 | 0.46 | 0.28 | 0.44 | 0.49 | -0.03 | -5.1% |
| SC-163.02 | 10 min | 4364 | 1.02 | 0.99 | 0.08 | 0.99 | 0.97 | 0.90 | 0.90 | 0.53 | 0.82 | 0.97 | -0.02 | -1.6% |
| SC-163.03 | 10 min | 4354 | 1.64 | 1.59 | 0.12 | 1.61 | 1.61 | 1.44 | 1.48 | 0.86 | 1.33 | 1.61 | 0.00 | -0.1% |
| SC-163.04 | 10 min | 4354 | 2.27 | 2.26 | 0.15 | 2.29 | 2.29 | 1.96 | 2.12 | 1.20 | 1.81 | 2.29 | 0.00 | -0.1% |
| SC-163.05 | 10 min | 4354 | 3.91 | 3.90 | 0.26 | 3.96 | 3.96 | 3.42 | 3.66 | 2.08 | 3.15 | 3.96 | 0.00 | -0.1% |
| SC-164.01 | 10 min | 4365 | 0.77 | 0.79 | 0.06 | 0.79 | 0.82 | 0.65 | 0.75 | 0.40 | 0.58 | 0.82 | 0.03 | 3.2% |
| SC-165.01 | 10 min | 4368 | 0.66 | 0.67 | 0.06 | 0.68 | 0.70 | 0.56 | 0.65 | 0.34 | 0.50 | 0.70 | 0.02 | 3.5% |
| SC-165.02 | 10 min | 4363 | 1.71 | 1.74 | 0.14 | 1.74 | 1.82 | 1.44 | 1.68 | 0.89 | 1.29 | 1.82 | 0.08 | 4.6% |
| SC-165.03 | 10 min | 4365 | 2.22 | 2.26 | 0.18 | 2.27 | 2.34 | 1.89 | 2.16 | 1.18 | 1.70 | 2.34 | 0.07 | 3.0% |
| SC-165.04 | 10 min | 4361 | 4.80 | 4.84 | 0.29 | 4.85 | 4.95 | 4.27 | 4.54 | 2.51 | 3.74 | 4.95 | 0.10 | 2.1% |
| SC-165.05 | 10 min | 4361 | 8.06 | 8.11 | 0.48 | 8.15 | 8.23 | 7.16 | 7.49 | 4.26 | 6.45 | 8.23 | 0.08 | 0.9% |
| SC-166.01 | 10 min | 4365 | 0.60 | 0.61 | 0.05 | 0.61 | 0.63 | 0.51 | 0.58 | 0.31 | 0.45 | 0.63 | 0.02 | 3.3% |
| SC-167.01 | 10 min | 4363 | 0.89 | 0.91 | 0.07 | 0.92 | 0.96 | 0.74 | 0.89 | 0.45 | 0.63 | 0.96 | 0.04 | 4.4% |
| SC-167.02 | 10 min | 4365 | 2.29 | 2.32 | 0.17 | 2.32 | 2.39 | 1.95 | 2.21 | 1.15 | 1.69 | 2.39 | 0.07 | 3.0% |
| SC-168.01 | 10 min | 4363 | 0.73 | 0.74 | 0.06 | 0.76 | 0.79 | 0.60 | 0.73 | 0.36 | 0.53 | 0.79 | 0.03 | 3.7% |
| SC-169.01 | 10 min | 4365 | 0.66 | 0.67 | 0.05 | 0.68 | 0.69 | 0.56 | 0.65 | 0.35 | 0.50 | 0.69 | 0.01 | 2.2% |
| SC-169.02 | 10 min | 4361 | 1.25 | 1.26 | 0.09 | 1.26 | 1.30 | 1.07 | 1.20 | 0.68 | 0.99 | 1.30 | 0.04 | 2.9% |
| SC-169.03 | 10 min | 4365 | 2.77 | 2.82 | 0.22 | 2.84 | 2.92 | 2.36 | 2.70 | 1.48 | 2.15 | 2.92 | 0.08 | 2.9% |
| SC-17.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.70 | 0.73 | 0.55 | 0.67 | 0.34 | 0.48 | 0.73 | 0.03 | 3.8% |
| SC-17.02 | 10 min | 4365 | 1.18 | 1.19 | 0.09 | 1.19 | 1.22 | 1.00 | 1.14 | 0.59 | 0.88 | 1.22 | 0.03 | 2.9% |
| SC-17.03 | 10 min | 4361 | 1.98 | 2.00 | 0.14 | 2.00 | 2.05 | 1.69 | 1.89 | 1.00 | 1.48 | 2.05 | 0.05 | 2.5% |
| SC-17.04 | 10 min | 4354 | 4.75 | 4.69 | 0.35 | 4.76 | 4.76 | 4.16 | 4.39 | 2.38 | 3.59 | 4.76 | 0.00 | 0.0% |
| SC-17.05 | 10 min | 4354 | 6.57 | 6.46 | 0.43 | 6.54 | 6.54 | 5.85 | 5.96 | 3.28 | 5.06 | 6.54 | 0.00 | -0.1% |
| SC-17.06 | 10 min | 4354 | 7.41 | 7.28 | 0.42 | 7.35 | 7.35 | 6.73 | 6.70 | 3.77 | 5.82 | 7.35 | 0.00 | -0.1% |
| SC-17.07 | 10 min | 4354 | 7.88 | 7.84 | 0.36 | 7.90 | 7.90 | 7.33 | 7.11 | 4.01 | 6.30 | 7.90 | 0.00 | 0.0% |
| SC-170.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.62 | 0.65 | 0.50 | 0.60 | 0.30 | 0.45 | 0.65 | 0.03 | 5.0% |
| SC-171.01 | 10 min | 4363 | 0.43 | 0.43 | 0.04 | 0.45 | 0.47 | 0.34 | 0.43 | 0.22 | 0.29 | 0.47 | 0.02 | 4.0% |
| SC-172.01 | 10 min | 4363 | 0.85 | 0.86 | 0.07 | 0.89 | 0.93 | 0.69 | 0.86 | 0.43 | 0.58 | 0.93 | 0.04 | 4.2% |
| SC-172.02 | 10 min | 4368 | 1.46 | 1.49 | 0.12 | 1.49 | 1.55 | 1.23 | 1.44 | 0.75 | 1.05 | 1.55 | 0.06 | 4.2% |
| SC-173.01 | 20 min | 4371 | 0.99 | 0.98 | 0.07 | 0.99 | 0.65 | 0.86 | 0.99 | 0.73 | 1.02 | 1.02 | 0.03 | 3.4% |
| SC-173.02 | 20 min | 4433 | 2.02 | 1.95 | 0.22 | 1.98 | 1.58 | 1.83 | 2.02 | 1.39 | 1.96 | 2.02 | 0.04 | 2.1% |
| SC-173.03 | 20 min | 4371 | 2.04 | 2.01 | 0.22 | 2.03 | 1.76 | 1.84 | 2.03 | 1.47 | 2.09 | 2.09 | 0.06 | 2.8% |
| SC-173.04 | 10 min | 4354 | 3.31 | 3.29 | 0.21 | 3.34 | 3.34 | 2.99 | 3.31 | 2.24 | 3.15 | 3.34 | 0.00 | -0.1% |
| SC-173.05 | 10 min | 4363 | 3.83 | 3.85 | 0.16 | 3.89 | 4.00 | 3.55 | 3.60 | 2.54 | 3.66 | 4.00 | 0.11 | 2.7% |
| SC-174.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.57 | 0.59 | 0.44 | 0.55 | 0.28 | 0.37 | 0.59 | 0.02 | 4.3% |
| SC-175.01 | 10 min | 4363 | 0.96 | 0.98 | 0.08 | 0.99 | 1.03 | 0.79 | 0.96 | 0.48 | 0.68 | 1.03 | 0.04 | 4.4% |
| SC-175.02 | 10 min | 4365 | 1.97 | 2.01 | 0.16 | 2.02 | 2.08 | 1.66 | 1.92 | 0.99 | 1.46 | 2.08 | 0.06 | 3.1% |
| SC-175.03 | 10 min | 4365 | 3.20 | 3.23 | 0.25 | 3.25 | 3.34 | 2.72 | 3.09 | 1.62 | 2.41 | 3.34 | 0.09 | 2.9% |
| SC-175.04 | 10 min | 4365 | 3.90 | 3.97 | 0.29 | 3.99 | 4.10 | 3.43 | 3.77 | 2.06 | 3.08 | 4.10 | 0.11 | 2.8% |
| SC-175.05 | 10 min | 4365 | 4.42 | 4.46 | 0.22 | 4.48 | 4.57 | 3.96 | 4.14 | 2.30 | 3.53 | 4.57 | 0.09 | 2.1% |
| SC-176.01 | 10 min | 4354 | 0.42 | 0.41 | 0.03 | 0.41 | 0.41 | 0.40 | 0.40 | 0.25 | 0.38 | 0.41 | 0.00 | 0.4% |
| SC-177.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.55 | 0.58 | 0.44 | 0.53 | 0.27 | 0.37 | 0.58 | 0.03 | 4.9% |
| SC-177.02 | 10 min | 4354 | 1.45 | 1.44 | 0.11 | 1.46 | 1.46 | 1.26 | 1.34 | 0.72 | 1.07 | 1.46 | 0.00 | -0.1% |
| SC-177.03 | 10 min | 4354 | 3.92 | 3.94 | 0.27 | 4.00 | 4.00 | 3.38 | 3.70 | 2.02 | 3.02 | 4.00 | 0.00 | 0.0% |
| SC-177.04 | 10 min | 4361 | 5.38 | 5.42 | 0.38 | 5.47 | 5.54 | 4.69 | 5.11 | 2.75 | 4.15 | 5.54 | 0.07 | 1.2% |
| SC-178.01 | 10 min | 4363 | 1.17 | 1.20 | 0.10 | 1.21 | 1.26 | 0.97 | 1.17 | 0.59 | 0.86 | 1.26 | 0.05 | 4.5% |
| SC-178.02 | 10 min | 4361 | 1.79 | 1.80 | 0.13 | 1.81 | 1.85 | 1.53 | 1.71 | 0.91 | 1.36 | 1.85 | 0.04 | 2.4% |
| SC-179.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.99 | 1.03 | 0.78 | 0.95 | 0.48 | 0.68 | 1.03 | 0.04 | 4.2% |
| SC-18.01 | 10 min | 4363 | 0.75 | 0.76 | 0.06 | 0.76 | 0.79 | 0.63 | 0.74 | 0.37 | 0.53 | 0.79 | 0.03 | 4.4% |
| SC-18.02 | 10 min | 4354 | 1.20 | 1.18 | 0.09 | 1.20 | 1.20 | 1.05 | 1.11 | 0.59 | 0.88 | 1.20 | 0.00 | -0.3% |
| SC-180.01 | 10 min | 4363 | 0.93 | 0.94 | 0.08 | 0.96 | 1.00 | 0.77 | 0.92 | 0.46 | 0.68 | 1.00 | 0.04 | 4.2% |
| SC-180.02 | 10 min | 4361 | 1.60 | 1.62 | 0.11 | 1.62 | 1.66 | 1.36 | 1.54 | 0.86 | 1.27 | 1.66 | 0.04 | 2.5% |
| SC-180.03 | 10 min | 4361 | 2.25 | 2.27 | 0.16 | 2.28 | 2.34 | 1.92 | 2.16 | 1.20 | 1.77 | 2.34 | 0.06 | 2.5% |
| SC-180.04 | 10 min | 4365 | 3.24 | 3.28 | 0.25 | 3.28 | 3.38 | 2.77 | 3.12 | 1.71 | 2.52 | 3.38 | 0.10 | 3.0% |
| SC-181.01 | 20 min | 4371 | 0.43 | 0.41 | 0.06 | 0.41 | 0.37 | 0.41 | 0.41 | 0.26 | 0.40 | 0.41 | 0.00 | 1.0% |
| SC-181.02 | 10 min | 4354 | 1.36 | 1.34 | 0.09 | 1.36 | 1.36 | 1.18 | 1.25 | 0.75 | 1.13 | 1.36 | 0.00 | -0.1% |
| SC-181.03 | 10 min | 4361 | 2.20 | 2.22 | 0.16 | 2.23 | 2.29 | 1.90 | 2.11 | 1.20 | 1.79 | 2.29 | 0.06 | 2.6% |
| SC-181.04 | 10 min | 4361 | 4.06 | 4.08 | 0.27 | 4.14 | 4.14 | 3.60 | 3.81 | 2.30 | 3.46 | 4.14 | 0.00 | 0.1% |
| SC-181.05 | 10 min | 4368 | 4.44 | 4.44 | 0.15 | 4.44 | 4.58 | 4.10 | 4.14 | 2.50 | 3.80 | 4.58 | 0.14 | 3.1% |
| SC-181.06 | 10 min | 4363 | 4.90 | 4.91 | 0.15 | 4.95 | 5.07 | 4.58 | 4.54 | 2.72 | 4.16 | 5.07 | 0.12 | 2.3% |
| SC-181.07 | 10 min | 4354 | 10.99 | 10.87 | 0.34 | 10.91 | 10.91 | 10.27 | 9.70 | 5.76 | 9.27 | 10.91 | 0.00 | 0.0% |
| SC-181.08 | 10 min | 4354 | 11.34 | 11.29 | 0.27 | 11.32 | 11.32 | 10.70 | 10.03 | 5.95 | 9.56 | 11.32 | 0.00 | 0.0% |
| SC-182.01 | 10 min | 4363 | 0.65 | 0.67 | 0.05 | 0.67 | 0.70 | 0.54 | 0.65 | 0.33 | 0.48 | 0.70 | 0.03 | 4.7% |
| SC-182.02 | 10 min | 4361 | 1.07 | 1.08 | 0.07 | 1.09 | 1.10 | 0.91 | 1.01 | 0.56 | 0.83 | 1.10 | 0.00 | 0.5% |
| SC-182.03 | 10 min | 4354 | 1.74 | 1.69 | 0.12 | 1.70 | 1.70 | 1.59 | 1.64 | 1.01 | 1.53 | 1.70 | 0.00 | -0.1% |
| SC-183.01 | 10 min | 4354 | 0.64 | 0.63 | 0.04 | 0.64 | 0.64 | 0.58 | 0.59 | 0.36 | 0.55 | 0.64 | 0.00 | 0.5% |
| SC-183.02 | 10 min | 4361 | 1.44 | 1.45 | 0.09 | 1.46 | 1.48 | 1.23 | 1.36 | 0.78 | 1.17 | 1.48 | 0.02 | 1.0% |
| SC-183.03 | 10 min | 4361 | 3.56 | 3.58 | 0.21 | 3.61 | 3.63 | 3.14 | 3.31 | 1.89 | 2.88 | 3.63 | 0.02 | 0.6% |
| SC-183.04 | 10 min | 4365 | 4.09 | 4.11 | 0.20 | 4.12 | 4.19 | 3.73 | 3.75 | 2.14 | 3.32 | 4.19 | 0.07 | 1.7% |
| SC-184.01 | 10 min | 4363 | 1.53 | 1.55 | 0.12 | 1.56 | 1.62 | 1.27 | 1.50 | 0.79 | 1.17 | 1.62 | 0.06 | 4.1% |
| SC-185.01 | 10 min | 4363 | 0.89 | 0.91 | 0.08 | 0.93 | 0.97 | 0.74 | 0.90 | 0.45 | 0.64 | 0.97 | 0.04 | 4.2% |

## ARR2019 Results for 0.5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4400 | 4371 | 4558 | 4611 | | $m^3/s$ | % |
| SC-185.02 | 10 min | 4365 | 2.01 | 2.04 | 0.16 | 2.05 | 2.12 | 1.70 | 1.95 | 1.01 | 1.50 | 2.12 | 0.07 | 3.2% |
| SC-186.01 | 10 min | 4363 | 0.31 | 0.32 | 0.03 | 0.32 | 0.34 | 0.26 | 0.31 | 0.17 | 0.24 | 0.34 | 0.02 | 5.6% |
| SC-187.01 | 10 min | 4363 | 0.90 | 0.92 | 0.08 | 0.94 | 0.98 | 0.75 | 0.90 | 0.46 | 0.64 | 0.98 | 0.04 | 3.8% |
| SC-187.02 | 10 min | 4368 | 1.78 | 1.81 | 0.14 | 1.82 | 1.88 | 1.49 | 1.73 | 0.90 | 1.33 | 1.88 | 0.05 | 3.0% |
| SC-187.03 | 10 min | 4363 | 2.07 | 2.10 | 0.14 | 2.13 | 2.21 | 1.81 | 2.03 | 1.07 | 1.59 | 2.21 | 0.08 | 3.8% |
| SC-187.04 | 10 min | 4366 | 2.69 | 2.65 | 0.10 | 2.67 | 2.81 | 2.44 | 2.51 | 1.34 | 2.08 | 2.81 | 0.14 | 5.4% |
| SC-187.05 | 10 min | 4356 | 3.18 | 3.17 | 0.08 | 3.18 | 3.27 | 2.92 | 2.87 | 1.53 | 2.46 | 3.27 | 0.09 | 2.8% |
| SC-188.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.99 | 1.03 | 0.79 | 0.95 | 0.48 | 0.67 | 1.03 | 0.04 | 3.6% |
| SC-188.02 | 10 min | 4361 | 1.43 | 1.44 | 0.10 | 1.44 | 1.48 | 1.22 | 1.37 | 0.71 | 1.05 | 1.48 | 0.04 | 2.8% |
| SC-189.01 | 10 min | 4363 | 1.08 | 1.10 | 0.09 | 1.12 | 1.17 | 0.89 | 1.08 | 0.54 | 0.76 | 1.17 | 0.05 | 4.2% |
| SC-189.02 | 10 min | 4363 | 1.93 | 1.97 | 0.16 | 1.98 | 2.06 | 1.62 | 1.91 | 1.00 | 1.45 | 2.06 | 0.08 | 4.1% |
| SC-19.01 | 10 min | 4354 | 0.46 | 0.45 | 0.04 | 0.45 | 0.45 | 0.42 | 0.41 | 0.23 | 0.35 | 0.45 | 0.00 | -0.6% |
| SC-190.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.49 | 0.51 | 0.40 | 0.47 | 0.24 | 0.32 | 0.51 | 0.02 | 3.4% |
| SC-191.01 | 10 min | 4363 | 0.86 | 0.88 | 0.07 | 0.90 | 0.93 | 0.71 | 0.86 | 0.44 | 0.61 | 0.93 | 0.03 | 3.7% |
| SC-191.02 | 10 min | 4365 | 1.26 | 1.28 | 0.09 | 1.28 | 1.32 | 1.07 | 1.22 | 0.63 | 0.93 | 1.32 | 0.04 | 3.0% |
| SC-191.03 | 10 min | 4361 | 2.34 | 2.36 | 0.16 | 2.38 | 2.41 | 2.00 | 2.23 | 1.20 | 1.79 | 2.41 | 0.03 | 1.3% |
| SC-191.04 | 10 min | 4361 | 3.42 | 3.45 | 0.25 | 3.47 | 3.54 | 2.93 | 3.27 | 1.75 | 2.61 | 3.54 | 0.07 | 2.0% |
| SC-191.05 | 10 min | 4361 | 4.75 | 4.79 | 0.31 | 4.84 | 4.85 | 4.16 | 4.42 | 2.43 | 3.72 | 4.85 | 0.01 | 0.2% |
| SC-191.06 | 10 min | 4354 | 8.17 | 8.19 | 0.49 | 8.29 | 8.29 | 7.29 | 7.63 | 4.59 | 6.84 | 8.29 | 0.00 | 0.0% |
| SC-191.07 | 10 min | 4354 | 9.93 | 9.79 | 0.55 | 9.89 | 9.89 | 9.10 | 8.97 | 5.55 | 8.51 | 9.89 | 0.00 | 0.0% |
| SC-191.08 | 10 min | 4363 | 10.71 | 10.82 | 0.52 | 10.85 | 11.08 | 10.39 | 9.90 | 6.22 | 9.63 | 11.08 | 0.23 | 2.1% |
| SC-192.01 | 10 min | 4365 | 2.75 | 2.81 | 0.22 | 2.82 | 2.91 | 2.33 | 2.68 | 1.46 | 2.12 | 2.91 | 0.09 | 3.3% |
| SC-193.01 | 10 min | 4365 | 1.26 | 1.27 | 0.09 | 1.28 | 1.32 | 1.06 | 1.22 | 0.68 | 1.01 | 1.32 | 0.04 | 3.2% |
| SC-194.01 | 10 min | 4354 | 1.30 | 1.27 | 0.09 | 1.28 | 1.28 | 1.21 | 1.23 | 0.76 | 1.16 | 1.28 | 0.00 | -0.2% |
| SC-194.02 | 20 min | 4429 | 5.34 | 5.27 | 0.48 | 5.30 | 3.73 | 4.84 | 5.18 | 3.61 | 5.25 | 5.25 | -0.05 | -0.9% |
| SC-194.03 | 20 min | 4429 | 5.60 | 5.46 | 0.41 | 5.51 | 4.30 | 5.04 | 5.36 | 4.06 | 5.98 | 5.98 | 0.47 | 8.5% |
| SC-195.01 | 20 min | 4433 | 1.85 | 1.85 | 0.15 | 1.85 | 1.24 | 1.69 | 1.74 | 1.20 | 1.79 | 1.79 | -0.06 | -3.4% |
| SC-196.01 | 10 min | 4361 | 4.15 | 4.18 | 0.28 | 4.22 | 4.26 | 3.59 | 3.92 | 2.42 | 3.57 | 4.26 | 0.04 | 0.8% |
| SC-197.01 | 10 min | 4364 | 2.78 | 2.71 | 0.20 | 2.71 | 2.68 | 2.58 | 2.55 | 1.58 | 2.43 | 2.68 | -0.03 | -1.2% |
| SC-198.01 | 20 min | 4399 | 2.70 | 2.61 | 0.30 | 2.61 | 2.21 | 2.82 | 2.31 | 1.53 | 2.56 | 2.82 | 0.21 | 8.2% |
| SC-2.01 | 10 min | 4364 | 0.60 | 0.58 | 0.04 | 0.58 | 0.58 | 0.54 | 0.54 | 0.33 | 0.51 | 0.58 | 0.00 | -0.8% |
| SC-20.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.60 | 0.63 | 0.49 | 0.58 | 0.30 | 0.41 | 0.63 | 0.03 | 4.4% |
| SC-200.01 | 10 min | 4365 | 0.85 | 0.86 | 0.07 | 0.87 | 0.90 | 0.72 | 0.83 | 0.45 | 0.65 | 0.90 | 0.03 | 3.1% |
| SC-200.02 | 10 min | 4363 | 1.50 | 1.52 | 0.12 | 1.53 | 1.59 | 1.26 | 1.47 | 0.82 | 1.17 | 1.59 | 0.06 | 4.2% |
| SC-200.03 | 10 min | 4361 | 2.81 | 2.83 | 0.20 | 2.86 | 2.89 | 2.42 | 2.68 | 1.58 | 2.29 | 2.89 | 0.03 | 1.1% |
| SC-200.04 | 10 min | 4354 | 4.19 | 4.12 | 0.31 | 4.18 | 4.18 | 3.67 | 3.85 | 2.30 | 3.41 | 4.18 | 0.00 | 0.1% |
| SC-200.05 | 10 min | 4354 | 6.76 | 6.76 | 0.41 | 6.85 | 6.85 | 6.00 | 6.27 | 3.59 | 5.36 | 6.85 | 0.00 | 0.1% |
| SC-200.06 | 10 min | 4364 | 10.55 | 10.37 | 0.77 | 10.45 | 10.01 | 9.86 | 8.96 | 5.71 | 8.96 | 10.01 | -0.44 | -4.2% |
| SC-200.07 | 10 min | 4364 | 12.33 | 12.19 | 0.87 | 12.28 | 11.66 | 11.80 | 10.40 | 6.73 | 10.72 | 11.80 | -0.48 | -3.9% |
| SC-200.08 | 10 min | 4364 | 14.10 | 13.78 | 0.79 | 13.86 | 13.62 | 13.91 | 11.77 | 7.75 | 12.41 | 13.91 | 0.05 | 0.3% |
| SC-200.09 | 10 min | 4363 | 20.55 | 20.53 | 0.19 | 20.54 | 20.55 | 21.19 | 17.36 | 11.16 | 18.32 | 21.19 | 0.65 | 3.1% |
| SC-201.01 | 10 min | 4363 | 1.07 | 1.09 | 0.09 | 1.11 | 1.16 | 0.88 | 1.07 | 0.54 | 0.76 | 1.16 | 0.05 | 4.4% |
| SC-202.01 | 10 min | 4363 | 1.09 | 1.10 | 0.10 | 1.14 | 1.19 | 0.88 | 1.10 | 0.55 | 0.74 | 1.19 | 0.05 | 4.3% |
| SC-203.01 | 10 min | 4368 | 1.10 | 1.13 | 0.08 | 1.13 | 1.17 | 0.93 | 1.08 | 0.55 | 0.81 | 1.17 | 0.04 | 3.4% |
| SC-204.01 | 10 min | 4364 | 1.49 | 1.47 | 0.16 | 1.49 | 1.37 | 1.34 | 1.28 | 0.77 | 1.20 | 1.37 | -0.12 | -8.3% |
| SC-205.01 | 20 min | 4433 | 0.62 | 0.60 | 0.08 | 0.60 | 0.52 | 0.63 | 0.57 | 0.37 | 0.59 | 0.63 | 0.03 | 5.1% |
| SC-206.01 | 10 min | 4364 | 4.76 | 4.82 | 0.46 | 4.86 | 4.23 | 4.52 | 3.99 | 2.45 | 4.06 | 4.52 | -0.34 | -7.0% |
| SC-207.01 | 10 min | 4363 | 1.04 | 1.06 | 0.09 | 1.06 | 1.11 | 0.87 | 1.02 | 0.53 | 0.75 | 1.11 | 0.05 | 4.8% |
| SC-207.02 | 10 min | 4361 | 2.03 | 2.05 | 0.15 | 2.06 | 2.10 | 1.75 | 1.95 | 1.05 | 1.54 | 2.10 | 0.04 | 1.9% |
| SC-207.03 | 10 min | 4361 | 2.26 | 2.27 | 0.17 | 2.30 | 2.32 | 1.98 | 2.13 | 1.19 | 1.78 | 2.32 | 0.02 | 0.8% |
| SC-207.04 | 10 min | 4354 | 6.28 | 6.22 | 0.28 | 6.27 | 6.27 | 5.72 | 5.70 | 3.26 | 5.09 | 6.27 | 0.00 | 0.0% |
| SC-207.05 | 10 min | 4354 | 8.40 | 8.27 | 0.31 | 8.27 | 8.27 | 7.77 | 7.37 | 4.30 | 6.90 | 8.27 | 0.00 | 0.0% |
| SC-207.06 | 10 min | 4364 | 9.09 | 9.05 | 0.20 | 9.07 | 8.97 | 8.52 | 7.93 | 4.61 | 7.45 | 8.97 | -0.11 | -1.2% |
| SC-207.07 | 10 min | 4364 | 15.16 | 15.20 | 0.82 | 15.27 | 14.33 | 14.60 | 12.22 | 8.25 | 13.58 | 14.60 | -0.67 | -4.4% |
| SC-207.08 | 10 min | 4364 | 22.89 | 22.59 | 0.70 | 22.65 | 22.49 | 22.40 | 19.63 | 12.49 | 20.21 | 22.49 | -0.16 | -0.7% |
| SC-207.09 | 10 min | 4354 | 26.14 | 25.96 | 0.60 | 25.98 | 25.98 | 26.14 | 22.50 | 14.36 | 23.55 | 26.14 | 0.16 | 0.6% |
| SC-207.10 | 10 min | 4354 | 26.73 | 26.55 | 0.52 | 26.56 | 26.56 | 27.02 | 23.25 | 14.96 | 24.53 | 27.02 | 0.46 | 1.7% |
| SC-207.11 | 15 min | 4393 | 28.80 | 28.91 | 1.02 | 28.94 | 28.28 | 29.22 | 24.86 | 16.25 | 26.67 | 29.22 | 0.28 | 1.0% |
| SC-207.12 | 15 min | 4358 | 41.46 | 41.44 | 2.12 | 41.88 | 41.17 | 42.35 | 36.08 | 23.07 | 37.92 | 42.35 | 0.47 | 1.1% |
| SC-207.13 | 15 min | 4358 | 43.73 | 43.81 | 1.90 | 44.27 | 43.11 | 44.90 | 37.88 | 24.69 | 40.46 | 44.90 | 0.63 | 1.4% |
| SC-207.14 | 15 min | 4358 | 45.20 | 45.37 | 1.55 | 45.46 | 44.14 | 46.27 | 39.06 | 25.82 | 42.09 | 46.27 | 0.81 | 1.8% |
| SC-208.01 | 10 min | 4363 | 1.11 | 1.12 | 0.10 | 1.17 | 1.22 | 0.90 | 1.12 | 0.56 | 0.75 | 1.22 | 0.05 | 3.8% |
| SC-208.02 | 10 min | 4363 | 1.58 | 1.62 | 0.13 | 1.63 | 1.70 | 1.32 | 1.58 | 0.81 | 1.13 | 1.70 | 0.07 | 4.4% |
| SC-208.03 | 10 min | 4363 | 2.12 | 2.16 | 0.18 | 2.17 | 2.26 | 1.78 | 2.09 | 1.08 | 1.55 | 2.26 | 0.09 | 4.2% |
| SC-208.04 | 10 min | 4365 | 3.34 | 3.37 | 0.20 | 3.38 | 3.45 | 2.91 | 3.13 | 1.67 | 2.57 | 3.45 | 0.07 | 2.0% |
| SC-208.05 | 10 min | 4365 | 3.85 | 3.87 | 0.13 | 3.87 | 3.91 | 3.44 | 3.49 | 1.93 | 3.02 | 3.91 | 0.04 | 1.1% |
| SC-209.01 | 10 min | 4363 | 0.70 | 0.71 | 0.06 | 0.72 | 0.75 | 0.58 | 0.69 | 0.37 | 0.52 | 0.75 | 0.03 | 3.7% |
| SC-21.01 | 10 min | 4363 | 0.84 | 0.85 | 0.07 | 0.87 | 0.90 | 0.69 | 0.84 | 0.42 | 0.59 | 0.90 | 0.03 | 3.8% |
| SC-210.01 | 10 min | 4363 | 1.56 | 1.59 | 0.14 | 1.62 | 1.69 | 1.29 | 1.56 | 0.78 | 1.13 | 1.69 | 0.07 | 4.4% |
| SC-210.02 | 10 min | 4365 | 2.17 | 2.21 | 0.17 | 2.22 | 2.29 | 1.83 | 2.11 | 1.10 | 1.63 | 2.29 | 0.07 | 3.0% |
| SC-211.01 | 20 min | 4429 | 0.63 | 0.62 | 0.06 | 0.62 | 0.44 | 0.58 | 0.61 | 0.41 | 0.61 | 0.61 | -0.01 | -2.1% |
| SC-211.02 | 25 min | 4462 | 1.35 | 1.37 | 0.12 | 1.39 | 0.84 | 1.15 | 1.30 | 0.97 | 1.43 | 1.43 | 0.04 | 3.1% |
| SC-211.03 | 20 min | 4399 | 2.17 | 2.14 | 0.16 | 2.14 | 1.54 | 1.97 | 2.07 | 1.58 | 2.30 | 2.30 | 0.16 | 7.6% |
| SC-211.04 | 20 min | 4399 | 2.56 | 2.53 | 0.19 | 2.54 | 2.02 | 2.45 | 2.34 | 1.84 | 2.72 | 2.72 | 0.18 | 7.1% |
| SC-212.01 | 1 hour | 4405 | 0.23 | 0.23 | 0.02 | 0.23 | 0.12 | 0.16 | 0.19 | 0.23 | 0.25 | 0.25 | 0.02 | 7.5% |
| SC-212.02 | 20 min | 4433 | 0.48 | 0.47 | 0.05 | 0.47 | 0.35 | 0.45 | 0.45 | 0.37 | 0.50 | 0.50 | 0.03 | 7.3% |
| SC-213.01 | 10 min | 4363 | 0.64 | 0.65 | 0.05 | 0.67 | 0.69 | 0.52 | 0.64 | 0.33 | 0.44 | 0.69 | 0.02 | 3.6% |
| SC-213.02 | 10 min | 4368 | 1.08 | 1.11 | 0.09 | 1.11 | 1.15 | 0.91 | 1.07 | 0.54 | 0.78 | 1.15 | 0.04 | 3.9% |
| SC-214.01 | 10 min | 4363 | 0.79 | 0.81 | 0.07 | 0.82 | 0.85 | 0.66 | 0.79 | 0.40 | 0.56 | 0.85 | 0.03 | 4.0% |
| SC-214.02 | 10 min | 4363 | 1.71 | 1.74 | 0.15 | 1.77 | 1.85 | 1.42 | 1.71 | 0.86 | 1.20 | 1.85 | 0.08 | 4.4% |
| SC-215.01 | 10 min | 4363 | 0.64 | 0.65 | 0.05 | 0.66 | 0.69 | 0.54 | 0.63 | 0.33 | 0.48 | 0.69 | 0.03 | 4.0% |
| SC-215.02 | 10 min | 4361 | 1.16 | 1.17 | 0.08 | 1.18 | 1.20 | 1.00 | 1.11 | 0.60 | 0.89 | 1.20 | 0.02 | 1.9% |
| SC-216.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.62 | 0.65 | 0.47 | 0.60 | 0.30 | 0.40 | 0.65 | 0.03 | 4.7% |
| SC-216.02 | 10 min | 4363 | 1.80 | 1.83 | 0.15 | 1.87 | 1.95 | 1.48 | 1.81 | 0.93 | 1.25 | 1.95 | 0.08 | 4.1% |
| SC-216.03 | 10 min | 4368 | 2.86 | 2.92 | 0.24 | 2.92 | 3.04 | 2.41 | 2.81 | 1.47 | 2.07 | 3.04 | 0.12 | 3.9% |
| SC-216.04 | 10 min | 4366 | 4.00 | 3.98 | 0.21 | 4.08 | 4.25 | 3.62 | 3.85 | 2.01 | 3.03 | 4.25 | 0.17 | 4.3% |
| SC-217.01 | 10 min | 4363 | 0.42 | 0.42 | 0.04 | 0.44 | 0.46 | 0.34 | 0.43 | 0.22 | 0.28 | 0.46 | 0.02 | 4.5% |
| SC-218.01 | 10 min | 4363 | 0.32 | 0.32 | 0.03 | 0.34 | 0.35 | 0.26 | 0.33 | 0.16 | 0.22 | 0.35 | 0.01 | 3.2% |
| SC-219.01 | 10 min | 4363 | 0.42 | 0.43 | 0.04 | 0.44 | 0.46 | 0.34 | 0.43 | 0.22 | 0.29 | 0.46 | 0.02 | 4.5% |
| SC-22.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.48 | 0.50 | 0.39 | 0.47 | 0.24 | 0.33 | 0.50 | 0.02 | 4.5% |
| SC-220.01 | 10 min | 4363 | 0.65 | 0.67 | 0.06 | 0.68 | 0.71 | 0.54 | 0.65 | 0.33 | 0.46 | 0.71 | 0.03 | 3.9% |
| SC-221.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.63 | 0.65 | 0.50 | 0.60 | 0.30 | 0.43 | 0.65 | 0.02 | 3.3% |
| SC-221.02 | 10 min | 4354 | 1.32 | 1.32 | 0.09 | 1.33 | 1.33 | 1.14 | 1.24 | 0.66 | 0.99 | 1.33 | 0.00 | 0.3% |
| SC-221.03 | 10 min | 4361 | 1.62 | 1.63 | 0.11 | 1.65 | 1.67 | 1.41 | 1.54 | 0.82 | 1.23 | 1.67 | 0.02 | 0.9% |
| SC-221.04 | 10 min | 4361 | 2.37 | 2.39 | 0.17 | 2.40 | 2.45 | 2.03 | 2.26 | 1.21 | 1.80 | 2.45 | 0.05 | 1.9% |
| SC-221.05 | 10 min | 4354 | 3.06 | 3.06 | 0.20 | 3.10 | 3.10 | 2.68 | 2.83 | 1.55 | 2.39 | 3.10 | 0.00 | -0.1% |
| SC-221.06 | 10 min | 4361 | 3.22 | 3.23 | 0.19 | 3.25 | 3.27 | 2.87 | 2.99 | 1.66 | 2.55 | 3.27 | 0.02 | 0.6% |
| SC-222.01 | 10 min | 4363 | 0.66 | 0.67 | 0.06 | 0.68 | 0.71 | 0.54 | 0.66 | 0.33 | 0.48 | 0.71 | 0.03 | 4.3% |
| SC-222.02 | 10 min | 4361 | 1.05 | 1.06 | 0.08 | 1.07 | 1.09 | 0.90 | 1.01 | 0.54 | 0.80 | 1.09 | 0.02 | 2.1% |
| SC-222.03 | 10 min | 4364 | 2.40 | 2.34 | 0.24 | 2.37 | 2.23 | 2.17 | 2.11 | 1.26 | 1.94 | 2.23 | -0.14 | -5.7% |
| SC-223.01 | 10 min | 4363 | 0.28 | 0.29 | 0.02 | 0.29 | 0.30 | 0.23 | 0.28 | 0.14 | 0.20 | 0.30 | 0.01 | 3.8% |
| SC-224.01 | 15 min | 4401 | 0.82 | 0.76 | 0.13 | 0.78 | 0.74 | 0.84 | 0.67 | 0.43 | 0.75 | 0.84 | 0.06 | 7.9% |
| SC-225.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.54 | 0.56 | 0.43 | 0.52 | 0.26 | 0.38 | 0.56 | 0.02 | 4.1% |
| SC-226.01 | 10 min | 4363 | 0.38 | 0.39 | 0.03 | 0.40 | 0.42 | 0.31 | 0.39 | 0.20 | 0.26 | 0.42 | 0.02 | 4.5% |
| SC-226.02 | 10 min | 4354 | 0.91 | 0.91 | 0.07 | 0.93 | 0.93 | 0.79 | 0.85 | 0.45 | 0.67 | 0.93 | 0.00 | -0.3% |
| SC-226.03 | 10 min | 4354 | 1.89 | 1.87 | 0.13 | 1.90 | 1.90 | 1.64 | 1.75 | 0.95 | 1.43 | 1.90 | 0.00 | -0.2% |
| SC-226.04 | 10 min | 4361 | 2.82 | 2.84 | 0.20 | 2.87 | 2.90 | 2.45 | 2.68 | 1.45 | 2.17 | 2.90 | 0.02 | 0.9% |
| SC-226.05 | 10 min | 4361 | 11.23 | 11.30 | 0.76 | 11.41 | 11.50 | 9.93 | 10.58 | 5.92 | 8.90 | 11.50 | 0.09 | 0.8% |
| SC-226.06 | 10 min | 4365 | 12.39 | 12.38 | 0.61 | 12.44 | 12.72 | 11.25 | 11.55 | 6.48 | 9.91 | 12.72 | 0.28 | 2.2% |
| SC-226.07 | 10 min | 4363 | 13.44 | 13.44 | 0.48 | 13.57 | 13.93 | 12.55 | 12.52 | 7.06 | 10.83 | 13.93 | 0.36 | 2.6% |
| SC-226.08 | 10 min | 4363 | 14.02 | 14.02 | 0.50 | 14.28 | 14.62 | 13.24 | 13.09 | 7.37 | 11.37 | 14.62 | 0.34 | 2.3% |
| SC-227.01 | 10 min | 4363 | 0.20 | 0.21 | 0.02 | 0.21 | 0.22 | 0.17 | 0.20 | 0.10 | 0.14 | 0.22 | 0.01 | 3.4% |
| SC-228.01 | 10 min | 4363 | 0.43 | 0.44 | 0.04 | 0.45 | 0.46 | 0.35 | 0.43 | 0.22 | 0.31 | 0.46 | 0.01 | 3.1% |
| SC-229.01 | 10 min | 4363 | 0.30 | 0.31 | 0.03 | 0.31 | 0.33 | 0.25 | 0.30 | 0.15 | 0.22 | 0.33 | 0.02 | 5.0% |
| SC-23.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.63 | 0.66 | 0.51 | 0.61 | 0.31 | 0.43 | 0.66 | 0.03 | 4.8% |
| SC-23.02 | 10 min | 4354 | 1.84 | 1.83 | 0.14 | 1.86 | 1.86 | 1.61 | 1.71 | 0.91 | 1.36 | 1.86 | -0.01 | -0.3% |
| SC-23.03 | 10 min | 4354 | 2.27 | 2.24 | 0.16 | 2.27 | 2.27 | 2.00 | 2.10 | 1.13 | 1.72 | 2.27 | 0.00 | -0.1% |
| SC-230.01 | 10 min | 4363 | 0.30 | 0.30 | 0.03 | 0.31 | 0.32 | 0.25 | 0.30 | 0.15 | 0.22 | 0.32 | 0.01 | 3.3% |
| SC-231.01 | 10 min | 4363 | 0.33 | 0.34 | 0.03 | 0.34 | 0.36 | 0.27 | 0.33 | 0.17 | 0.24 | 0.36 | 0.02 | 5.0% |
| SC-232.01 | 10 min | 4368 | 0.82 | 0.84 | 0.07 | 0.84 | 0.87 | 0.69 | 0.81 | 0.43 | 0.62 | 0.87 | 0.03 | 3.4% |
| SC-232.02 | 10 min | 4365 | 1.31 | 1.32 | 0.10 | 1.32 | 1.36 | 1.12 | 1.26 | 0.68 | 0.99 | 1.36 | 0.04 | 3.2% |
| SC-232.03 | 10 min | 4361 | 3.04 | 3.06 | 0.22 | 3.10 | 3.11 | 2.62 | 2.88 | 1.56 | 2.32 | 3.11 | 0.01 | 0.4% |
| SC-233.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.60 | 0.63 | 0.48 | 0.58 | 0.29 | 0.42 | 0.63 | 0.03 | 4.8% |
| SC-233.02 | 10 min | 4361 | 0.97 | 0.98 | 0.07 | 0.98 | 0.99 | 0.83 | 0.92 | 0.49 | 0.72 | 0.99 | 0.01 | 1.5% |
| SC-234.01 | 10 min | 4363 | 0.84 | 0.86 | 0.07 | 0.87 | 0.91 | 0.69 | 0.84 | 0.42 | 0.61 | 0.91 | 0.04 | 4.5% |
| SC-234.02 | 10 min | 4361 | 1.63 | 1.65 | 0.11 | 1.67 | 1.67 | 1.41 | 1.55 | 0.84 | 1.25 | 1.67 | 0.00 | 0.1% |
| SC-234.03 | 10 min | 4354 | 4.82 | 4.81 | 0.33 | 4.88 | 4.88 | 4.21 | 4.51 | 2.57 | 3.85 | 4.88 | 0.00 | 0.1% |
| SC-235.01 | 10 min | 4363 | 0.31 | 0.31 | 0.03 | 0.32 | 0.34 | 0.25 | 0.31 | 0.16 | 0.21 | 0.34 | 0.02 | 5.5% |
| SC-236.01 | 10 min | 4363 | 0.39 | 0.40 | 0.03 | 0.41 | 0.43 | 0.32 | 0.40 | 0.20 | 0.27 | 0.43 | 0.02 | 4.3% |
| SC-236.02 | 10 min | 4363 | 0.61 | 0.62 | 0.06 | 0.63 | 0.65 | 0.50 | 0.60 | 0.31 | 0.43 | 0.65 | 0.02 | 3.8% |

## ARR2019 Results for 0.5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4400 | 4371 | 4558 | 4611 | | $m^3/s$ | % |
| SC-237.01 | 10 min | 4363 | 0.53 | 0.54 | 0.04 | 0.55 | 0.57 | 0.44 | 0.53 | 0.27 | 0.39 | 0.57 | 0.02 | 4.1% |
| SC-237.02 | 10 min | 4364 | 1.17 | 1.13 | 0.10 | 1.14 | 1.11 | 1.09 | 1.10 | 0.68 | 1.04 | 1.11 | -0.03 | -2.3% |
| SC-238.01 | 10 min | 4363 | 0.35 | 0.35 | 0.03 | 0.36 | 0.37 | 0.28 | 0.35 | 0.17 | 0.24 | 0.37 | 0.01 | 4.1% |
| SC-238.02 | 10 min | 4361 | 0.80 | 0.80 | 0.06 | 0.81 | 0.82 | 0.69 | 0.76 | 0.40 | 0.60 | 0.82 | 0.01 | 0.8% |
| SC-239.01 | 10 min | 4363 | 0.45 | 0.45 | 0.04 | 0.46 | 0.48 | 0.37 | 0.44 | 0.22 | 0.31 | 0.48 | 0.02 | 3.5% |
| SC-24.01 | 10 min | 4363 | 0.54 | 0.55 | 0.05 | 0.55 | 0.58 | 0.44 | 0.53 | 0.27 | 0.38 | 0.58 | 0.03 | 4.9% |
| SC-240.01 | 20 min | 4433 | 1.21 | 1.20 | 0.12 | 1.21 | 0.86 | 1.14 | 1.14 | 0.76 | 1.16 | 1.16 | -0.05 | -4.0% |
| SC-240.02 | 20 min | 4429 | 1.77 | 1.71 | 0.16 | 1.73 | 1.35 | 1.64 | 1.69 | 1.14 | 1.71 | 1.71 | -0.02 | -1.1% |
| SC-241.01 | 10 min | 4364 | 5.25 | 5.31 | 0.32 | 5.34 | 4.88 | 5.28 | 4.30 | 2.70 | 4.70 | 5.28 | -0.06 | -1.1% |
| SC-242.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.63 | 0.66 | 0.52 | 0.61 | 0.33 | 0.46 | 0.66 | 0.03 | 4.7% |
| SC-242.02 | 10 min | 4365 | 1.60 | 1.62 | 0.12 | 1.62 | 1.67 | 1.38 | 1.54 | 0.84 | 1.23 | 1.67 | 0.05 | 3.0% |
| SC-242.03 | 10 min | 4361 | 2.39 | 2.41 | 0.18 | 2.42 | 2.47 | 2.05 | 2.29 | 1.25 | 1.84 | 2.47 | 0.05 | 2.1% |
| SC-242.04 | 10 min | 4361 | 2.53 | 2.56 | 0.19 | 2.56 | 2.63 | 2.20 | 2.43 | 1.33 | 1.96 | 2.63 | 0.07 | 2.8% |
| SC-242.05 | 10 min | 4354 | 5.64 | 5.62 | 0.37 | 5.69 | 5.69 | 4.95 | 5.18 | 2.86 | 4.37 | 5.69 | 0.00 | -0.1% |
| SC-242.06 | 10 min | 4354 | 7.42 | 7.21 | 0.47 | 7.25 | 7.25 | 6.63 | 6.60 | 3.75 | 5.89 | 7.25 | 0.00 | -0.1% |
| SC-242.07 | 10 min | 4354 | 8.02 | 7.77 | 0.50 | 7.79 | 7.79 | 7.30 | 7.03 | 4.07 | 6.45 | 7.79 | 0.00 | 0.0% |
| SC-242.08 | 10 min | 4364 | 15.57 | 15.46 | 0.84 | 15.50 | 14.76 | 14.93 | 12.47 | 7.95 | 12.98 | 14.93 | -0.57 | -3.7% |
| SC-243.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.61 | 0.64 | 0.48 | 0.59 | 0.29 | 0.41 | 0.64 | 0.03 | 4.2% |
| SC-243.02 | 10 min | 4365 | 2.16 | 2.19 | 0.17 | 2.21 | 2.27 | 1.83 | 2.10 | 1.09 | 1.59 | 2.27 | 0.06 | 2.7% |
| SC-244.01 | 10 min | 4363 | 0.82 | 0.84 | 0.07 | 0.86 | 0.90 | 0.67 | 0.83 | 0.41 | 0.57 | 0.90 | 0.04 | 4.1% |
| SC-245.01 | 10 min | 4363 | 0.43 | 0.44 | 0.04 | 0.45 | 0.47 | 0.36 | 0.43 | 0.22 | 0.31 | 0.47 | 0.02 | 4.3% |
| SC-246.01 | 10 min | 4363 | 0.29 | 0.30 | 0.03 | 0.30 | 0.32 | 0.24 | 0.29 | 0.15 | 0.21 | 0.32 | 0.02 | 5.2% |
| SC-246.02 | 10 min | 4364 | 0.81 | 0.78 | 0.08 | 0.78 | 0.75 | 0.72 | 0.70 | 0.41 | 0.63 | 0.75 | -0.03 | -3.8% |
| SC-247.01 | 10 min | 4354 | 0.80 | 0.80 | 0.06 | 0.81 | 0.81 | 0.69 | 0.75 | 0.40 | 0.60 | 0.81 | 0.00 | 0.0% |
| SC-247.02 | 10 min | 4364 | 2.03 | 2.06 | 0.24 | 2.08 | 1.77 | 1.88 | 1.72 | 1.04 | 1.69 | 1.88 | -0.20 | -9.5% |
| SC-248.01 | 10 min | 4364 | 1.02 | 1.03 | 0.10 | 1.04 | 0.90 | 0.96 | 0.81 | 0.49 | 0.84 | 0.96 | -0.08 | -8.1% |
| SC-249.01 | 20 min | 4433 | 0.24 | 0.24 | 0.02 | 0.24 | 0.17 | 0.23 | 0.22 | 0.15 | 0.23 | 0.23 | -0.01 | -4.8% |
| SC-249.02 | 20 min | 4371 | 0.71 | 0.68 | 0.10 | 0.69 | 0.62 | 0.68 | 0.69 | 0.44 | 0.66 | 0.69 | 0.00 | -0.1% |
| SC-249.03 | 10 min | 4357 | 1.46 | 1.41 | 0.11 | 1.42 | 1.41 | 1.33 | 1.36 | 0.85 | 1.29 | 1.41 | -0.01 | -1.0% |
| SC-249.04 | 10 min | 4354 | 3.57 | 3.48 | 0.24 | 3.53 | 3.53 | 3.15 | 3.26 | 1.99 | 3.01 | 3.53 | 0.00 | -0.1% |
| SC-249.05 | 10 min | 4354 | 10.58 | 10.26 | 0.71 | 10.32 | 10.32 | 9.41 | 9.32 | 5.63 | 8.73 | 10.32 | 0.00 | 0.0% |
| SC-249.06 | 10 min | 4364 | 17.76 | 17.73 | 0.90 | 17.78 | 16.86 | 17.71 | 14.30 | 9.67 | 15.81 | 17.71 | -0.07 | -0.4% |
| SC-25.01 | 10 min | 4363 | 1.63 | 1.66 | 0.14 | 1.69 | 1.76 | 1.34 | 1.63 | 0.82 | 1.14 | 1.76 | 0.07 | 4.3% |
| SC-25.02 | 10 min | 4365 | 2.34 | 2.36 | 0.17 | 2.37 | 2.43 | 1.99 | 2.25 | 1.17 | 1.71 | 2.43 | 0.06 | 2.7% |
| SC-25.03 | 10 min | 4368 | 2.54 | 2.59 | 0.19 | 2.60 | 2.68 | 2.19 | 2.48 | 1.29 | 1.89 | 2.68 | 0.08 | 3.1% |
| SC-25.04 | 10 min | 4361 | 4.30 | 4.33 | 0.32 | 4.36 | 4.44 | 3.67 | 4.10 | 2.19 | 3.27 | 4.44 | 0.08 | 1.8% |
| SC-250.01 | 10 min | 4363 | 0.19 | 0.19 | 0.02 | 0.19 | 0.20 | 0.16 | 0.18 | 0.10 | 0.14 | 0.20 | 0.01 | 5.1% |
| SC-251.01 | 10 min | 4363 | 0.46 | 0.47 | 0.04 | 0.47 | 0.49 | 0.38 | 0.45 | 0.23 | 0.34 | 0.49 | 0.02 | 3.8% |
| SC-252.01 | 10 min | 4365 | 0.53 | 0.54 | 0.04 | 0.54 | 0.55 | 0.45 | 0.51 | 0.29 | 0.43 | 0.55 | 0.01 | 2.4% |
| SC-252.02 | 10 min | 4368 | 0.99 | 1.00 | 0.08 | 1.01 | 1.04 | 0.83 | 0.96 | 0.52 | 0.76 | 1.04 | 0.03 | 3.3% |
| SC-253.01 | 10 min | 4363 | 0.77 | 0.79 | 0.07 | 0.80 | 0.84 | 0.64 | 0.77 | 0.39 | 0.55 | 0.84 | 0.04 | 4.8% |
| SC-253.02 | 10 min | 4365 | 2.81 | 2.84 | 0.21 | 2.86 | 2.94 | 2.39 | 2.73 | 1.45 | 2.14 | 2.94 | 0.08 | 2.9% |
| SC-253.03 | 10 min | 4365 | 3.42 | 3.48 | 0.28 | 3.50 | 3.60 | 2.90 | 3.33 | 1.78 | 2.60 | 3.60 | 0.10 | 2.9% |
| SC-254.01 | 10 min | 4363 | 0.78 | 0.80 | 0.07 | 0.81 | 0.84 | 0.65 | 0.78 | 0.40 | 0.58 | 0.84 | 0.03 | 3.9% |
| SC-255.01 | 10 min | 4361 | 0.74 | 0.75 | 0.05 | 0.75 | 0.77 | 0.63 | 0.71 | 0.41 | 0.61 | 0.77 | 0.02 | 2.4% |
| SC-256.01 | 10 min | 4365 | 0.65 | 0.66 | 0.05 | 0.66 | 0.68 | 0.55 | 0.63 | 0.33 | 0.49 | 0.68 | 0.02 | 3.4% |
| SC-257.01 | 10 min | 4365 | 0.37 | 0.37 | 0.03 | 0.37 | 0.38 | 0.31 | 0.36 | 0.18 | 0.27 | 0.38 | 0.01 | 3.9% |
| SC-258.01 | 10 min | 4361 | 1.68 | 1.69 | 0.12 | 1.72 | 1.72 | 1.45 | 1.60 | 0.83 | 1.23 | 1.72 | 0.00 | 0.0% |
| SC-258.02 | 10 min | 4364 | 2.81 | 2.86 | 0.36 | 2.89 | 2.41 | 2.56 | 2.44 | 1.48 | 2.34 | 2.56 | -0.33 | -11.5% |
| SC-259.01 | 10 min | 4363 | 0.71 | 0.73 | 0.06 | 0.74 | 0.77 | 0.59 | 0.71 | 0.37 | 0.52 | 0.77 | 0.03 | 4.4% |
| SC-259.02 | 10 min | 4361 | 1.50 | 1.52 | 0.11 | 1.52 | 1.56 | 1.29 | 1.45 | 0.79 | 1.15 | 1.56 | 0.04 | 2.8% |
| SC-259.03 | 10 min | 4365 | 2.13 | 2.15 | 0.17 | 2.16 | 2.23 | 1.83 | 2.06 | 1.11 | 1.63 | 2.23 | 0.07 | 3.1% |
| SC-259.04 | 10 min | 4365 | 3.86 | 3.90 | 0.30 | 3.92 | 4.03 | 3.31 | 3.73 | 2.02 | 2.95 | 4.03 | 0.11 | 2.9% |
| SC-259.05 | 10 min | 4361 | 4.74 | 4.78 | 0.36 | 4.80 | 4.92 | 4.08 | 4.54 | 2.47 | 3.65 | 4.92 | 0.12 | 2.5% |
| SC-259.06 | 10 min | 4365 | 6.10 | 6.16 | 0.47 | 6.18 | 6.36 | 5.32 | 5.86 | 3.19 | 4.73 | 6.36 | 0.18 | 2.9% |
| SC-259.07 | 10 min | 4356 | 7.86 | 7.76 | 0.36 | 7.78 | 8.30 | 7.34 | 7.41 | 4.04 | 6.13 | 8.30 | 0.52 | 6.6% |
| SC-259.08 | 10 min | 4356 | 9.31 | 9.28 | 0.28 | 9.30 | 9.62 | 8.69 | 8.47 | 4.61 | 7.26 | 9.62 | 0.32 | 3.4% |
| SC-259.09 | 10 min | 4356 | 24.49 | 24.43 | 0.34 | 24.46 | 24.88 | 24.11 | 21.61 | 12.97 | 21.14 | 24.88 | 0.42 | 1.7% |
| SC-259.10 | 10 min | 4356 | 24.87 | 24.84 | 0.30 | 24.86 | 25.21 | 24.46 | 21.95 | 13.25 | 21.66 | 25.21 | 0.35 | 1.4% |
| SC-26.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.51 | 0.54 | 0.42 | 0.50 | 0.25 | 0.36 | 0.54 | 0.03 | 4.9% |
| SC-260.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.49 | 0.51 | 0.39 | 0.47 | 0.24 | 0.34 | 0.51 | 0.02 | 4.8% |
| SC-261.01 | 10 min | 4363 | 0.60 | 0.62 | 0.05 | 0.62 | 0.65 | 0.51 | 0.60 | 0.32 | 0.45 | 0.65 | 0.03 | 4.2% |
| SC-262.01 | 10 min | 4363 | 0.69 | 0.70 | 0.06 | 0.72 | 0.75 | 0.57 | 0.69 | 0.35 | 0.50 | 0.75 | 0.03 | 3.9% |
| SC-262.02 | 10 min | 4365 | 1.26 | 1.28 | 0.10 | 1.29 | 1.33 | 1.06 | 1.23 | 0.64 | 0.94 | 1.33 | 0.04 | 2.9% |
| SC-263.01 | 10 min | 4363 | 0.73 | 0.75 | 0.06 | 0.76 | 0.79 | 0.61 | 0.73 | 0.37 | 0.54 | 0.79 | 0.03 | 3.8% |
| SC-264.01 | 10 min | 4363 | 0.40 | 0.41 | 0.03 | 0.42 | 0.43 | 0.33 | 0.40 | 0.20 | 0.28 | 0.43 | 0.01 | 3.5% |
| SC-265.01 | 10 min | 4363 | 0.53 | 0.54 | 0.04 | 0.55 | 0.57 | 0.44 | 0.53 | 0.27 | 0.40 | 0.57 | 0.02 | 3.8% |
| SC-265.02 | 15 min | 4400 | 1.36 | 1.27 | 0.23 | 1.30 | 1.28 | 1.30 | 1.31 | 0.80 | 1.23 | 1.31 | 0.01 | 0.5% |
| SC-265.03 | 15 min | 4401 | 2.36 | 2.25 | 0.28 | 2.29 | 2.24 | 2.46 | 1.99 | 1.36 | 2.18 | 2.46 | 0.17 | 7.3% |
| SC-265.04 | 10 min | 4361 | 11.17 | 11.16 | 0.29 | 11.22 | 11.23 | 11.18 | 9.80 | 6.35 | 10.10 | 11.23 | 0.01 | 0.1% |
| SC-266.01 | 10 min | 4354 | 0.69 | 0.69 | 0.04 | 0.70 | 0.70 | 0.62 | 0.65 | 0.39 | 0.59 | 0.70 | 0.00 | -0.2% |
| SC-266.02 | 10 min | 4354 | 1.32 | 1.30 | 0.09 | 1.32 | 1.32 | 1.17 | 1.22 | 0.75 | 1.12 | 1.32 | 0.00 | -0.3% |
| SC-266.03 | 10 min | 4361 | 1.58 | 1.59 | 0.11 | 1.60 | 1.63 | 1.38 | 1.51 | 0.90 | 1.32 | 1.63 | 0.03 | 1.9% |
| SC-266.04 | 10 min | 4354 | 6.17 | 6.01 | 0.42 | 6.10 | 6.10 | 5.54 | 5.66 | 3.53 | 5.36 | 6.10 | 0.00 | -0.1% |
| SC-266.05 | 10 min | 4365 | 7.05 | 7.07 | 0.26 | 7.08 | 7.23 | 6.74 | 6.50 | 4.09 | 6.26 | 7.23 | 0.15 | 2.1% |
| SC-267.01 | 10 min | 4363 | 0.65 | 0.66 | 0.05 | 0.67 | 0.70 | 0.54 | 0.65 | 0.33 | 0.47 | 0.70 | 0.03 | 4.3% |
| SC-268.01 | 10 min | 4363 | 1.10 | 1.12 | 0.09 | 1.13 | 1.18 | 0.91 | 1.09 | 0.56 | 0.82 | 1.18 | 0.05 | 4.2% |
| SC-268.02 | 10 min | 4354 | 2.89 | 2.88 | 0.19 | 2.92 | 2.92 | 2.52 | 2.70 | 1.63 | 2.43 | 2.92 | 0.00 | -0.1% |
| SC-269.01 | 20 min | 4371 | 0.49 | 0.47 | 0.07 | 0.47 | 0.44 | 0.48 | 0.47 | 0.29 | 0.45 | 0.48 | 0.01 | 2.9% |
| SC-27.01 | 10 min | 4354 | 0.54 | 0.53 | 0.04 | 0.53 | 0.53 | 0.46 | 0.49 | 0.29 | 0.44 | 0.53 | 0.00 | 0.8% |
| SC-270.01 | 20 min | 4429 | 0.55 | 0.51 | 0.08 | 0.51 | 0.49 | 0.55 | 0.50 | 0.31 | 0.50 | 0.55 | 0.04 | 7.7% |
| SC-271.01 | 10 min | 4364 | 0.34 | 0.35 | 0.03 | 0.35 | 0.30 | 0.33 | 0.31 | 0.19 | 0.30 | 0.33 | -0.02 | -5.2% |
| SC-272.01 | 20 min | 4433 | 0.82 | 0.77 | 0.11 | 0.77 | 0.69 | 0.81 | 0.76 | 0.48 | 0.76 | 0.81 | 0.04 | 5.7% |
| SC-272.02 | 10 min | 4364 | 1.68 | 1.70 | 0.20 | 1.72 | 1.45 | 1.61 | 1.57 | 0.97 | 1.52 | 1.61 | -0.11 | -6.2% |
| SC-272.03 | 10 min | 4364 | 2.77 | 2.80 | 0.34 | 2.83 | 2.39 | 2.58 | 2.53 | 1.54 | 2.41 | 2.58 | -0.25 | -9.0% |
| SC-273.01 | 10 min | 4364 | 0.78 | 0.79 | 0.11 | 0.80 | 0.67 | 0.72 | 0.67 | 0.40 | 0.63 | 0.72 | -0.08 | -9.4% |
| SC-274.01 | 20 min | 4433 | 0.41 | 0.40 | 0.04 | 0.40 | 0.29 | 0.36 | 0.42 | 0.31 | 0.41 | 0.42 | 0.02 | 4.2% |
| SC-274.02 | 10 min | 4354 | 1.57 | 1.54 | 0.11 | 1.57 | 1.57 | 1.37 | 1.46 | 0.94 | 1.35 | 1.57 | 0.00 | -0.3% |
| SC-274.03 | 10 min | 4361 | 3.74 | 3.77 | 0.26 | 3.80 | 3.85 | 3.21 | 3.56 | 2.03 | 2.99 | 3.85 | 0.05 | 1.3% |
| SC-274.04 | 10 min | 4361 | 4.83 | 4.87 | 0.34 | 4.87 | 5.01 | 4.15 | 4.63 | 2.61 | 3.82 | 5.01 | 0.14 | 2.9% |
| SC-274.05 | 10 min | 4354 | 6.38 | 6.27 | 0.48 | 6.37 | 6.37 | 5.60 | 5.83 | 3.43 | 5.07 | 6.37 | 0.00 | 0.0% |
| SC-275.01 | 10 min | 4363 | 0.71 | 0.72 | 0.06 | 0.74 | 0.77 | 0.59 | 0.71 | 0.36 | 0.52 | 0.77 | 0.03 | 3.9% |
| SC-276.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.54 | 0.56 | 0.42 | 0.52 | 0.26 | 0.36 | 0.56 | 0.02 | 3.4% |
| SC-277.01 | 10 min | 4361 | 0.66 | 0.67 | 0.05 | 0.67 | 0.69 | 0.57 | 0.64 | 0.33 | 0.49 | 0.69 | 0.02 | 2.2% |
| SC-278.01 | 10 min | 4363 | 0.40 | 0.41 | 0.03 | 0.41 | 0.43 | 0.33 | 0.40 | 0.20 | 0.28 | 0.43 | 0.02 | 5.0% |
| SC-278.02 | 10 min | 4364 | 5.43 | 5.51 | 0.60 | 5.56 | 4.76 | 5.04 | 4.50 | 2.73 | 4.51 | 5.04 | -0.52 | -9.3% |
| SC-279.01 | 10 min | 4364 | 0.71 | 0.72 | 0.08 | 0.73 | 0.63 | 0.65 | 0.63 | 0.38 | 0.60 | 0.65 | -0.08 | -10.7% |
| SC-279.02 | 10 min | 4364 | 5.13 | 5.20 | 0.68 | 5.26 | 4.38 | 4.80 | 4.38 | 2.61 | 4.21 | 4.80 | -0.46 | -8.7% |
| SC-28.01 | 20 min | 4399 | 0.47 | 0.45 | 0.05 | 0.45 | 0.39 | 0.49 | 0.40 | 0.26 | 0.44 | 0.49 | 0.04 | 8.9% |
| SC-28.02 | 20 min | 4433 | 1.06 | 1.00 | 0.15 | 1.00 | 0.90 | 1.04 | 0.99 | 0.62 | 0.98 | 1.04 | 0.04 | 4.3% |
| SC-28.03 | 20 min | 4371 | 1.48 | 1.39 | 0.21 | 1.40 | 1.34 | 1.42 | 1.40 | 0.87 | 1.35 | 1.42 | 0.02 | 1.6% |
| SC-28.04 | 10 min | 4354 | 3.16 | 3.06 | 0.24 | 3.07 | 3.07 | 2.77 | 2.84 | 1.72 | 2.63 | 3.07 | 0.00 | 0.0% |
| SC-280.01 | 10 min | 4354 | 0.67 | 0.66 | 0.04 | 0.67 | 0.67 | 0.58 | 0.62 | 0.35 | 0.54 | 0.67 | 0.00 | -0.3% |
| SC-29.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.51 | 0.54 | 0.41 | 0.50 | 0.25 | 0.35 | 0.54 | 0.03 | 4.9% |
| SC-29.02 | 10 min | 4354 | 1.38 | 1.39 | 0.10 | 1.41 | 1.41 | 1.19 | 1.30 | 0.70 | 1.03 | 1.41 | 0.00 | -0.1% |
| SC-3.01 | 10 min | 4364 | 0.62 | 0.61 | 0.05 | 0.61 | 0.58 | 0.57 | 0.55 | 0.34 | 0.53 | 0.58 | -0.03 | -5.5% |
| SC-3.02 | 15 min | 4396 | 2.00 | 1.86 | 0.33 | 1.89 | 1.80 | 1.94 | 1.86 | 1.15 | 1.81 | 1.94 | 0.05 | 2.8% |
| SC-30.01 | 10 min | 4363 | 0.89 | 0.90 | 0.08 | 0.92 | 0.96 | 0.73 | 0.89 | 0.45 | 0.62 | 0.96 | 0.04 | 4.1% |
| SC-30.02 | 10 min | 4354 | 1.62 | 1.62 | 0.12 | 1.65 | 1.65 | 1.40 | 1.53 | 0.81 | 1.21 | 1.65 | 0.00 | -0.2% |
| SC-30.03 | 10 min | 4361 | 2.25 | 2.26 | 0.15 | 2.29 | 2.30 | 1.94 | 2.13 | 1.13 | 1.70 | 2.30 | 0.01 | 0.3% |
| SC-30.04 | 10 min | 4361 | 2.86 | 2.88 | 0.21 | 2.90 | 2.95 | 2.45 | 2.72 | 1.45 | 2.17 | 2.95 | 0.04 | 1.6% |
| SC-31.01 | 10 min | 4354 | 0.62 | 0.60 | 0.05 | 0.60 | 0.60 | 0.55 | 0.56 | 0.31 | 0.47 | 0.60 | 0.00 | 0.0% |
| SC-31.02 | 10 min | 4354 | 1.30 | 1.25 | 0.10 | 1.26 | 1.26 | 1.14 | 1.16 | 0.66 | 1.01 | 1.26 | 0.00 | -0.2% |
| SC-32.01 | 10 min | 4364 | 0.58 | 0.58 | 0.05 | 0.59 | 0.52 | 0.56 | 0.48 | 0.30 | 0.51 | 0.56 | -0.03 | -4.5% |
| SC-32.02 | 15 min | 4401 | 0.81 | 0.78 | 0.11 | 0.79 | 0.73 | 0.85 | 0.66 | 0.43 | 0.75 | 0.85 | 0.06 | 7.5% |
| SC-33.01 | 10 min | 4363 | 0.74 | 0.76 | 0.06 | 0.77 | 0.80 | 0.62 | 0.74 | 0.38 | 0.52 | 0.80 | 0.03 | 4.2% |
| SC-33.02 | 10 min | 4365 | 1.73 | 1.74 | 0.13 | 1.75 | 1.81 | 1.46 | 1.67 | 0.87 | 1.29 | 1.81 | 0.05 | 3.1% |
| SC-34.01 | 10 min | 4354 | 0.59 | 0.59 | 0.04 | 0.60 | 0.60 | 0.52 | 0.55 | 0.29 | 0.43 | 0.60 | 0.00 | -0.4% |
| SC-34.02 | 10 min | 4354 | 1.22 | 1.18 | 0.09 | 1.20 | 1.20 | 1.07 | 1.11 | 0.60 | 0.91 | 1.20 | 0.00 | -0.2% |
| SC-34.03 | 10 min | 4361 | 1.42 | 1.43 | 0.08 | 1.43 | 1.47 | 1.27 | 1.36 | 0.73 | 1.10 | 1.47 | 0.04 | 2.6% |
| SC-35.01 | 10 min | 4363 | 0.53 | 0.54 | 0.05 | 0.56 | 0.58 | 0.43 | 0.54 | 0.27 | 0.36 | 0.58 | 0.02 | 4.3% |
| SC-35.02 | 10 min | 4368 | 1.47 | 1.50 | 0.12 | 1.51 | 1.56 | 1.25 | 1.45 | 0.77 | 1.05 | 1.56 | 0.05 | 3.2% |
| SC-35.03 | 10 min | 4365 | 2.34 | 2.39 | 0.19 | 2.40 | 2.47 | 2.00 | 2.30 | 1.23 | 1.66 | 2.47 | 0.07 | 2.9% |
| SC-35.04 | 10 min | 4363 | 2.51 | 2.56 | 0.21 | 2.56 | 2.66 | 2.14 | 2.47 | 1.32 | 1.79 | 2.66 | 0.10 | 3.9% |
| SC-36.01 | 10 min | 4363 | 1.14 | 1.16 | 0.09 | 1.17 | 1.22 | 0.94 | 1.13 | 0.57 | 0.82 | 1.22 | 0.05 | 4.4% |
| SC-36.02 | 10 min | 4363 | 2.05 | 2.09 | 0.17 | 2.11 | 2.20 | 1.70 | 2.04 | 1.02 | 1.47 | 2.20 | 0.09 | 4.2% |
| SC-37.01 | 10 min | 4363 | 0.44 | 0.45 | 0.04 | 0.45 | 0.47 | 0.37 | 0.43 | 0.22 | 0.31 | 0.47 | 0.02 | 4.0% |
| SC-37.02 | 10 min | 4361 | 1.24 | 1.25 | 0.09 | 1.26 | 1.28 | 1.06 | 1.19 | 0.62 | 0.90 | 1.28 | 0.02 | 1.6% |
| SC-38.01 | 10 min | 4368 | 0.51 | 0.52 | 0.04 | 0.53 | 0.54 | 0.43 | 0.50 | 0.26 | 0.37 | 0.54 | 0.01 | 2.4% |
| SC-39.01 | 10 min | 4363 | 0.30 | 0.30 | 0.02 | 0.30 | 0.32 | 0.25 | 0.29 | 0.15 | 0.21 | 0.32 | 0.02 | 5.7% |

## ARR2019 Results for 0.5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4400 | 4371 | 4558 | 4611 | | $m^3/s$ | % |
| SC-4.01 | 20 min | 4429 | 0.70 | 0.66 | 0.09 | 0.66 | 0.62 | 0.71 | 0.63 | 0.40 | 0.65 | 0.71 | 0.05 | 8.1% |
| SC-40.01 | 10 min | 4363 | 0.69 | 0.70 | 0.06 | 0.72 | 0.75 | 0.56 | 0.69 | 0.35 | 0.47 | 0.75 | 0.03 | 4.6% |
| SC-41.01 | 10 min | 4363 | 0.45 | 0.45 | 0.04 | 0.47 | 0.49 | 0.36 | 0.46 | 0.23 | 0.30 | 0.49 | 0.02 | 4.6% |
| SC-42.01 | 10 min | 4363 | 1.53 | 1.55 | 0.14 | 1.61 | 1.67 | 1.24 | 1.55 | 0.77 | 1.04 | 1.67 | 0.06 | 4.0% |
| SC-43.01 | 10 min | 4363 | 0.33 | 0.33 | 0.03 | 0.35 | 0.37 | 0.26 | 0.34 | 0.17 | 0.22 | 0.37 | 0.02 | 4.4% |
| SC-44.01 | 10 min | 4363 | 1.06 | 1.08 | 0.09 | 1.10 | 1.15 | 0.87 | 1.06 | 0.53 | 0.75 | 1.15 | 0.04 | 4.1% |
| SC-44.02 | 10 min | 4361 | 1.70 | 1.72 | 0.12 | 1.72 | 1.77 | 1.46 | 1.64 | 0.85 | 1.27 | 1.77 | 0.04 | 2.6% |
| SC-44.03 | 10 min | 4361 | 2.34 | 2.36 | 0.16 | 2.36 | 2.42 | 2.00 | 2.24 | 1.18 | 1.75 | 2.42 | 0.06 | 2.5% |
| SC-44.04 | 10 min | 4361 | 3.57 | 3.60 | 0.26 | 3.65 | 3.65 | 3.08 | 3.37 | 1.83 | 2.74 | 3.65 | 0.00 | 0.0% |
| SC-44.05 | 10 min | 4361 | 6.24 | 6.28 | 0.37 | 6.32 | 6.40 | 5.52 | 5.85 | 3.19 | 4.86 | 6.40 | 0.07 | 1.2% |
| SC-44.06 | 10 min | 4365 | 6.65 | 6.66 | 0.33 | 6.67 | 6.81 | 6.01 | 6.17 | 3.42 | 5.30 | 6.81 | 0.14 | 2.1% |
| SC-44.07 | 10 min | 4354 | 7.51 | 7.42 | 0.21 | 7.43 | 7.43 | 7.28 | 6.43 | 3.88 | 6.36 | 7.43 | 0.00 | 0.0% |
| SC-44.08 | 10 min | 4364 | 9.63 | 9.54 | 0.32 | 9.57 | 9.36 | 9.29 | 7.97 | 4.76 | 8.18 | 9.36 | -0.22 | -2.2% |
| SC-44.09 | 10 min | 4364 | 10.14 | 10.11 | 0.23 | 10.13 | 9.98 | 10.18 | 8.46 | 5.28 | 9.05 | 10.18 | 0.05 | 0.5% |
| SC-44.10 | 15 min | 4720 | 0.74 | 0.74 | 0.01 | 0.74 | 0.67 | 0.69 | 0.70 | 0.75 | 0.78 | 0.78 | 0.03 | 4.3% |
| SC-44.11 | 15 min | 4533 | 12.34 | 12.15 | 1.23 | 12.73 | 2.65 | 8.46 | 11.10 | 10.82 | 16.21 | 16.21 | 3.48 | 27.3% |
| SC-44.12 | 15 min | 4787 | 0.72 | 0.74 | 0.07 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.80 | 0.07 | 8.9% |
| SC-44.13 | 15 min | 4747 | 0.68 | 0.68 | 0.02 | 0.68 | 0.17 | 0.22 | 0.24 | 0.32 | 0.79 | 0.79 | 0.11 | 15.9% |
| SC-44.14 | 15 min | 4747 | 1.52 | 1.52 | 0.07 | 1.53 | 0.52 | 0.95 | 1.22 | 1.55 | 1.56 | 1.56 | 0.03 | 2.1% |
| SC-44.15 | 15 min | 4747 | 2.63 | 2.64 | 0.03 | 2.64 | 2.27 | 2.41 | 2.47 | 2.74 | 2.72 | 2.74 | 0.09 | 3.5% |
| SC-44.16 | 15 min | 4747 | 2.69 | 2.70 | 0.03 | 2.70 | 2.36 | 2.51 | 2.55 | 2.79 | 2.76 | 2.79 | 0.08 | 3.1% |
| SC-44.17 | 15 min | 4401 | 9.10 | 8.83 | 0.85 | 8.93 | 8.69 | 9.27 | 8.15 | 6.32 | 8.68 | 9.27 | 0.34 | 3.8% |
| SC-44.18 | 15 min | 4401 | 9.51 | 9.44 | 0.73 | 9.54 | 8.87 | 9.61 | 8.36 | 6.72 | 9.31 | 9.61 | 0.07 | 0.7% |
| SC-44.19 | 15 min | 4401 | 10.70 | 10.77 | 0.54 | 10.89 | 10.14 | 11.16 | 8.95 | 7.46 | 10.54 | 11.16 | 0.27 | 2.5% |
| SC-44.20 | 25 min | 4466 | 9.88 | 9.88 | 0.47 | 9.89 | 8.84 | 9.75 | 8.65 | 7.71 | 10.03 | 10.03 | 0.14 | 1.4% |
| SC-45.01 | 10 min | 4361 | 0.80 | 0.80 | 0.05 | 0.81 | 0.82 | 0.67 | 0.76 | 0.41 | 0.61 | 0.82 | 0.01 | 0.8% |
| SC-46.01 | 10 min | 4363 | 0.64 | 0.65 | 0.05 | 0.66 | 0.68 | 0.53 | 0.63 | 0.32 | 0.46 | 0.68 | 0.02 | 3.6% |
| SC-46.02 | 10 min | 4354 | 1.11 | 1.10 | 0.08 | 1.12 | 1.12 | 0.96 | 1.04 | 0.55 | 0.83 | 1.12 | 0.00 | -0.2% |
| SC-46.03 | 10 min | 4361 | 1.66 | 1.67 | 0.11 | 1.69 | 1.69 | 1.42 | 1.57 | 0.84 | 1.26 | 1.69 | 0.00 | 0.1% |
| SC-46.04 | 10 min | 4361 | 1.87 | 1.88 | 0.14 | 1.90 | 1.93 | 1.61 | 1.78 | 0.95 | 1.43 | 1.93 | 0.03 | 1.3% |
| SC-47.01 | 10 min | 4363 | 1.04 | 1.06 | 0.09 | 1.07 | 1.12 | 0.86 | 1.04 | 0.52 | 0.75 | 1.12 | 0.05 | 4.7% |
| SC-48.01 | 10 min | 4363 | 0.78 | 0.80 | 0.07 | 0.81 | 0.84 | 0.64 | 0.78 | 0.39 | 0.56 | 0.84 | 0.03 | 4.3% |
| SC-48.02 | 10 min | 4354 | 1.25 | 1.26 | 0.09 | 1.28 | 1.28 | 1.08 | 1.18 | 0.62 | 0.93 | 1.28 | 0.00 | -0.2% |
| SC-49.01 | 10 min | 4363 | 0.88 | 0.90 | 0.07 | 0.91 | 0.94 | 0.73 | 0.88 | 0.44 | 0.61 | 0.94 | 0.03 | 3.7% |
| SC-5.01 | 10 min | 4354 | 0.56 | 0.56 | 0.04 | 0.57 | 0.57 | 0.48 | 0.53 | 0.28 | 0.42 | 0.57 | 0.00 | -0.3% |
| SC-50.01 | 10 min | 4364 | 0.31 | 0.30 | 0.03 | 0.31 | 0.30 | 0.29 | 0.27 | 0.16 | 0.24 | 0.30 | -0.01 | -4.5% |
| SC-51.01 | 10 min | 4365 | 0.31 | 0.31 | 0.03 | 0.31 | 0.32 | 0.27 | 0.30 | 0.15 | 0.22 | 0.32 | 0.01 | 4.1% |
| SC-52.01 | 10 min | 4368 | 0.31 | 0.32 | 0.03 | 0.32 | 0.33 | 0.26 | 0.31 | 0.16 | 0.21 | 0.33 | 0.01 | 2.9% |
| SC-53.01 | 10 min | 4363 | 0.76 | 0.77 | 0.06 | 0.78 | 0.81 | 0.63 | 0.75 | 0.38 | 0.54 | 0.81 | 0.03 | 4.4% |
| SC-53.02 | 10 min | 4354 | 1.57 | 1.55 | 0.12 | 1.58 | 1.58 | 1.38 | 1.45 | 0.79 | 1.19 | 1.58 | 0.00 | -0.2% |
| SC-53.03 | 10 min | 4361 | 1.89 | 1.90 | 0.13 | 1.92 | 1.94 | 1.65 | 1.80 | 0.97 | 1.44 | 1.94 | 0.02 | 0.9% |
| SC-54.01 | 10 min | 4363 | 0.61 | 0.63 | 0.05 | 0.63 | 0.66 | 0.51 | 0.61 | 0.31 | 0.43 | 0.66 | 0.03 | 4.8% |
| SC-54.02 | 10 min | 4354 | 1.20 | 1.18 | 0.09 | 1.20 | 1.20 | 1.05 | 1.10 | 0.60 | 0.90 | 1.20 | 0.00 | -0.1% |
| SC-55.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.99 | 1.03 | 0.79 | 0.95 | 0.48 | 0.67 | 1.03 | 0.04 | 3.7% |
| SC-56.01 | 10 min | 4354 | 0.46 | 0.45 | 0.04 | 0.45 | 0.45 | 0.40 | 0.42 | 0.22 | 0.34 | 0.45 | 0.00 | 1.0% |
| SC-57.01 | 10 min | 4364 | 0.33 | 0.33 | 0.04 | 0.34 | 0.30 | 0.31 | 0.29 | 0.17 | 0.26 | 0.31 | -0.03 | -8.6% |
| SC-58.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.64 | 0.67 | 0.51 | 0.62 | 0.31 | 0.45 | 0.67 | 0.03 | 4.8% |
| SC-59.01 | 10 min | 4363 | 0.84 | 0.86 | 0.07 | 0.86 | 0.90 | 0.70 | 0.83 | 0.44 | 0.64 | 0.90 | 0.04 | 4.1% |
| SC-59.02 | 10 min | 4354 | 1.61 | 1.59 | 0.11 | 1.62 | 1.62 | 1.41 | 1.50 | 0.83 | 1.25 | 1.62 | 0.00 | -0.2% |
| SC-59.03 | 10 min | 4354 | 2.34 | 2.33 | 0.16 | 2.37 | 2.37 | 2.04 | 2.19 | 1.20 | 1.81 | 2.37 | 0.00 | -0.2% |
| SC-59.04 | 10 min | 4354 | 3.01 | 3.02 | 0.21 | 3.07 | 3.07 | 2.60 | 2.83 | 1.55 | 2.32 | 3.07 | 0.00 | -0.2% |
| SC-59.05 | 10 min | 4354 | 6.54 | 6.42 | 0.40 | 6.51 | 6.51 | 5.89 | 5.94 | 3.43 | 5.24 | 6.51 | 0.00 | -0.1% |
| SC-59.06 | 10 min | 4354 | 7.58 | 7.42 | 0.40 | 7.47 | 7.47 | 7.00 | 6.69 | 3.90 | 6.22 | 7.47 | 0.00 | -0.1% |
| SC-59.07 | 10 min | 4364 | 12.86 | 12.53 | 0.82 | 12.54 | 12.43 | 11.98 | 11.27 | 6.85 | 10.79 | 12.43 | -0.11 | -0.9% |
| SC-59.08 | 15 min | 4401 | 12.67 | 12.41 | 1.52 | 12.60 | 11.64 | 12.92 | 10.38 | 7.17 | 11.77 | 12.92 | 0.32 | 2.5% |
| SC-59.09 | 15 min | 4401 | 15.20 | 15.22 | 1.21 | 15.43 | 13.78 | 15.92 | 11.60 | 8.67 | 14.49 | 15.92 | 0.49 | 3.2% |
| SC-59.10 | 25 min | 4394 | 13.46 | 13.76 | 1.23 | 14.00 | 6.94 | 11.29 | 11.08 | 9.57 | 15.32 | 15.32 | 1.32 | 9.4% |
| SC-6.01 | 10 min | 4363 | 0.71 | 0.72 | 0.06 | 0.74 | 0.77 | 0.58 | 0.72 | 0.36 | 0.49 | 0.77 | 0.03 | 4.6% |
| SC-60.01 | 10 min | 4364 | 0.58 | 0.58 | 0.06 | 0.59 | 0.51 | 0.54 | 0.52 | 0.32 | 0.50 | 0.54 | -0.05 | -8.6% |
| SC-60.02 | 10 min | 4364 | 2.34 | 2.29 | 0.21 | 2.31 | 2.21 | 2.10 | 2.05 | 1.24 | 1.92 | 2.21 | -0.10 | -4.4% |
| SC-61.01 | 10 min | 4364 | 1.23 | 1.19 | 0.10 | 1.20 | 1.18 | 1.08 | 1.09 | 0.63 | 0.97 | 1.18 | -0.02 | -1.8% |
| SC-62.01 | 10 min | 4363 | 0.74 | 0.75 | 0.06 | 0.75 | 0.79 | 0.62 | 0.73 | 0.37 | 0.52 | 0.79 | 0.04 | 4.7% |
| SC-63.01 | 10 min | 4364 | 0.43 | 0.43 | 0.05 | 0.44 | 0.37 | 0.39 | 0.37 | 0.23 | 0.36 | 0.39 | -0.05 | -11.5% |
| SC-64.01 | 10 min | 4363 | 0.55 | 0.56 | 0.05 | 0.57 | 0.60 | 0.46 | 0.55 | 0.28 | 0.40 | 0.60 | 0.03 | 5.1% |
| SC-64.02 | 10 min | 4354 | 1.91 | 1.88 | 0.14 | 1.91 | 1.91 | 1.67 | 1.76 | 0.99 | 1.49 | 1.91 | 0.00 | -0.1% |
| SC-64.03 | 10 min | 4354 | 3.56 | 3.54 | 0.25 | 3.60 | 3.60 | 3.09 | 3.32 | 1.85 | 2.79 | 3.60 | 0.00 | -0.1% |
| SC-64.04 | 10 min | 4354 | 5.08 | 4.95 | 0.35 | 5.02 | 5.02 | 4.56 | 4.60 | 2.72 | 4.16 | 5.02 | 0.00 | 0.1% |
| SC-65.01 | 10 min | 4363 | 0.43 | 0.44 | 0.04 | 0.44 | 0.46 | 0.36 | 0.43 | 0.22 | 0.32 | 0.46 | 0.02 | 5.3% |
| SC-66.01 | 10 min | 4354 | 0.36 | 0.35 | 0.03 | 0.35 | 0.35 | 0.32 | 0.32 | 0.18 | 0.27 | 0.35 | 0.00 | -0.6% |
| SC-66.02 | 10 min | 4364 | 0.85 | 0.86 | 0.09 | 0.87 | 0.75 | 0.81 | 0.77 | 0.47 | 0.75 | 0.81 | -0.06 | -6.3% |
| SC-67.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.64 | 0.67 | 0.51 | 0.62 | 0.31 | 0.43 | 0.67 | 0.03 | 4.5% |
| SC-68.01 | 10 min | 4363 | 0.85 | 0.86 | 0.07 | 0.88 | 0.91 | 0.70 | 0.84 | 0.43 | 0.60 | 0.91 | 0.03 | 3.5% |
| SC-68.02 | 10 min | 4354 | 1.63 | 1.62 | 0.12 | 1.65 | 1.65 | 1.43 | 1.53 | 0.81 | 1.21 | 1.65 | 0.00 | -0.1% |
| SC-68.03 | 10 min | 4365 | 2.94 | 2.99 | 0.23 | 3.01 | 3.09 | 2.51 | 2.86 | 1.49 | 2.16 | 3.09 | 0.08 | 2.8% |
| SC-69.01 | 10 min | 4363 | 0.73 | 0.73 | 0.06 | 0.76 | 0.79 | 0.58 | 0.73 | 0.37 | 0.49 | 0.79 | 0.03 | 4.4% |
| SC-7.01 | 10 min | 4361 | 0.97 | 0.98 | 0.06 | 0.98 | 1.00 | 0.82 | 0.93 | 0.51 | 0.76 | 1.00 | 0.02 | 2.1% |
| SC-70.01 | 10 min | 4363 | 0.67 | 0.69 | 0.06 | 0.69 | 0.72 | 0.57 | 0.66 | 0.34 | 0.47 | 0.72 | 0.03 | 3.7% |
| SC-70.02 | 10 min | 4354 | 1.08 | 1.09 | 0.08 | 1.10 | 1.10 | 0.94 | 1.02 | 0.54 | 0.80 | 1.10 | 0.00 | 0.2% |
| SC-71.01 | 10 min | 4363 | 0.84 | 0.86 | 0.07 | 0.87 | 0.91 | 0.70 | 0.84 | 0.42 | 0.60 | 0.91 | 0.04 | 4.4% |
| SC-71.02 | 10 min | 4354 | 1.64 | 1.63 | 0.12 | 1.65 | 1.65 | 1.43 | 1.53 | 0.82 | 1.24 | 1.65 | 0.00 | 0.2% |
| SC-72.01 | 10 min | 4363 | 0.91 | 0.93 | 0.08 | 0.94 | 0.98 | 0.75 | 0.91 | 0.46 | 0.64 | 0.98 | 0.04 | 4.5% |
| SC-73.01 | 10 min | 4363 | 0.74 | 0.76 | 0.06 | 0.76 | 0.79 | 0.61 | 0.73 | 0.37 | 0.54 | 0.79 | 0.03 | 4.4% |
| SC-74.01 | 10 min | 4363 | 0.85 | 0.87 | 0.07 | 0.88 | 0.92 | 0.70 | 0.85 | 0.43 | 0.60 | 0.92 | 0.04 | 4.4% |
| SC-75.01 | 10 min | 4364 | 0.53 | 0.51 | 0.05 | 0.52 | 0.50 | 0.47 | 0.46 | 0.27 | 0.41 | 0.50 | -0.02 | -3.9% |
| SC-75.02 | 10 min | 4364 | 2.10 | 2.08 | 0.21 | 2.10 | 1.95 | 1.88 | 1.84 | 1.11 | 1.74 | 1.95 | -0.16 | -7.4% |
| SC-75.03 | 10 min | 4364 | 3.04 | 2.96 | 0.23 | 2.98 | 2.91 | 2.73 | 2.69 | 1.60 | 2.51 | 2.91 | -0.08 | -2.5% |
| SC-75.04 | 10 min | 4354 | 5.24 | 5.08 | 0.38 | 5.09 | 5.09 | 4.72 | 4.70 | 2.74 | 4.23 | 5.09 | 0.00 | 0.1% |
| SC-76.01 | 10 min | 4364 | 0.70 | 0.71 | 0.08 | 0.72 | 0.61 | 0.65 | 0.61 | 0.37 | 0.60 | 0.65 | -0.07 | -9.3% |
| SC-77.01 | 10 min | 4363 | 1.00 | 1.02 | 0.08 | 1.04 | 1.08 | 0.82 | 1.00 | 0.50 | 0.71 | 1.08 | 0.04 | 3.7% |
| SC-77.02 | 10 min | 4363 | 1.51 | 1.54 | 0.13 | 1.57 | 1.63 | 1.25 | 1.51 | 0.76 | 1.06 | 1.63 | 0.06 | 3.8% |
| SC-77.03 | 10 min | 4361 | 2.15 | 2.17 | 0.16 | 2.17 | 2.23 | 1.83 | 2.07 | 1.07 | 1.58 | 2.23 | 0.06 | 2.8% |
| SC-78.01 | 10 min | 4363 | 0.94 | 0.96 | 0.08 | 0.98 | 1.02 | 0.78 | 0.94 | 0.47 | 0.67 | 1.02 | 0.04 | 4.2% |
| SC-79.01 | 10 min | 4365 | 1.02 | 1.04 | 0.08 | 1.04 | 1.07 | 0.86 | 0.99 | 0.55 | 0.79 | 1.07 | 0.03 | 2.9% |
| SC-79.02 | 10 min | 4365 | 1.88 | 1.92 | 0.15 | 1.93 | 1.99 | 1.61 | 1.84 | 1.03 | 1.45 | 1.99 | 0.06 | 2.9% |
| SC-79.03 | 10 min | 4361 | 4.18 | 4.22 | 0.30 | 4.24 | 4.32 | 3.66 | 3.97 | 2.18 | 3.21 | 4.32 | 0.08 | 1.8% |
| SC-8.01 | 10 min | 4361 | 0.82 | 0.82 | 0.05 | 0.83 | 0.84 | 0.69 | 0.78 | 0.43 | 0.63 | 0.84 | 0.01 | 1.3% |
| SC-8.02 | 10 min | 4354 | 1.99 | 1.95 | 0.14 | 1.98 | 1.98 | 1.73 | 1.83 | 1.03 | 1.57 | 1.98 | 0.00 | 0.1% |
| SC-8.03 | 10 min | 4354 | 5.08 | 5.09 | 0.34 | 5.16 | 5.16 | 4.46 | 4.77 | 2.65 | 3.99 | 5.16 | 0.00 | 0.1% |
| SC-8.04 | 10 min | 4361 | 8.96 | 9.03 | 0.64 | 9.09 | 9.24 | 7.78 | 8.54 | 4.65 | 7.00 | 9.24 | 0.15 | 1.6% |
| SC-8.05 | 10 min | 4365 | 9.75 | 9.86 | 0.62 | 9.91 | 10.17 | 8.72 | 9.34 | 5.15 | 7.78 | 10.17 | 0.26 | 2.7% |
| SC-8.06 | 10 min | 4363 | 10.11 | 10.15 | 0.56 | 10.27 | 10.61 | 9.23 | 9.69 | 5.37 | 8.15 | 10.61 | 0.34 | 3.3% |
| SC-80.01 | 10 min | 4363 | 0.99 | 1.01 | 0.08 | 1.02 | 1.06 | 0.82 | 0.98 | 0.50 | 0.70 | 1.06 | 0.04 | 4.0% |
| SC-80.02 | 10 min | 4354 | 1.99 | 1.99 | 0.14 | 2.01 | 2.01 | 1.73 | 1.87 | 0.99 | 1.49 | 2.01 | 0.00 | 0.2% |
| SC-81.01 | 10 min | 4354 | 0.76 | 0.75 | 0.05 | 0.76 | 0.76 | 0.66 | 0.70 | 0.38 | 0.57 | 0.76 | 0.00 | 0.0% |
| SC-81.02 | 10 min | 4354 | 2.22 | 2.20 | 0.15 | 2.24 | 2.24 | 1.91 | 2.07 | 1.11 | 1.67 | 2.24 | -0.01 | -0.2% |
| SC-82.01 | 10 min | 4363 | 0.88 | 0.90 | 0.07 | 0.91 | 0.94 | 0.73 | 0.87 | 0.44 | 0.63 | 0.94 | 0.03 | 3.6% |
| SC-83.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.57 | 0.60 | 0.46 | 0.55 | 0.28 | 0.40 | 0.60 | 0.03 | 4.7% |
| SC-84.01 | 10 min | 4365 | 0.83 | 0.85 | 0.06 | 0.85 | 0.88 | 0.70 | 0.81 | 0.41 | 0.61 | 0.88 | 0.03 | 3.3% |
| SC-84.02 | 10 min | 4368 | 2.05 | 2.09 | 0.16 | 2.09 | 2.17 | 1.72 | 2.01 | 1.03 | 1.52 | 2.17 | 0.08 | 3.9% |
| SC-84.03 | 10 min | 4365 | 2.72 | 2.75 | 0.20 | 2.76 | 2.84 | 2.30 | 2.63 | 1.36 | 2.03 | 2.84 | 0.08 | 3.0% |
| SC-84.04 | 10 min | 4365 | 3.23 | 3.26 | 0.25 | 3.27 | 3.37 | 2.75 | 3.11 | 1.62 | 2.41 | 3.37 | 0.10 | 2.9% |
| SC-84.05 | 10 min | 4368 | 3.83 | 3.88 | 0.22 | 3.89 | 4.00 | 3.40 | 3.65 | 1.94 | 2.93 | 4.00 | 0.11 | 2.8% |
| SC-84.06 | 10 min | 4363 | 4.22 | 4.26 | 0.18 | 4.27 | 4.38 | 3.83 | 3.94 | 2.12 | 3.30 | 4.38 | 0.11 | 2.6% |
| SC-85.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.53 | 0.55 | 0.43 | 0.51 | 0.26 | 0.36 | 0.55 | 0.02 | 3.9% |
| SC-86.01 | 10 min | 4363 | 0.78 | 0.80 | 0.07 | 0.81 | 0.85 | 0.64 | 0.78 | 0.39 | 0.56 | 0.85 | 0.04 | 4.4% |
| SC-86.02 | 10 min | 4368 | 1.53 | 1.56 | 0.12 | 1.56 | 1.62 | 1.28 | 1.50 | 0.90 | 1.26 | 1.62 | 0.06 | 3.8% |
| SC-87.01 | 10 min | 4363 | 1.14 | 1.16 | 0.10 | 1.19 | 1.24 | 0.94 | 1.15 | 0.57 | 0.81 | 1.24 | 0.05 | 4.0% |
| SC-87.02 | 10 min | 4365 | 1.95 | 1.98 | 0.15 | 1.99 | 2.04 | 1.65 | 1.90 | 0.99 | 1.45 | 2.04 | 0.05 | 2.7% |
| SC-88.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.53 | 0.55 | 0.43 | 0.51 | 0.26 | 0.38 | 0.55 | 0.02 | 4.4% |
| SC-88.02 | 10 min | 4365 | 0.85 | 0.86 | 0.06 | 0.87 | 0.89 | 0.72 | 0.82 | 0.47 | 0.70 | 0.89 | 0.02 | 2.4% |
| SC-89.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.58 | 0.61 | 0.46 | 0.56 | 0.28 | 0.41 | 0.61 | 0.03 | 4.9% |
| SC-89.02 | 10 min | 4365 | 0.63 | 0.64 | 0.05 | 0.64 | 0.66 | 0.54 | 0.61 | 0.32 | 0.47 | 0.66 | 0.02 | 2.9% |
| SC-9.01 | 10 min | 4363 | 0.74 | 0.75 | 0.06 | 0.77 | 0.80 | 0.61 | 0.74 | 0.37 | 0.53 | 0.80 | 0.03 | 3.5% |
| SC-90.01 | 10 min | 4363 | 0.23 | 0.23 | 0.02 | 0.23 | 0.24 | 0.19 | 0.22 | 0.12 | 0.17 | 0.24 | 0.01 | 6.0% |
| SC-91.01 | 10 min | 4363 | 0.66 | 0.67 | 0.06 | 0.69 | 0.72 | 0.53 | 0.67 | 0.34 | 0.44 | 0.72 | 0.03 | 4.9% |
| SC-91.02 | 10 min | 4363 | 1.39 | 1.42 | 0.12 | 1.43 | 1.49 | 1.16 | 1.37 | 0.70 | 0.98 | 1.49 | 0.06 | 3.9% |
| SC-92.01 | 10 min | 4361 | 0.68 | 0.68 | 0.05 | 0.69 | 0.69 | 0.57 | 0.64 | 0.34 | 0.51 | 0.69 | 0.00 | 0.5% |
| SC-92.02 | 10 min | 4354 | 1.92 | 1.88 | 0.14 | 1.91 | 1.91 | 1.67 | 1.75 | 1.02 | 1.55 | 1.91 | 0.00 | -0.3% |
| SC-93.01 | 10 min | 4363 | 0.72 | 0.74 | 0.06 | 0.74 | 0.77 | 0.60 | 0.72 | 0.36 | 0.52 | 0.77 | 0.03 | 4.6% |
| SC-94.01 | 10 min | 4363 | 0.79 | 0.80 | 0.07 | 0.83 | 0.86 | 0.64 | 0.80 | 0.40 | 0.54 | 0.86 | 0.03 | 3.6% |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0.73 | 0.73 | 0.01 | 0.73 | 0.79 | 0.79 | 0.01 | 0.79 |
| 12.10 | 11.91 | 1.21 | 12.48 | 13.07 | 12.86 | 1.31 | 13.48 |
| 0.71 | 0.73 | 0.07 | 0.72 | 0.77 | 0.79 | 0.08 | 0.78 |
| 0.57 | 0.57 | 0.02 | 0.57 | 0.62 | 0.62 | 0.02 | 0.62 |
| 1.49 | 1.49 | 0.07 | 1.50 | 1.61 | 1.61 | 0.08 | 1.62 |
| 2.58 | 2.59 | 0.03 | 2.59 | 2.79 | 2.80 | 0.03 | 2.80 |
| 2.64 | 2.65 | 0.03 | 2.65 | 2.85 | 2.86 | 0.03 | 2.86 |

## ARR2019 Results for 0.5%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 15 min | 20 min | 60 min | 120 min | | $m^3/s$ | % |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4400 | 4371 | 4558 | 4611 | | | |
| SC-94.02 | 10 min | 4368 | 1.87 | 1.90 | 0.15 | 1.91 | 1.98 | 1.58 | 1.83 | 0.95 | 1.35 | 1.98 | 0.07 | 3.8% |
| SC-95.01 | 10 min | 4363 | 0.47 | 0.47 | 0.04 | 0.49 | 0.51 | 0.37 | 0.47 | 0.24 | 0.31 | 0.51 | 0.02 | 4.0% |
| SC-95.02 | 10 min | 4363 | 1.13 | 1.16 | 0.10 | 1.18 | 1.23 | 0.94 | 1.14 | 0.58 | 0.79 | 1.23 | 0.05 | 3.9% |
| SC-96.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.55 | 0.57 | 0.42 | 0.53 | 0.27 | 0.36 | 0.57 | 0.02 | 3.3% |
| SC-97.01 | 10 min | 4363 | 0.35 | 0.36 | 0.03 | 0.37 | 0.39 | 0.28 | 0.36 | 0.18 | 0.24 | 0.39 | 0.02 | 4.4% |
| SC-97.02 | 10 min | 4361 | 2.07 | 2.09 | 0.15 | 2.11 | 2.13 | 1.79 | 1.97 | 1.07 | 1.59 | 2.13 | 0.02 | 0.9% |
| SC-98.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.64 | 0.66 | 0.51 | 0.61 | 0.31 | 0.45 | 0.66 | 0.02 | 3.8% |
| SC-99.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.64 | 0.49 | 0.60 | 0.30 | 0.41 | 0.64 | 0.02 | 3.8% |
| SC-99.02 | 10 min | 4354 | 1.66 | 1.65 | 0.13 | 1.67 | 1.67 | 1.45 | 1.54 | 0.82 | 1.22 | 1.67 | 0.00 | 0.1% |
| SC-99.03 | 10 min | 4354 | 2.87 | 2.82 | 0.21 | 2.87 | 2.87 | 2.51 | 2.64 | 1.43 | 2.16 | 2.87 | 0.00 | -0.2% |
| SC-99.04 | 10 min | 4361 | 7.57 | 7.62 | 0.51 | 7.67 | 7.79 | 6.69 | 7.16 | 3.91 | 5.90 | 7.79 | 0.12 | 1.6% |
| Dummy1 | 10 min | 4364 | 38.58 | 38.50 | 0.88 | 38.58 | 37.79 | 38.80 | 32.45 | 20.55 | 34.64 | 38.80 | 0.22 | 0.6% |
| Dummy2 | 25 min | 4394 | 60.61 | 60.02 | 3.91 | 60.37 | 50.57 | 54.57 | 63.64 | 42.73 | 56.77 | 63.64 | 3.27 | 5.4% |
| Dummy3 | 30 min | 4497 | 116.78 | 116.09 | 7.96 | 116.32 | 95.23 | 107.94 | 103.92 | 95.22 | 119.46 | 119.46 | 3.14 | 2.7% |
| DummyOut | 1.50 hour | 4588 | 126.23 | 123.70 | 11.80 | 124.02 | 95.74 | 108.48 | 105.04 | 120.88 | 139.09 | 139.09 | 15.07 | 12.2% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-1.01 | 10 min | 4361 | 1.13 | 1.14 | 0.08 | 1.14 | 1.17 | 1.22 | 1.08 | 0.76 | 0.63 | 1.22 | 0.08 | 7.4% |
| SC-1.02 | 10 min | 4354 | 2.44 | 2.44 | 0.16 | 2.48 | 2.48 | 2.59 | 2.30 | 1.66 | 1.38 | 2.59 | 0.11 | 4.4% |
| SC-1.03 | 10 min | 4365 | 2.87 | 2.89 | 0.19 | 2.90 | 2.98 | 3.12 | 2.77 | 1.95 | 1.61 | 3.12 | 0.22 | 7.6% |
| SC-1.04 | 10 min | 4354 | 7.77 | 7.56 | 0.54 | 7.68 | 7.68 | 8.04 | 7.10 | 5.36 | 4.46 | 8.04 | 0.36 | 4.7% |
| SC-1.05 | 10 min | 4354 | 8.30 | 8.24 | 0.51 | 8.35 | 8.35 | 8.64 | 7.69 | 5.83 | 4.88 | 8.64 | 0.29 | 3.5% |
| SC-1.06 | 10 min | 4354 | 9.55 | 9.45 | 0.52 | 9.56 | 9.56 | 9.63 | 8.69 | 6.73 | 5.72 | 9.63 | 0.07 | 0.7% |
| SC-1.07 | 10 min | 4354 | 9.68 | 9.69 | 0.49 | 9.79 | 9.79 | 9.80 | 8.88 | 6.89 | 5.88 | 9.80 | 0.01 | 0.1% |
| SC-1.08 | 45 min | 4528 | 11.30 | 11.15 | 1.04 | 11.61 | 5.72 | 8.14 | 9.59 | 12.11 | 8.95 | 12.11 | 0.50 | 4.3% |
| SC-1.09 | 45 min | 4533 | 12.18 | 12.17 | 0.80 | 12.31 | 5.87 | 8.30 | 9.77 | 12.31 | 9.44 | 12.31 | 0.00 | 0.0% |
| SC-1.10 | 45 min | 4533 | 12.31 | 12.26 | 0.75 | 12.33 | 5.88 | 8.31 | 9.78 | 12.33 | 9.55 | 12.33 | 0.00 | 0.0% |
| SC-1.11 | 30 min | 4503 | 16.83 | 16.54 | 0.95 | 16.66 | 16.62 | 16.55 | 17.19 | 18.01 | 12.85 | 18.01 | 1.35 | 8.1% |
| SC-1.12 | 10 min | 4354 | 21.04 | 20.68 | 0.84 | 20.83 | 20.83 | 20.27 | 20.00 | 20.69 | 14.78 | 20.83 | 0.00 | 0.0% |
| SC-1.13 | 10 min | 4361 | 23.83 | 23.76 | 0.47 | 23.85 | 23.89 | 22.57 | 21.12 | 22.91 | 16.17 | 23.89 | 0.04 | 0.1% |
| SC-1.14 | 10 min | 4354 | 28.56 | 28.45 | 0.45 | 28.48 | 28.48 | 26.33 | 24.91 | 26.18 | 18.57 | 28.48 | 0.00 | 0.0% |
| SC-1.15 | 10 min | 4364 | 31.04 | 30.82 | 0.51 | 30.82 | 30.76 | 28.60 | 26.92 | 28.02 | 19.99 | 30.76 | -0.06 | -0.2% |
| SC-1.16 | 15 min | 4358 | 34.84 | 35.20 | 0.74 | 35.21 | 32.75 | 33.96 | 29.40 | 31.41 | 23.80 | 33.96 | -1.25 | -3.5% |
| SC-1.17 | 15 min | 4397 | 35.42 | 35.64 | 0.73 | 35.64 | 32.95 | 34.78 | 29.74 | 31.93 | 24.39 | 34.78 | -0.86 | -2.4% |
| SC-1.18 | 45 min | 4496 | 21.50 | 21.53 | 0.34 | 21.75 | 17.64 | 19.37 | 19.72 | 21.88 | 18.90 | 21.88 | 0.13 | 0.6% |
| SC-1.19 | 1 hour | 4558 | 28.80 | 28.52 | 0.99 | 28.56 | 12.41 | 17.65 | 20.85 | 29.04 | 23.98 | 29.04 | 0.48 | 1.7% |
| SC-1.20 | 1 hour | 4555 | 24.27 | 24.24 | 0.11 | 24.24 | 12.15 | 16.39 | 18.82 | 23.84 | 23.38 | 23.84 | -0.40 | -1.7% |
| SC-1.21 | 12 hours | 4787 | 24.36 | 22.68 | 6.79 | 23.89 | 12.16 | 16.39 | 18.82 | 23.84 | 23.99 | 23.99 | 0.10 | 0.4% |
| SC-1.22 | 1.50 hour | 4501 | 25.08 | 25.19 | 0.50 | 25.29 | 12.18 | 16.43 | 18.87 | 23.91 | 25.09 | 25.09 | -0.20 | -0.8% |
| SC-1.23 | 1.50 hour | 4532 | 29.20 | 29.47 | 1.68 | 29.71 | 22.92 | 22.93 | 23.84 | 25.50 | 29.17 | 29.17 | -0.54 | -1.8% |
| SC-1.24 | 20 min | 4428 | 38.67 | 38.27 | 3.32 | 38.30 | 37.03 | 34.98 | 33.60 | 36.97 | 33.87 | 37.03 | -1.27 | -3.3% |
| SC-1.25 | 25 min | 4462 | 39.40 | 39.31 | 3.24 | 39.43 | 37.48 | 36.47 | 33.69 | 37.78 | 34.20 | 37.78 | -1.66 | -4.2% |
| SC-1.26 | 25 min | 4462 | 42.55 | 43.11 | 2.92 | 43.14 | 39.13 | 41.41 | 35.82 | 40.31 | 35.32 | 41.41 | -1.73 | -4.0% |
| SC-1.27 | 25 min | 4458 | 43.34 | 44.02 | 2.89 | 44.14 | 39.72 | 42.30 | 36.71 | 40.85 | 35.65 | 42.30 | -1.84 | -4.2% |
| SC-1.28 | 15 min | 4396 | 57.61 | 57.42 | 0.99 | 57.82 | 49.21 | 57.82 | 52.88 | 51.50 | 46.83 | 57.82 | 0.00 | 0.0% |
| SC-1.29 | 25 min | 4459 | 61.24 | 61.00 | 2.66 | 61.04 | 49.98 | 60.44 | 56.12 | 54.45 | 50.42 | 60.44 | -0.60 | -1.0% |
| SC-1.30 | 25 min | 4459 | 62.43 | 62.16 | 2.60 | 62.56 | 50.21 | 60.90 | 58.08 | 56.56 | 51.40 | 60.90 | -1.66 | -2.6% |
| SC-1.31 | 25 min | 4459 | 63.16 | 62.97 | 2.60 | 63.41 | 50.40 | 61.21 | 59.02 | 58.08 | 51.98 | 61.21 | -2.20 | -3.5% |
| SC-1.32 | 25 min | 4459 | 64.32 | 64.60 | 2.64 | 64.68 | 50.69 | 61.66 | 60.19 | 60.08 | 52.94 | 61.66 | -3.02 | -4.7% |
| SC-1.33 | 30 min | 4504 | 66.59 | 66.34 | 3.95 | 66.69 | 51.08 | 62.23 | 61.65 | 63.35 | 54.56 | 63.35 | -3.34 | -5.0% |
| SC-1.34 | 30 min | 4504 | 66.94 | 66.63 | 3.78 | 66.76 | 51.09 | 62.26 | 61.75 | 63.70 | 55.11 | 63.70 | -3.06 | -4.6% |
| SC-1.35 | 30 min | 4495 | 67.39 | 67.00 | 3.58 | 67.11 | 51.14 | 62.33 | 61.92 | 64.19 | 55.67 | 64.19 | -2.92 | -4.3% |
| SC-1.36 | 30 min | 4495 | 70.20 | 69.96 | 2.50 | 70.80 | 51.40 | 62.70 | 62.78 | 71.03 | 59.03 | 71.03 | 0.23 | 0.3% |
| SC-10.01 | 10 min | 4363 | 1.14 | 1.17 | 0.09 | 1.17 | 1.22 | 1.28 | 1.14 | 0.70 | 0.58 | 1.28 | 0.11 | 9.2% |
| SC-100.01 | 10 min | 4363 | 1.33 | 1.35 | 0.11 | 1.39 | 1.45 | 1.51 | 1.34 | 0.80 | 0.65 | 1.51 | 0.12 | 8.7% |
| SC-100.02 | 10 min | 4363 | 2.32 | 2.37 | 0.20 | 2.38 | 2.48 | 2.60 | 2.30 | 1.44 | 1.18 | 2.60 | 0.22 | 9.0% |
| SC-101.01 | 10 min | 4361 | 1.43 | 1.44 | 0.10 | 1.45 | 1.47 | 1.54 | 1.37 | 0.89 | 0.74 | 1.54 | 0.09 | 5.9% |
| SC-101.02 | 10 min | 4354 | 2.54 | 2.47 | 0.19 | 2.51 | 2.51 | 2.63 | 2.32 | 1.62 | 1.35 | 2.63 | 0.12 | 4.9% |
| SC-102.01 | 10 min | 4363 | 1.10 | 1.12 | 0.09 | 1.15 | 1.19 | 1.25 | 1.11 | 0.67 | 0.55 | 1.25 | 0.10 | 8.3% |
| SC-102.02 | 10 min | 4354 | 4.27 | 4.23 | 0.29 | 4.29 | 4.29 | 4.41 | 3.93 | 2.76 | 2.25 | 4.41 | 0.12 | 2.8% |
| SC-103.01 | 10 min | 4363 | 0.74 | 0.75 | 0.06 | 0.76 | 0.79 | 0.83 | 0.74 | 0.45 | 0.36 | 0.83 | 0.07 | 9.2% |
| SC-103.02 | 10 min | 4354 | 2.63 | 2.63 | 0.20 | 2.67 | 2.67 | 2.80 | 2.46 | 1.68 | 1.35 | 2.80 | 0.13 | 4.7% |
| SC-104.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.68 | 0.71 | 0.74 | 0.66 | 0.41 | 0.33 | 0.74 | 0.06 | 8.8% |
| SC-105.01 | 10 min | 4365 | 0.72 | 0.73 | 0.06 | 0.73 | 0.76 | 0.79 | 0.70 | 0.44 | 0.36 | 0.79 | 0.06 | 8.1% |
| SC-105.02 | 10 min | 4354 | 1.73 | 1.71 | 0.13 | 1.73 | 1.73 | 1.82 | 1.60 | 1.11 | 0.89 | 1.82 | 0.09 | 5.1% |
| SC-105.03 | 10 min | 4354 | 4.03 | 3.98 | 0.31 | 4.04 | 4.04 | 4.24 | 3.74 | 2.58 | 2.08 | 4.24 | 0.20 | 5.0% |
| SC-105.04 | 10 min | 4354 | 5.43 | 5.31 | 0.40 | 5.39 | 5.39 | 5.63 | 5.00 | 3.50 | 2.83 | 5.63 | 0.24 | 4.5% |
| SC-105.05 | 10 min | 4354 | 6.58 | 6.40 | 0.49 | 6.50 | 6.50 | 6.78 | 5.98 | 4.31 | 3.53 | 6.78 | 0.28 | 4.3% |
| SC-105.06 | 10 min | 4354 | 7.07 | 6.86 | 0.51 | 6.90 | 6.90 | 7.14 | 6.30 | 4.79 | 4.01 | 7.14 | 0.23 | 3.4% |
| SC-105.07 | 10 min | 4354 | 10.32 | 10.12 | 0.54 | 10.21 | 10.21 | 10.40 | 9.29 | 7.40 | 6.25 | 10.40 | 0.19 | 1.9% |
| SC-105.08 | 15 min | 4396 | 11.65 | 11.56 | 0.94 | 11.60 | 11.75 | 11.60 | 10.57 | 8.56 | 7.39 | 11.75 | 0.15 | 1.3% |
| SC-105.09 | 10 min | 4356 | 15.23 | 15.14 | 0.22 | 15.15 | 15.51 | 14.33 | 13.57 | 11.45 | 9.97 | 15.51 | 0.36 | 2.4% |
| SC-106.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.53 | 0.55 | 0.58 | 0.51 | 0.32 | 0.26 | 0.58 | 0.05 | 8.7% |
| SC-107.01 | 10 min | 4365 | 0.91 | 0.93 | 0.07 | 0.93 | 0.96 | 1.00 | 0.89 | 0.56 | 0.45 | 1.00 | 0.07 | 7.8% |
| SC-108.01 | 10 min | 4363 | 0.66 | 0.67 | 0.06 | 0.68 | 0.71 | 0.74 | 0.66 | 0.40 | 0.32 | 0.74 | 0.06 | 9.2% |
| SC-109.01 | 10 min | 4363 | 0.86 | 0.87 | 0.07 | 0.88 | 0.92 | 0.96 | 0.85 | 0.52 | 0.43 | 0.96 | 0.08 | 8.8% |
| SC-11.01 | 10 min | 4368 | 0.71 | 0.72 | 0.06 | 0.73 | 0.75 | 0.78 | 0.69 | 0.43 | 0.35 | 0.78 | 0.05 | 6.9% |
| SC-110.01 | 10 min | 4363 | 0.79 | 0.80 | 0.07 | 0.82 | 0.85 | 0.89 | 0.79 | 0.48 | 0.40 | 0.89 | 0.07 | 8.5% |
| SC-110.02 | 10 min | 4354 | 1.84 | 1.81 | 0.13 | 1.84 | 1.84 | 1.93 | 1.70 | 1.18 | 0.98 | 1.93 | 0.09 | 4.7% |
| SC-110.03 | 10 min | 4354 | 1.98 | 1.96 | 0.13 | 1.99 | 1.99 | 2.08 | 1.85 | 1.29 | 1.08 | 2.08 | 0.09 | 4.4% |
| SC-111.01 | 15 min | 4401 | 0.59 | 0.55 | 0.09 | 0.56 | 0.53 | 0.49 | 0.50 | 0.45 | 0.39 | 0.53 | -0.03 | -6.0% |
| SC-112.01 | 10 min | 4363 | 1.34 | 1.36 | 0.11 | 1.38 | 1.44 | 1.51 | 1.33 | 0.82 | 0.68 | 1.51 | 0.13 | 9.1% |
| SC-113.01 | 10 min | 4368 | 0.49 | 0.50 | 0.04 | 0.50 | 0.51 | 0.54 | 0.48 | 0.30 | 0.25 | 0.54 | 0.04 | 7.6% |
| SC-113.02 | 10 min | 4354 | 1.62 | 1.57 | 0.12 | 1.60 | 1.60 | 1.68 | 1.48 | 1.07 | 0.89 | 1.68 | 0.08 | 4.8% |
| SC-114.01 | 10 min | 4361 | 0.87 | 0.88 | 0.06 | 0.89 | 0.89 | 0.93 | 0.83 | 0.58 | 0.48 | 0.93 | 0.04 | 4.8% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-114.02 | 10 min | 4354 | 1.38 | 1.37 | 0.09 | 1.39 | 1.39 | 1.45 | 1.29 | 0.92 | 0.76 | 1.45 | 0.06 | 4.2% |
| SC-114.03 | 10 min | 4361 | 2.84 | 2.86 | 0.19 | 2.88 | 2.93 | 3.06 | 2.72 | 1.85 | 1.54 | 3.06 | 0.18 | 6.2% |
| SC-115.01 | 10 min | 4363 | 0.76 | 0.78 | 0.06 | 0.79 | 0.82 | 0.86 | 0.76 | 0.46 | 0.39 | 0.86 | 0.07 | 8.8% |
| SC-115.02 | 10 min | 4361 | 1.25 | 1.26 | 0.09 | 1.28 | 1.28 | 1.34 | 1.19 | 0.79 | 0.65 | 1.34 | 0.06 | 4.5% |
| SC-116.01 | 10 min | 4363 | 0.76 | 0.77 | 0.06 | 0.78 | 0.82 | 0.85 | 0.76 | 0.46 | 0.38 | 0.85 | 0.07 | 9.4% |
| SC-116.02 | 10 min | 4361 | 1.24 | 1.25 | 0.09 | 1.25 | 1.29 | 1.35 | 1.20 | 0.78 | 0.65 | 1.35 | 0.10 | 7.8% |
| SC-117.01 | 10 min | 4363 | 0.45 | 0.46 | 0.04 | 0.46 | 0.48 | 0.50 | 0.44 | 0.27 | 0.23 | 0.50 | 0.04 | 8.3% |
| SC-118.01 | 10 min | 4363 | 0.97 | 0.98 | 0.09 | 1.01 | 1.06 | 1.11 | 0.98 | 0.58 | 0.47 | 1.11 | 0.10 | 9.6% |
| SC-119.01 | 10 min | 4363 | 1.50 | 1.53 | 0.13 | 1.55 | 1.62 | 1.69 | 1.50 | 0.92 | 0.77 | 1.69 | 0.14 | 9.2% |
| SC-119.02 | 10 min | 4363 | 3.75 | 3.82 | 0.29 | 3.83 | 3.99 | 4.17 | 3.70 | 2.33 | 1.95 | 4.17 | 0.34 | 8.9% |
| SC-12.01 | 10 min | 4363 | 0.82 | 0.83 | 0.06 | 0.83 | 0.87 | 0.91 | 0.81 | 0.50 | 0.42 | 0.91 | 0.08 | 9.3% |
| SC-12.02 | 10 min | 4363 | 1.41 | 1.44 | 0.12 | 1.46 | 1.52 | 1.59 | 1.41 | 0.85 | 0.71 | 1.59 | 0.13 | 9.0% |
| SC-12.03 | 10 min | 4361 | 2.62 | 2.65 | 0.19 | 2.65 | 2.72 | 2.84 | 2.53 | 1.64 | 1.37 | 2.84 | 0.19 | 7.1% |
| SC-12.04 | 10 min | 4365 | 3.34 | 3.37 | 0.24 | 3.38 | 3.48 | 3.64 | 3.24 | 2.12 | 1.77 | 3.64 | 0.26 | 7.7% |
| SC-120.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.69 | 0.72 | 0.75 | 0.67 | 0.40 | 0.34 | 0.75 | 0.06 | 8.7% |
| SC-121.01 | 10 min | 4363 | 0.84 | 0.86 | 0.07 | 0.86 | 0.90 | 0.94 | 0.83 | 0.51 | 0.43 | 0.94 | 0.08 | 9.3% |
| SC-122.01 | 10 min | 4363 | 1.34 | 1.35 | 0.12 | 1.41 | 1.47 | 1.54 | 1.36 | 0.80 | 0.65 | 1.54 | 0.13 | 8.9% |
| SC-122.02 | 10 min | 4365 | 2.14 | 2.18 | 0.17 | 2.19 | 2.25 | 2.36 | 2.09 | 1.32 | 1.10 | 2.36 | 0.17 | 7.5% |
| SC-122.03 | 10 min | 4365 | 2.90 | 2.94 | 0.24 | 2.95 | 3.04 | 3.19 | 2.82 | 1.83 | 1.51 | 3.19 | 0.24 | 8.0% |
| SC-123.01 | 10 min | 4363 | 0.69 | 0.70 | 0.06 | 0.72 | 0.75 | 0.78 | 0.69 | 0.41 | 0.34 | 0.78 | 0.06 | 8.9% |
| SC-123.02 | 10 min | 4361 | 1.96 | 1.98 | 0.15 | 1.99 | 2.03 | 2.13 | 1.88 | 1.24 | 1.02 | 2.13 | 0.14 | 7.1% |
| SC-123.03 | 10 min | 4354 | 13.54 | 13.19 | 0.86 | 13.36 | 13.36 | 13.89 | 12.43 | 9.86 | 8.17 | 13.89 | 0.53 | 3.9% |
| SC-123.04 | 10 min | 4354 | 13.75 | 13.43 | 0.86 | 13.62 | 13.62 | 14.25 | 12.70 | 10.04 | 8.34 | 14.25 | 0.63 | 4.6% |
| SC-123.05 | 10 min | 4361 | 17.28 | 17.32 | 0.97 | 17.48 | 17.62 | 18.18 | 16.23 | 12.60 | 10.54 | 18.18 | 0.70 | 4.0% |
| SC-123.06 | 10 min | 4365 | 17.70 | 17.71 | 0.89 | 17.80 | 18.24 | 18.61 | 16.72 | 13.02 | 10.96 | 18.61 | 0.81 | 4.6% |
| SC-123.07 | 10 min | 4363 | 18.90 | 18.90 | 0.85 | 19.13 | 19.72 | 19.82 | 17.92 | 14.16 | 12.01 | 19.82 | 0.69 | 3.6% |
| SC-124.01 | 20 min | 4429 | 0.91 | 0.87 | 0.10 | 0.88 | 0.71 | 0.77 | 0.86 | 0.70 | 0.61 | 0.86 | -0.02 | -2.3% |
| SC-124.02 | 20 min | 4433 | 5.82 | 5.57 | 0.72 | 5.60 | 4.96 | 5.09 | 5.55 | 4.49 | 3.81 | 5.55 | -0.05 | -0.8% |
| SC-125.01 | 20 min | 4433 | 1.24 | 1.18 | 0.15 | 1.20 | 1.03 | 1.06 | 1.13 | 0.93 | 0.83 | 1.13 | -0.07 | -6.0% |
| SC-126.01 | 10 min | 4363 | 0.63 | 0.65 | 0.05 | 0.66 | 0.68 | 0.72 | 0.63 | 0.38 | 0.32 | 0.72 | 0.06 | 8.4% |
| SC-126.02 | 20 min | 4433 | 1.68 | 1.63 | 0.19 | 1.64 | 1.32 | 1.40 | 1.62 | 1.31 | 1.11 | 1.62 | -0.02 | -1.4% |
| SC-126.03 | 20 min | 4371 | 3.01 | 2.91 | 0.44 | 2.95 | 2.80 | 2.94 | 2.95 | 2.31 | 1.91 | 2.95 | 0.00 | 0.0% |
| SC-127.01 | 10 min | 4363 | 1.49 | 1.50 | 0.13 | 1.56 | 1.63 | 1.70 | 1.51 | 0.89 | 0.72 | 1.70 | 0.14 | 9.1% |
| SC-127.02 | 10 min | 4363 | 4.03 | 4.10 | 0.35 | 4.17 | 4.34 | 4.54 | 4.03 | 2.48 | 2.03 | 4.54 | 0.37 | 8.9% |
| SC-128.01 | 10 min | 4363 | 1.47 | 1.49 | 0.13 | 1.53 | 1.60 | 1.68 | 1.48 | 0.88 | 0.72 | 1.68 | 0.15 | 9.5% |
| SC-129.01 | 10 min | 4354 | 0.75 | 0.73 | 0.05 | 0.74 | 0.74 | 0.77 | 0.69 | 0.49 | 0.41 | 0.77 | 0.03 | 4.4% |
| SC-13.01 | 10 min | 4363 | 0.75 | 0.76 | 0.06 | 0.77 | 0.80 | 0.84 | 0.74 | 0.45 | 0.38 | 0.84 | 0.07 | 8.8% |
| SC-130.01 | 10 min | 4363 | 1.10 | 1.12 | 0.09 | 1.14 | 1.19 | 1.24 | 1.10 | 0.66 | 0.55 | 1.24 | 0.10 | 8.8% |
| SC-131.01 | 10 min | 4363 | 0.43 | 0.44 | 0.04 | 0.45 | 0.47 | 0.49 | 0.43 | 0.26 | 0.21 | 0.49 | 0.04 | 8.3% |
| SC-132.01 | 10 min | 4363 | 0.62 | 0.63 | 0.05 | 0.63 | 0.65 | 0.68 | 0.61 | 0.38 | 0.31 | 0.68 | 0.05 | 8.5% |
| SC-133.01 | 10 min | 4363 | 0.44 | 0.45 | 0.04 | 0.46 | 0.48 | 0.50 | 0.45 | 0.27 | 0.22 | 0.50 | 0.04 | 9.6% |
| SC-134.01 | 10 min | 4363 | 0.38 | 0.39 | 0.03 | 0.39 | 0.40 | 0.42 | 0.37 | 0.24 | 0.20 | 0.42 | 0.03 | 7.8% |
| SC-134.02 | 10 min | 4364 | 1.25 | 1.26 | 0.08 | 1.27 | 1.17 | 1.10 | 1.00 | 0.89 | 0.75 | 1.17 | -0.10 | -7.9% |
| SC-134.03 | 10 min | 4364 | 2.55 | 2.58 | 0.22 | 2.59 | 2.30 | 2.25 | 2.17 | 1.81 | 1.53 | 2.30 | -0.29 | -11.1% |
| SC-134.04 | 10 min | 4364 | 3.67 | 3.71 | 0.32 | 3.73 | 3.31 | 3.03 | 3.12 | 2.61 | 2.19 | 3.31 | -0.42 | -11.2% |
| SC-135.01 | 10 min | 4368 | 0.30 | 0.31 | 0.02 | 0.31 | 0.32 | 0.33 | 0.30 | 0.18 | 0.15 | 0.33 | 0.02 | 6.9% |
| SC-135.02 | 10 min | 4361 | 1.68 | 1.70 | 0.13 | 1.71 | 1.73 | 1.82 | 1.60 | 1.06 | 0.88 | 1.82 | 0.11 | 6.1% |
| SC-135.03 | 10 min | 4354 | 2.20 | 2.22 | 0.15 | 2.25 | 2.25 | 2.35 | 2.09 | 1.41 | 1.17 | 2.35 | 0.10 | 4.3% |
| SC-135.04 | 10 min | 4361 | 4.89 | 4.93 | 0.34 | 4.99 | 5.01 | 5.24 | 4.65 | 3.17 | 2.63 | 5.24 | 0.25 | 4.9% |
| SC-135.05 | 10 min | 4361 | 5.58 | 5.61 | 0.33 | 5.65 | 5.72 | 5.85 | 5.25 | 3.63 | 3.06 | 5.85 | 0.20 | 3.5% |
| SC-135.06 | 10 min | 4354 | 9.23 | 9.13 | 0.53 | 9.22 | 9.22 | 9.38 | 8.32 | 6.10 | 5.14 | 9.38 | 0.16 | 1.7% |
| SC-136.01 | 10 min | 4363 | 0.89 | 0.91 | 0.08 | 0.93 | 0.96 | 1.01 | 0.90 | 0.54 | 0.45 | 1.01 | 0.08 | 8.4% |
| SC-137.01 | 10 min | 4363 | 0.92 | 0.94 | 0.08 | 0.95 | 0.99 | 1.04 | 0.91 | 0.56 | 0.47 | 1.04 | 0.09 | 8.9% |
| SC-138.01 | 10 min | 4368 | 1.11 | 1.13 | 0.09 | 1.13 | 1.17 | 1.23 | 1.08 | 0.71 | 0.58 | 1.23 | 0.10 | 9.0% |
| SC-139.01 | 10 min | 4368 | 1.08 | 1.10 | 0.08 | 1.10 | 1.15 | 1.20 | 1.07 | 0.68 | 0.56 | 1.20 | 0.10 | 9.2% |
| SC-139.02 | 10 min | 4365 | 1.31 | 1.33 | 0.10 | 1.34 | 1.38 | 1.44 | 1.28 | 0.83 | 0.70 | 1.44 | 0.10 | 7.5% |
| SC-14.01 | 10 min | 4363 | 1.30 | 1.33 | 0.11 | 1.35 | 1.41 | 1.47 | 1.31 | 0.78 | 0.65 | 1.47 | 0.12 | 9.1% |
| SC-14.02 | 10 min | 4361 | 2.04 | 2.06 | 0.15 | 2.06 | 2.11 | 2.21 | 1.96 | 1.26 | 1.06 | 2.21 | 0.15 | 7.2% |
| SC-14.03 | 10 min | 4361 | 2.67 | 2.69 | 0.19 | 2.69 | 2.77 | 2.90 | 2.57 | 1.68 | 1.40 | 2.90 | 0.21 | 7.7% |
| SC-140.01 | 10 min | 4363 | 0.76 | 0.77 | 0.06 | 0.78 | 0.82 | 0.85 | 0.75 | 0.47 | 0.39 | 0.85 | 0.07 | 9.4% |
| SC-141.01 | 10 min | 4364 | 1.27 | 1.27 | 0.16 | 1.28 | 1.10 | 1.03 | 1.06 | 0.84 | 0.68 | 1.10 | -0.18 | -13.8% |
| SC-142.01 | 20 min | 4429 | 2.00 | 1.92 | 0.24 | 1.93 | 1.72 | 1.69 | 1.80 | 1.51 | 1.32 | 1.80 | -0.14 | -7.0% |
| SC-143.01 | 20 min | 4371 | 0.76 | 0.75 | 0.09 | 0.76 | 0.64 | 0.68 | 0.76 | 0.62 | 0.51 | 0.76 | 0.00 | 0.3% |
| SC-143.02 | 10 min | 4364 | 6.24 | 6.09 | 0.59 | 6.16 | 5.86 | 6.16 | 5.56 | 4.36 | 3.52 | 6.16 | 0.00 | -0.1% |
| SC-144.01 | 10 min | 4365 | 0.89 | 0.90 | 0.06 | 0.90 | 0.93 | 0.97 | 0.86 | 0.60 | 0.49 | 0.97 | 0.07 | 7.7% |
| SC-144.02 | 10 min | 4361 | 1.27 | 1.27 | 0.08 | 1.28 | 1.31 | 1.37 | 1.21 | 0.89 | 0.72 | 1.37 | 0.09 | 7.0% |
| SC-144.03 | 10 min | 4365 | 1.70 | 1.70 | 0.06 | 1.70 | 1.74 | 1.76 | 1.58 | 1.24 | 1.05 | 1.76 | 0.06 | 3.3% |
| SC-144.04 | 10 min | 4364 | 3.04 | 3.01 | 0.06 | 3.02 | 2.99 | 2.71 | 2.58 | 2.17 | 1.90 | 2.99 | -0.03 | -0.9% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-144.05 | 10 min | 4364 | 5.64 | 5.65 | 0.28 | 5.67 | 5.35 | 5.27 | 4.65 | 3.94 | 3.35 | 5.35 | -0.32 | -5.6% |
| SC-145.01 | 10 min | 4363 | 1.12 | 1.14 | 0.10 | 1.16 | 1.21 | 1.27 | 1.12 | 0.68 | 0.56 | 1.27 | 0.11 | 9.6% |
| SC-145.02 | 10 min | 4363 | 2.08 | 2.12 | 0.19 | 2.13 | 2.22 | 2.33 | 2.05 | 1.29 | 1.04 | 2.33 | 0.20 | 9.5% |
| SC-146.01 | 15 min | 4401 | 2.31 | 2.17 | 0.33 | 2.20 | 2.04 | 1.91 | 1.90 | 1.76 | 1.50 | 2.04 | -0.16 | -7.2% |
| SC-147.01 | 10 min | 4364 | 1.13 | 1.14 | 0.13 | 1.15 | 0.99 | 0.85 | 0.92 | 0.76 | 0.62 | 0.99 | -0.16 | -14.2% |
| SC-147.02 | 10 min | 4364 | 1.55 | 1.57 | 0.17 | 1.58 | 1.37 | 1.22 | 1.28 | 1.06 | 0.87 | 1.37 | -0.21 | -13.2% |
| SC-147.03 | 10 min | 4364 | 3.94 | 3.91 | 0.45 | 3.95 | 3.57 | 3.57 | 3.37 | 2.70 | 2.21 | 3.57 | -0.38 | -9.5% |
| SC-148.01 | 10 min | 4365 | 0.93 | 0.94 | 0.07 | 0.95 | 0.97 | 1.02 | 0.90 | 0.57 | 0.47 | 1.02 | 0.07 | 6.9% |
| SC-148.02 | 10 min | 4364 | 2.10 | 2.02 | 0.20 | 2.04 | 1.99 | 2.02 | 1.79 | 1.37 | 1.11 | 2.02 | -0.02 | -1.0% |
| SC-149.01 | 10 min | 4354 | 0.68 | 0.68 | 0.05 | 0.69 | 0.69 | 0.72 | 0.67 | 0.53 | 0.42 | 0.72 | 0.03 | 4.3% |
| SC-149.02 | 10 min | 4364 | 2.28 | 2.21 | 0.22 | 2.24 | 2.13 | 2.03 | 2.02 | 1.58 | 1.27 | 2.13 | -0.12 | -5.1% |
| SC-15.01 | 10 min | 4363 | 1.34 | 1.36 | 0.11 | 1.38 | 1.44 | 1.51 | 1.33 | 0.82 | 0.68 | 1.51 | 0.13 | 9.2% |
| SC-15.02 | 10 min | 4363 | 1.75 | 1.78 | 0.14 | 1.80 | 1.88 | 1.97 | 1.74 | 1.11 | 0.92 | 1.97 | 0.17 | 9.2% |
| SC-15.03 | 10 min | 4365 | 2.80 | 2.84 | 0.21 | 2.86 | 2.94 | 3.08 | 2.73 | 1.78 | 1.48 | 3.08 | 0.22 | 7.7% |
| SC-150.01 | 10 min | 4363 | 0.80 | 0.81 | 0.07 | 0.82 | 0.86 | 0.90 | 0.80 | 0.48 | 0.40 | 0.90 | 0.08 | 9.3% |
| SC-150.02 | 10 min | 4365 | 1.57 | 1.60 | 0.12 | 1.61 | 1.65 | 1.73 | 1.53 | 0.99 | 0.83 | 1.73 | 0.12 | 7.5% |
| SC-150.03 | 10 min | 4361 | 4.01 | 4.04 | 0.29 | 4.08 | 4.12 | 4.31 | 3.82 | 2.56 | 2.13 | 4.31 | 0.23 | 5.6% |
| SC-150.04 | 10 min | 4361 | 5.19 | 5.24 | 0.35 | 5.24 | 5.39 | 5.58 | 4.97 | 3.36 | 2.82 | 5.58 | 0.34 | 6.5% |
| SC-150.05 | 10 min | 4361 | 7.22 | 7.27 | 0.45 | 7.29 | 7.40 | 7.60 | 6.77 | 4.75 | 3.98 | 7.60 | 0.31 | 4.3% |
| SC-150.06 | 10 min | 4354 | 13.32 | 13.28 | 0.66 | 13.41 | 13.41 | 13.38 | 12.18 | 8.98 | 7.59 | 13.41 | 0.00 | 0.0% |
| SC-150.07 | 10 min | 4354 | 21.02 | 20.56 | 1.26 | 20.80 | 20.80 | 21.61 | 19.22 | 14.31 | 12.02 | 21.61 | 0.81 | 3.9% |
| SC-150.08 | 45 min | 4531 | 13.64 | 13.74 | 2.57 | 13.74 | 0.38 | 2.59 | 6.80 | 16.33 | 8.12 | 16.33 | 2.59 | 18.9% |
| SC-150.09 | 45 min | 4528 | 14.36 | 14.53 | 2.56 | 14.61 | 3.22 | 3.36 | 6.91 | 17.03 | 8.61 | 17.03 | 2.42 | 16.6% |
| SC-150.10 | 45 min | 4528 | 17.46 | 17.66 | 2.85 | 18.12 | 8.34 | 8.06 | 9.52 | 20.26 | 10.28 | 20.26 | 2.14 | 11.8% |
| SC-150.11 | 1 hour | 4360 | 23.16 | 22.46 | 3.19 | 22.59 | 22.75 | 21.78 | 20.28 | 26.22 | 13.99 | 26.22 | 3.63 | 16.1% |
| SC-150.12 | 10 min | 4354 | 35.76 | 35.79 | 1.17 | 35.98 | 35.98 | 34.53 | 32.05 | 34.01 | 22.19 | 35.98 | 0.00 | 0.0% |
| SC-150.13 | 15 min | 4392 | 40.82 | 40.72 | 1.68 | 40.85 | 41.09 | 40.87 | 36.88 | 36.04 | 26.83 | 41.09 | 0.24 | 0.6% |
| SC-150.14 | 15 min | 4407 | 61.89 | 61.39 | 1.83 | 61.74 | 58.71 | 63.46 | 53.53 | 50.48 | 44.46 | 63.46 | 1.72 | 2.8% |
| SC-150.15 | 15 min | 4407 | 62.59 | 62.02 | 1.81 | 62.14 | 59.23 | 64.26 | 54.80 | 50.94 | 45.33 | 64.26 | 2.12 | 3.4% |
| SC-150.16 | 15 min | 4397 | 65.18 | 65.09 | 1.93 | 65.18 | 61.08 | 67.33 | 59.04 | 52.55 | 48.27 | 67.33 | 2.15 | 3.3% |
| SC-150.17 | 15 min | 4398 | 65.99 | 66.05 | 2.11 | 66.06 | 61.67 | 68.65 | 61.83 | 53.02 | 49.75 | 68.65 | 2.59 | 3.9% |
| SC-151.01 | 10 min | 4363 | 1.06 | 1.08 | 0.09 | 1.11 | 1.16 | 1.21 | 1.07 | 0.64 | 0.53 | 1.21 | 0.10 | 8.8% |
| SC-151.02 | 10 min | 4365 | 1.66 | 1.68 | 0.13 | 1.69 | 1.74 | 1.82 | 1.62 | 1.03 | 0.86 | 1.82 | 0.13 | 7.6% |
| SC-152.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.98 | 1.02 | 1.07 | 0.95 | 0.59 | 0.49 | 1.07 | 0.09 | 9.2% |
| SC-153.01 | 10 min | 4363 | 0.76 | 0.77 | 0.06 | 0.78 | 0.81 | 0.85 | 0.76 | 0.49 | 0.39 | 0.85 | 0.07 | 8.8% |
| SC-153.02 | 10 min | 4361 | 1.83 | 1.85 | 0.14 | 1.85 | 1.90 | 1.99 | 1.76 | 1.20 | 0.97 | 1.99 | 0.14 | 7.4% |
| SC-154.01 | 10 min | 4368 | 1.44 | 1.46 | 0.11 | 1.47 | 1.52 | 1.59 | 1.41 | 0.94 | 0.77 | 1.59 | 0.12 | 8.2% |
| SC-154.02 | 10 min | 4354 | 4.82 | 4.79 | 0.31 | 4.84 | 4.84 | 5.06 | 4.49 | 3.27 | 2.70 | 5.06 | 0.22 | 4.5% |
| SC-155.01 | 10 min | 4364 | 0.55 | 0.53 | 0.05 | 0.53 | 0.52 | 0.55 | 0.49 | 0.35 | 0.29 | 0.55 | 0.02 | 2.9% |
| SC-155.02 | 10 min | 4354 | 1.54 | 1.51 | 0.10 | 1.53 | 1.53 | 1.60 | 1.42 | 1.00 | 0.83 | 1.60 | 0.07 | 4.6% |
| SC-156.01 | 10 min | 4363 | 0.58 | 0.60 | 0.05 | 0.60 | 0.63 | 0.66 | 0.58 | 0.37 | 0.30 | 0.66 | 0.06 | 9.3% |
| SC-157.01 | 10 min | 4365 | 0.68 | 0.69 | 0.05 | 0.69 | 0.72 | 0.75 | 0.66 | 0.44 | 0.36 | 0.75 | 0.06 | 8.7% |
| SC-158.01 | 10 min | 4363 | 0.91 | 0.92 | 0.08 | 0.94 | 0.98 | 1.02 | 0.91 | 0.55 | 0.46 | 1.02 | 0.08 | 8.8% |
| SC-158.02 | 10 min | 4365 | 1.18 | 1.19 | 0.09 | 1.20 | 1.24 | 1.29 | 1.15 | 0.73 | 0.61 | 1.29 | 0.09 | 7.8% |
| SC-158.03 | 10 min | 4354 | 2.56 | 2.57 | 0.18 | 2.61 | 2.61 | 2.72 | 2.42 | 1.64 | 1.37 | 2.72 | 0.11 | 4.4% |
| SC-158.04 | 10 min | 4361 | 4.78 | 4.83 | 0.36 | 4.84 | 4.96 | 5.19 | 4.60 | 3.07 | 2.55 | 5.19 | 0.35 | 7.3% |
| SC-159.01 | 10 min | 4363 | 0.72 | 0.73 | 0.06 | 0.74 | 0.77 | 0.81 | 0.72 | 0.44 | 0.36 | 0.81 | 0.07 | 9.2% |
| SC-16.01 | 10 min | 4363 | 0.86 | 0.88 | 0.07 | 0.89 | 0.93 | 0.97 | 0.86 | 0.52 | 0.43 | 0.97 | 0.08 | 9.3% |
| SC-160.01 | 10 min | 4363 | 0.70 | 0.71 | 0.06 | 0.72 | 0.75 | 0.78 | 0.70 | 0.42 | 0.35 | 0.78 | 0.06 | 8.6% |
| SC-160.02 | 10 min | 4365 | 1.59 | 1.61 | 0.11 | 1.61 | 1.66 | 1.74 | 1.54 | 1.00 | 0.84 | 1.74 | 0.13 | 8.0% |
| SC-161.01 | 10 min | 4363 | 0.85 | 0.86 | 0.07 | 0.88 | 0.92 | 0.96 | 0.85 | 0.51 | 0.42 | 0.96 | 0.08 | 9.0% |
| SC-161.02 | 10 min | 4365 | 1.63 | 1.65 | 0.12 | 1.66 | 1.70 | 1.78 | 1.58 | 1.02 | 0.85 | 1.78 | 0.12 | 7.2% |
| SC-162.01 | 10 min | 4363 | 1.01 | 1.03 | 0.08 | 1.03 | 1.08 | 1.13 | 1.00 | 0.63 | 0.52 | 1.13 | 0.10 | 9.7% |
| SC-163.01 | 10 min | 4364 | 0.60 | 0.59 | 0.06 | 0.60 | 0.55 | 0.58 | 0.52 | 0.41 | 0.34 | 0.58 | -0.02 | -3.8% |
| SC-163.02 | 10 min | 4364 | 1.15 | 1.12 | 0.10 | 1.12 | 1.11 | 1.16 | 1.02 | 0.77 | 0.64 | 1.16 | 0.04 | 3.7% |
| SC-163.03 | 10 min | 4354 | 1.86 | 1.80 | 0.14 | 1.81 | 1.81 | 1.90 | 1.68 | 1.24 | 1.03 | 1.90 | 0.09 | 4.9% |
| SC-163.04 | 10 min | 4354 | 2.56 | 2.53 | 0.17 | 2.57 | 2.57 | 2.69 | 2.38 | 1.70 | 1.42 | 2.69 | 0.12 | 4.6% |
| SC-163.05 | 10 min | 4354 | 4.41 | 4.38 | 0.29 | 4.44 | 4.44 | 4.65 | 4.12 | 2.95 | 2.47 | 4.65 | 0.21 | 4.7% |
| SC-164.01 | 10 min | 4368 | 0.87 | 0.89 | 0.07 | 0.89 | 0.92 | 0.97 | 0.85 | 0.56 | 0.45 | 0.97 | 0.08 | 8.8% |
| SC-165.01 | 10 min | 4363 | 0.75 | 0.76 | 0.06 | 0.76 | 0.80 | 0.84 | 0.74 | 0.47 | 0.39 | 0.84 | 0.08 | 9.9% |
| SC-165.02 | 10 min | 4363 | 1.92 | 1.96 | 0.16 | 1.97 | 2.05 | 2.15 | 1.90 | 1.23 | 1.01 | 2.15 | 0.18 | 9.0% |
| SC-165.03 | 10 min | 4365 | 2.50 | 2.54 | 0.20 | 2.56 | 2.63 | 2.76 | 2.44 | 1.63 | 1.33 | 2.76 | 0.20 | 7.7% |
| SC-165.04 | 10 min | 4361 | 5.41 | 5.46 | 0.33 | 5.47 | 5.57 | 5.72 | 5.11 | 3.57 | 2.97 | 5.72 | 0.25 | 4.6% |
| SC-165.05 | 10 min | 4361 | 9.08 | 9.12 | 0.53 | 9.19 | 9.24 | 9.41 | 8.43 | 6.14 | 5.07 | 9.41 | 0.22 | 2.4% |
| SC-166.01 | 10 min | 4368 | 0.67 | 0.69 | 0.06 | 0.69 | 0.71 | 0.75 | 0.66 | 0.43 | 0.35 | 0.75 | 0.06 | 8.5% |
| SC-167.01 | 10 min | 4363 | 1.00 | 1.02 | 0.08 | 1.03 | 1.08 | 1.12 | 1.00 | 0.61 | 0.50 | 1.12 | 0.09 | 9.1% |
| SC-167.02 | 10 min | 4361 | 2.58 | 2.61 | 0.19 | 2.61 | 2.68 | 2.80 | 2.49 | 1.60 | 1.33 | 2.80 | 0.19 | 7.4% |
| SC-168.01 | 10 min | 4363 | 0.82 | 0.84 | 0.07 | 0.85 | 0.89 | 0.93 | 0.82 | 0.50 | 0.42 | 0.93 | 0.08 | 9.2% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-169.01 | 10 min | 4365 | 0.75 | 0.76 | 0.06 | 0.76 | 0.79 | 0.83 | 0.73 | 0.48 | 0.39 | 0.83 | 0.07 | 8.6% |
| SC-169.02 | 10 min | 4361 | 1.41 | 1.42 | 0.10 | 1.42 | 1.46 | 1.52 | 1.35 | 0.94 | 0.76 | 1.52 | 0.10 | 7.3% |
| SC-169.03 | 10 min | 4365 | 3.11 | 3.17 | 0.24 | 3.19 | 3.28 | 3.43 | 3.04 | 2.06 | 1.66 | 3.43 | 0.24 | 7.5% |
| SC-17.01 | 10 min | 4363 | 0.75 | 0.77 | 0.06 | 0.78 | 0.82 | 0.85 | 0.76 | 0.45 | 0.38 | 0.85 | 0.07 | 9.3% |
| SC-17.02 | 10 min | 4361 | 1.32 | 1.34 | 0.10 | 1.34 | 1.37 | 1.43 | 1.27 | 0.83 | 0.69 | 1.43 | 0.09 | 6.9% |
| SC-17.03 | 10 min | 4361 | 2.23 | 2.25 | 0.16 | 2.26 | 2.31 | 2.41 | 2.14 | 1.40 | 1.17 | 2.41 | 0.15 | 6.7% |
| SC-17.04 | 10 min | 4354 | 5.36 | 5.29 | 0.40 | 5.37 | 5.37 | 5.63 | 4.97 | 3.42 | 2.82 | 5.63 | 0.26 | 4.9% |
| SC-17.05 | 10 min | 4354 | 7.42 | 7.29 | 0.49 | 7.38 | 7.38 | 7.53 | 6.74 | 4.83 | 3.98 | 7.53 | 0.15 | 2.0% |
| SC-17.06 | 10 min | 4354 | 8.38 | 8.22 | 0.48 | 8.30 | 8.30 | 8.50 | 7.57 | 5.58 | 4.60 | 8.50 | 0.20 | 2.5% |
| SC-17.07 | 10 min | 4354 | 8.92 | 8.86 | 0.40 | 8.93 | 8.93 | 8.91 | 8.03 | 6.09 | 5.02 | 8.93 | 0.00 | 0.0% |
| SC-170.01 | 10 min | 4363 | 0.68 | 0.70 | 0.06 | 0.70 | 0.73 | 0.77 | 0.68 | 0.42 | 0.35 | 0.77 | 0.07 | 9.9% |
| SC-171.01 | 10 min | 4363 | 0.48 | 0.48 | 0.04 | 0.50 | 0.53 | 0.55 | 0.49 | 0.29 | 0.23 | 0.55 | 0.05 | 9.9% |
| SC-172.01 | 10 min | 4363 | 0.96 | 0.97 | 0.08 | 1.00 | 1.04 | 1.09 | 0.97 | 0.58 | 0.47 | 1.09 | 0.09 | 8.5% |
| SC-172.02 | 10 min | 4368 | 1.64 | 1.68 | 0.13 | 1.68 | 1.73 | 1.81 | 1.61 | 1.01 | 0.83 | 1.81 | 0.13 | 7.7% |
| SC-173.01 | 20 min | 4429 | 1.17 | 1.15 | 0.09 | 1.15 | 0.77 | 0.97 | 1.15 | 1.04 | 0.91 | 1.15 | 0.00 | -0.2% |
| SC-173.02 | 20 min | 4433 | 2.33 | 2.25 | 0.25 | 2.28 | 1.81 | 1.91 | 2.32 | 1.97 | 1.64 | 2.32 | 0.04 | 1.6% |
| SC-173.03 | 20 min | 4371 | 2.35 | 2.31 | 0.24 | 2.33 | 2.00 | 2.04 | 2.33 | 2.10 | 1.70 | 2.33 | 0.00 | 0.0% |
| SC-173.04 | 20 min | 4371 | 3.77 | 3.69 | 0.49 | 3.77 | 3.76 | 3.94 | 3.77 | 3.17 | 2.55 | 3.94 | 0.17 | 4.4% |
| SC-173.05 | 10 min | 4363 | 4.31 | 4.34 | 0.18 | 4.38 | 4.50 | 4.48 | 4.08 | 3.68 | 2.96 | 4.50 | 0.12 | 2.8% |
| SC-174.01 | 10 min | 4363 | 0.61 | 0.62 | 0.05 | 0.64 | 0.67 | 0.70 | 0.62 | 0.37 | 0.30 | 0.70 | 0.06 | 9.3% |
| SC-175.01 | 10 min | 4363 | 1.08 | 1.10 | 0.09 | 1.11 | 1.16 | 1.21 | 1.08 | 0.65 | 0.54 | 1.21 | 0.10 | 9.3% |
| SC-175.02 | 10 min | 4365 | 2.23 | 2.26 | 0.18 | 2.28 | 2.35 | 2.46 | 2.17 | 1.39 | 1.16 | 2.46 | 0.18 | 7.7% |
| SC-175.03 | 10 min | 4365 | 3.61 | 3.65 | 0.28 | 3.65 | 3.77 | 3.94 | 3.49 | 2.28 | 1.90 | 3.94 | 0.29 | 8.0% |
| SC-175.04 | 10 min | 4365 | 4.41 | 4.47 | 0.33 | 4.49 | 4.62 | 4.78 | 4.26 | 2.91 | 2.44 | 4.78 | 0.29 | 6.5% |
| SC-175.05 | 10 min | 4365 | 4.98 | 5.03 | 0.24 | 5.05 | 5.15 | 5.16 | 4.68 | 3.31 | 2.83 | 5.16 | 0.11 | 2.1% |
| SC-176.01 | 10 min | 4364 | 0.48 | 0.47 | 0.04 | 0.47 | 0.46 | 0.48 | 0.45 | 0.35 | 0.29 | 0.48 | 0.01 | 2.9% |
| SC-177.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.65 | 0.67 | 0.60 | 0.37 | 0.30 | 0.67 | 0.05 | 8.7% |
| SC-177.02 | 10 min | 4354 | 1.63 | 1.62 | 0.12 | 1.65 | 1.65 | 1.73 | 1.52 | 1.04 | 0.84 | 1.73 | 0.08 | 4.5% |
| SC-177.03 | 10 min | 4354 | 4.42 | 4.43 | 0.31 | 4.50 | 4.50 | 4.71 | 4.17 | 2.85 | 2.37 | 4.71 | 0.21 | 4.6% |
| SC-177.04 | 10 min | 4361 | 6.08 | 6.12 | 0.43 | 6.19 | 6.23 | 6.52 | 5.77 | 3.90 | 3.26 | 6.52 | 0.33 | 5.4% |
| SC-178.01 | 10 min | 4363 | 1.32 | 1.35 | 0.11 | 1.37 | 1.42 | 1.49 | 1.32 | 0.81 | 0.68 | 1.49 | 0.12 | 8.8% |
| SC-178.02 | 10 min | 4361 | 2.02 | 2.03 | 0.14 | 2.04 | 2.08 | 2.18 | 1.93 | 1.28 | 1.06 | 2.18 | 0.14 | 6.8% |
| SC-179.01 | 10 min | 4363 | 1.07 | 1.09 | 0.09 | 1.11 | 1.16 | 1.21 | 1.08 | 0.65 | 0.54 | 1.21 | 0.10 | 9.1% |
| SC-18.01 | 10 min | 4368 | 0.84 | 0.86 | 0.07 | 0.86 | 0.89 | 0.93 | 0.83 | 0.51 | 0.42 | 0.93 | 0.07 | 7.8% |
| SC-18.02 | 10 min | 4354 | 1.35 | 1.33 | 0.10 | 1.35 | 1.35 | 1.42 | 1.25 | 0.86 | 0.70 | 1.42 | 0.07 | 5.3% |
| SC-180.01 | 10 min | 4363 | 1.05 | 1.07 | 0.09 | 1.08 | 1.13 | 1.18 | 1.04 | 0.64 | 0.53 | 1.18 | 0.10 | 9.2% |
| SC-180.02 | 10 min | 4361 | 1.81 | 1.82 | 0.12 | 1.83 | 1.86 | 1.95 | 1.73 | 1.19 | 0.98 | 1.95 | 0.12 | 6.4% |
| SC-180.03 | 10 min | 4361 | 2.54 | 2.56 | 0.18 | 2.57 | 2.63 | 2.75 | 2.44 | 1.67 | 1.38 | 2.75 | 0.18 | 7.0% |
| SC-180.04 | 10 min | 4361 | 3.66 | 3.69 | 0.28 | 3.70 | 3.80 | 3.98 | 3.52 | 2.39 | 1.98 | 3.98 | 0.28 | 7.5% |
| SC-181.01 | 20 min | 4371 | 0.49 | 0.47 | 0.07 | 0.47 | 0.42 | 0.44 | 0.47 | 0.37 | 0.31 | 0.47 | 0.00 | -0.7% |
| SC-181.02 | 10 min | 4354 | 1.54 | 1.51 | 0.11 | 1.53 | 1.53 | 1.61 | 1.42 | 1.06 | 0.87 | 1.61 | 0.08 | 5.0% |
| SC-181.03 | 10 min | 4361 | 2.49 | 2.51 | 0.18 | 2.52 | 2.58 | 2.70 | 2.39 | 1.69 | 1.40 | 2.70 | 0.18 | 6.9% |
| SC-181.04 | 10 min | 4354 | 4.60 | 4.61 | 0.30 | 4.67 | 4.67 | 4.85 | 4.31 | 3.27 | 2.70 | 4.85 | 0.18 | 3.9% |
| SC-181.05 | 10 min | 4368 | 5.02 | 5.02 | 0.17 | 5.02 | 5.17 | 5.19 | 4.69 | 3.61 | 3.05 | 5.19 | 0.17 | 3.4% |
| SC-181.06 | 10 min | 4363 | 5.53 | 5.55 | 0.16 | 5.59 | 5.72 | 5.60 | 5.14 | 3.98 | 3.41 | 5.72 | 0.13 | 2.3% |
| SC-181.07 | 10 min | 4354 | 12.40 | 12.26 | 0.39 | 12.31 | 12.31 | 11.86 | 10.98 | 8.61 | 7.48 | 12.31 | 0.00 | 0.0% |
| SC-181.08 | 10 min | 4354 | 12.80 | 12.74 | 0.31 | 12.78 | 12.78 | 12.20 | 11.36 | 8.98 | 7.79 | 12.78 | 0.00 | 0.0% |
| SC-182.01 | 10 min | 4363 | 0.74 | 0.75 | 0.06 | 0.76 | 0.79 | 0.82 | 0.73 | 0.46 | 0.38 | 0.82 | 0.06 | 8.5% |
| SC-182.02 | 10 min | 4354 | 1.21 | 1.21 | 0.08 | 1.23 | 1.23 | 1.28 | 1.14 | 0.78 | 0.65 | 1.28 | 0.05 | 4.4% |
| SC-182.03 | 10 min | 4357 | 1.97 | 1.92 | 0.14 | 1.92 | 1.92 | 2.01 | 1.85 | 1.43 | 1.18 | 2.01 | 0.09 | 4.5% |
| SC-183.01 | 10 min | 4354 | 0.73 | 0.71 | 0.05 | 0.72 | 0.72 | 0.76 | 0.67 | 0.51 | 0.42 | 0.76 | 0.04 | 4.9% |
| SC-183.02 | 10 min | 4361 | 1.62 | 1.63 | 0.10 | 1.66 | 1.66 | 1.74 | 1.54 | 1.09 | 0.90 | 1.74 | 0.08 | 4.8% |
| SC-183.03 | 10 min | 4361 | 4.02 | 4.05 | 0.24 | 4.09 | 4.09 | 4.16 | 3.74 | 2.70 | 2.28 | 4.16 | 0.07 | 1.6% |
| SC-183.04 | 10 min | 4365 | 4.61 | 4.64 | 0.22 | 4.65 | 4.73 | 4.63 | 4.25 | 3.12 | 2.69 | 4.73 | 0.08 | 1.6% |
| SC-184.01 | 10 min | 4368 | 1.72 | 1.76 | 0.14 | 1.76 | 1.83 | 1.91 | 1.69 | 1.10 | 0.91 | 1.91 | 0.15 | 8.8% |
| SC-185.01 | 10 min | 4363 | 1.01 | 1.03 | 0.09 | 1.04 | 1.09 | 1.14 | 1.01 | 0.61 | 0.51 | 1.14 | 0.10 | 9.4% |
| SC-185.02 | 10 min | 4365 | 2.27 | 2.30 | 0.18 | 2.32 | 2.39 | 2.50 | 2.21 | 1.42 | 1.18 | 2.50 | 0.18 | 7.7% |
| SC-186.01 | 10 min | 4363 | 0.35 | 0.36 | 0.03 | 0.36 | 0.38 | 0.39 | 0.35 | 0.23 | 0.18 | 0.39 | 0.03 | 9.6% |
| SC-187.01 | 10 min | 4363 | 1.02 | 1.04 | 0.09 | 1.05 | 1.09 | 1.14 | 1.02 | 0.62 | 0.51 | 1.14 | 0.09 | 8.9% |
| SC-187.02 | 10 min | 4365 | 2.01 | 2.03 | 0.15 | 2.05 | 2.11 | 2.21 | 1.95 | 1.26 | 1.05 | 2.21 | 0.16 | 7.6% |
| SC-187.03 | 10 min | 4363 | 2.34 | 2.36 | 0.16 | 2.40 | 2.48 | 2.54 | 2.28 | 1.52 | 1.28 | 2.54 | 0.14 | 6.0% |
| SC-187.04 | 10 min | 4366 | 3.02 | 2.98 | 0.11 | 3.01 | 3.16 | 3.05 | 2.83 | 2.05 | 1.73 | 3.16 | 0.15 | 5.1% |
| SC-187.05 | 10 min | 4356 | 3.57 | 3.57 | 0.09 | 3.58 | 3.68 | 3.41 | 3.24 | 2.46 | 2.06 | 3.68 | 0.09 | 2.7% |
| SC-188.01 | 10 min | 4363 | 1.07 | 1.09 | 0.09 | 1.10 | 1.15 | 1.20 | 1.07 | 0.65 | 0.54 | 1.20 | 0.10 | 9.3% |
| SC-188.02 | 10 min | 4361 | 1.61 | 1.62 | 0.12 | 1.63 | 1.66 | 1.73 | 1.54 | 1.00 | 0.83 | 1.73 | 0.10 | 6.1% |
| SC-189.01 | 10 min | 4363 | 1.21 | 1.24 | 0.10 | 1.26 | 1.31 | 1.37 | 1.22 | 0.73 | 0.61 | 1.37 | 0.11 | 8.7% |
| SC-189.02 | 10 min | 4363 | 2.17 | 2.21 | 0.18 | 2.22 | 2.31 | 2.42 | 2.15 | 1.38 | 1.14 | 2.42 | 0.20 | 8.8% |
| SC-19.01 | 10 min | 4357 | 0.52 | 0.50 | 0.05 | 0.50 | 0.50 | 0.52 | 0.46 | 0.34 | 0.27 | 0.52 | 0.02 | 4.4% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-190.01 | 10 min | 4363 | 0.53 | 0.54 | 0.05 | 0.54 | 0.57 | 0.59 | 0.53 | 0.33 | 0.26 | 0.59 | 0.05 | 9.6% |
| SC-191.01 | 10 min | 4363 | 0.97 | 0.99 | 0.08 | 1.00 | 1.05 | 1.09 | 0.97 | 0.59 | 0.49 | 1.09 | 0.09 | 9.3% |
| SC-191.02 | 10 min | 4361 | 1.42 | 1.44 | 0.10 | 1.44 | 1.48 | 1.54 | 1.37 | 0.88 | 0.73 | 1.54 | 0.10 | 7.0% |
| SC-191.03 | 10 min | 4361 | 2.64 | 2.66 | 0.18 | 2.69 | 2.71 | 2.83 | 2.51 | 1.68 | 1.40 | 2.83 | 0.14 | 5.4% |
| SC-191.04 | 10 min | 4361 | 3.86 | 3.89 | 0.28 | 3.92 | 3.98 | 4.16 | 3.69 | 2.46 | 2.05 | 4.16 | 0.24 | 6.1% |
| SC-191.05 | 10 min | 4354 | 5.36 | 5.38 | 0.34 | 5.44 | 5.44 | 5.51 | 4.98 | 3.48 | 2.94 | 5.51 | 0.07 | 1.2% |
| SC-191.06 | 10 min | 4354 | 9.21 | 9.19 | 0.55 | 9.31 | 9.31 | 9.61 | 8.59 | 6.52 | 5.35 | 9.61 | 0.30 | 3.2% |
| SC-191.07 | 10 min | 4354 | 11.22 | 11.02 | 0.63 | 11.13 | 11.13 | 11.46 | 10.16 | 8.05 | 6.70 | 11.46 | 0.33 | 2.9% |
| SC-191.08 | 10 min | 4363 | 12.12 | 12.24 | 0.60 | 12.24 | 12.51 | 12.46 | 11.21 | 9.15 | 7.71 | 12.51 | 0.27 | 2.2% |
| SC-192.01 | 10 min | 4365 | 3.11 | 3.17 | 0.25 | 3.19 | 3.30 | 3.46 | 3.04 | 2.02 | 1.65 | 3.46 | 0.27 | 8.3% |
| SC-193.01 | 10 min | 4365 | 1.43 | 1.44 | 0.10 | 1.45 | 1.49 | 1.56 | 1.38 | 0.95 | 0.78 | 1.56 | 0.11 | 7.5% |
| SC-194.01 | 10 min | 4357 | 1.48 | 1.45 | 0.11 | 1.45 | 1.44 | 1.50 | 1.39 | 1.08 | 0.89 | 1.50 | 0.05 | 3.5% |
| SC-194.02 | 20 min | 4429 | 6.19 | 6.12 | 0.56 | 6.15 | 4.41 | 5.26 | 5.93 | 5.11 | 4.54 | 5.93 | -0.22 | -3.6% |
| SC-194.03 | 20 min | 4433 | 6.50 | 6.37 | 0.47 | 6.39 | 4.99 | 5.43 | 6.13 | 5.87 | 5.14 | 6.13 | -0.26 | -4.1% |
| SC-195.01 | 20 min | 4433 | 2.15 | 2.14 | 0.18 | 2.15 | 1.49 | 1.85 | 2.00 | 1.71 | 1.56 | 2.00 | -0.15 | -7.2% |
| SC-196.01 | 10 min | 4354 | 4.71 | 4.73 | 0.31 | 4.80 | 4.80 | 5.03 | 4.44 | 3.40 | 2.75 | 5.03 | 0.23 | 4.7% |
| SC-197.01 | 10 min | 4364 | 3.16 | 3.08 | 0.25 | 3.11 | 3.00 | 3.14 | 2.87 | 2.25 | 1.88 | 3.14 | 0.03 | 1.0% |
| SC-198.01 | 15 min | 4401 | 3.11 | 2.96 | 0.40 | 3.00 | 2.66 | 2.66 | 2.61 | 2.37 | 2.08 | 2.66 | -0.34 | -11.3% |
| SC-2.01 | 10 min | 4364 | 0.68 | 0.66 | 0.06 | 0.67 | 0.65 | 0.67 | 0.60 | 0.47 | 0.39 | 0.67 | 0.00 | 0.6% |
| SC-20.01 | 10 min | 4363 | 0.66 | 0.67 | 0.05 | 0.67 | 0.70 | 0.73 | 0.65 | 0.40 | 0.33 | 0.73 | 0.06 | 9.3% |
| SC-200.01 | 10 min | 4365 | 0.96 | 0.98 | 0.08 | 0.99 | 1.02 | 1.07 | 0.94 | 0.62 | 0.50 | 1.07 | 0.08 | 7.7% |
| SC-200.02 | 10 min | 4363 | 1.69 | 1.72 | 0.13 | 1.72 | 1.80 | 1.88 | 1.66 | 1.14 | 0.90 | 1.88 | 0.16 | 9.2% |
| SC-200.03 | 10 min | 4361 | 3.17 | 3.19 | 0.22 | 3.24 | 3.24 | 3.39 | 3.01 | 2.20 | 1.75 | 3.39 | 0.15 | 4.7% |
| SC-200.04 | 10 min | 4354 | 4.74 | 4.66 | 0.35 | 4.73 | 4.73 | 4.97 | 4.37 | 3.27 | 2.62 | 4.97 | 0.23 | 5.0% |
| SC-200.05 | 10 min | 4354 | 7.64 | 7.64 | 0.46 | 7.75 | 7.75 | 8.01 | 7.11 | 5.13 | 4.20 | 8.01 | 0.26 | 3.4% |
| SC-200.06 | 10 min | 4364 | 12.05 | 11.84 | 0.86 | 11.93 | 11.46 | 11.44 | 10.18 | 8.42 | 7.00 | 11.46 | -0.47 | -3.9% |
| SC-200.07 | 10 min | 4364 | 14.13 | 13.92 | 0.98 | 14.02 | 13.41 | 13.07 | 11.77 | 10.02 | 8.42 | 13.41 | -0.61 | -4.4% |
| SC-200.08 | 10 min | 4364 | 16.17 | 15.81 | 0.85 | 15.87 | 15.69 | 15.01 | 13.64 | 11.62 | 9.87 | 15.69 | -0.18 | -1.2% |
| SC-200.09 | 10 min | 4368 | 23.71 | 23.63 | 0.23 | 23.64 | 23.62 | 21.34 | 20.11 | 17.74 | 14.92 | 23.62 | -0.02 | -0.1% |
| SC-201.01 | 10 min | 4363 | 1.20 | 1.22 | 0.11 | 1.25 | 1.30 | 1.36 | 1.21 | 0.72 | 0.60 | 1.36 | 0.11 | 9.0% |
| SC-202.01 | 10 min | 4363 | 1.22 | 1.24 | 0.11 | 1.28 | 1.34 | 1.40 | 1.24 | 0.73 | 0.59 | 1.40 | 0.12 | 9.5% |
| SC-203.01 | 10 min | 4365 | 1.24 | 1.26 | 0.09 | 1.27 | 1.31 | 1.37 | 1.22 | 0.76 | 0.64 | 1.37 | 0.10 | 7.7% |
| SC-204.01 | 10 min | 4364 | 1.68 | 1.67 | 0.19 | 1.69 | 1.53 | 1.60 | 1.44 | 1.12 | 0.93 | 1.60 | -0.09 | -5.5% |
| SC-205.01 | 20 min | 4429 | 0.71 | 0.68 | 0.09 | 0.68 | 0.61 | 0.60 | 0.65 | 0.53 | 0.47 | 0.65 | -0.03 | -5.0% |
| SC-206.01 | 10 min | 4364 | 5.48 | 5.56 | 0.57 | 5.60 | 4.84 | 3.92 | 4.52 | 3.77 | 3.11 | 4.84 | -0.76 | -13.6% |
| SC-207.01 | 10 min | 4363 | 1.17 | 1.19 | 0.10 | 1.20 | 1.26 | 1.32 | 1.16 | 0.72 | 0.59 | 1.32 | 0.12 | 9.8% |
| SC-207.02 | 10 min | 4361 | 2.29 | 2.31 | 0.17 | 2.32 | 2.37 | 2.48 | 2.19 | 1.46 | 1.21 | 2.48 | 0.16 | 6.9% |
| SC-207.03 | 10 min | 4361 | 2.56 | 2.58 | 0.19 | 2.61 | 2.63 | 2.76 | 2.42 | 1.68 | 1.40 | 2.76 | 0.15 | 5.6% |
| SC-207.04 | 10 min | 4354 | 7.08 | 7.00 | 0.31 | 7.05 | 7.05 | 7.12 | 6.43 | 4.77 | 4.05 | 7.12 | 0.07 | 1.0% |
| SC-207.05 | 10 min | 4357 | 9.47 | 9.32 | 0.36 | 9.32 | 9.31 | 9.25 | 8.32 | 6.48 | 5.50 | 9.31 | -0.01 | -0.1% |
| SC-207.06 | 10 min | 4364 | 10.25 | 10.21 | 0.23 | 10.23 | 10.10 | 9.81 | 8.96 | 7.12 | 6.03 | 10.10 | -0.13 | -1.3% |
| SC-207.07 | 10 min | 4364 | 17.21 | 17.25 | 0.94 | 17.33 | 16.27 | 14.87 | 13.96 | 12.63 | 10.88 | 16.27 | -1.06 | -6.1% |
| SC-207.08 | 10 min | 4364 | 25.94 | 25.61 | 0.79 | 25.66 | 25.50 | 23.88 | 22.34 | 18.92 | 16.32 | 25.50 | -0.16 | -0.6% |
| SC-207.09 | 10 min | 4354 | 29.65 | 29.44 | 0.66 | 29.47 | 29.47 | 27.35 | 25.64 | 22.03 | 19.09 | 29.47 | 0.00 | 0.0% |
| SC-207.10 | 15 min | 4401 | 30.37 | 30.35 | 1.54 | 30.45 | 30.11 | 28.53 | 26.50 | 23.01 | 19.99 | 30.11 | -0.34 | -1.1% |
| SC-207.11 | 15 min | 4393 | 32.73 | 32.92 | 1.12 | 32.94 | 32.08 | 31.08 | 28.34 | 25.03 | 21.94 | 32.08 | -0.86 | -2.6% |
| SC-207.12 | 15 min | 4358 | 47.11 | 47.07 | 2.34 | 47.59 | 46.73 | 44.35 | 41.14 | 35.69 | 30.95 | 46.73 | -0.87 | -1.8% |
| SC-207.13 | 15 min | 4358 | 49.74 | 49.82 | 2.08 | 50.33 | 48.94 | 47.08 | 43.20 | 37.86 | 33.38 | 48.94 | -1.39 | -2.8% |
| SC-207.14 | 15 min | 4358 | 51.39 | 51.62 | 1.67 | 51.68 | 50.06 | 49.43 | 44.51 | 39.16 | 35.15 | 50.06 | -1.62 | -3.1% |
| SC-208.01 | 10 min | 4363 | 1.25 | 1.26 | 0.11 | 1.31 | 1.36 | 1.43 | 1.27 | 0.75 | 0.61 | 1.43 | 0.12 | 8.8% |
| SC-208.02 | 10 min | 4363 | 1.78 | 1.82 | 0.14 | 1.83 | 1.90 | 1.99 | 1.77 | 1.09 | 0.90 | 1.99 | 0.16 | 8.7% |
| SC-208.03 | 10 min | 4363 | 2.39 | 2.43 | 0.20 | 2.44 | 2.54 | 2.65 | 2.36 | 1.49 | 1.23 | 2.65 | 0.21 | 8.7% |
| SC-208.04 | 10 min | 4361 | 3.76 | 3.80 | 0.22 | 3.80 | 3.87 | 3.86 | 3.52 | 2.44 | 2.04 | 3.87 | 0.07 | 1.8% |
| SC-208.05 | 10 min | 4361 | 4.34 | 4.35 | 0.14 | 4.36 | 4.40 | 4.22 | 3.93 | 2.89 | 2.43 | 4.40 | 0.04 | 0.8% |
| SC-209.01 | 10 min | 4363 | 0.78 | 0.80 | 0.06 | 0.80 | 0.83 | 0.87 | 0.78 | 0.51 | 0.40 | 0.87 | 0.07 | 8.7% |
| SC-21.01 | 10 min | 4363 | 0.94 | 0.96 | 0.08 | 0.97 | 1.01 | 1.06 | 0.94 | 0.57 | 0.47 | 1.06 | 0.09 | 8.9% |
| SC-210.01 | 10 min | 4363 | 1.76 | 1.80 | 0.15 | 1.83 | 1.91 | 1.99 | 1.76 | 1.07 | 0.89 | 1.99 | 0.16 | 9.0% |
| SC-210.02 | 10 min | 4365 | 2.44 | 2.48 | 0.18 | 2.50 | 2.57 | 2.69 | 2.38 | 1.53 | 1.28 | 2.69 | 0.19 | 7.5% |
| SC-211.01 | 20 min | 4429 | 0.73 | 0.72 | 0.07 | 0.72 | 0.52 | 0.62 | 0.69 | 0.58 | 0.52 | 0.69 | -0.03 | -3.8% |
| SC-211.02 | 20 min | 4399 | 1.58 | 1.57 | 0.07 | 1.58 | 1.02 | 1.32 | 1.51 | 1.40 | 1.25 | 1.51 | -0.07 | -4.4% |
| SC-211.03 | 20 min | 4399 | 2.53 | 2.49 | 0.19 | 2.50 | 1.82 | 2.11 | 2.39 | 2.30 | 1.98 | 2.39 | -0.11 | -4.4% |
| SC-211.04 | 20 min | 4399 | 2.97 | 2.94 | 0.22 | 2.96 | 2.37 | 2.51 | 2.70 | 2.72 | 2.35 | 2.72 | -0.24 | -8.1% |
| SC-212.01 | 45 min | 4531 | 0.27 | 0.27 | 0.02 | 0.27 | 0.14 | 0.18 | 0.22 | 0.29 | 0.20 | 0.29 | 0.02 | 7.7% |
| SC-212.02 | 20 min | 4433 | 0.55 | 0.54 | 0.06 | 0.54 | 0.42 | 0.47 | 0.52 | 0.54 | 0.42 | 0.54 | 0.00 | -0.1% |
| SC-213.01 | 10 min | 4363 | 0.72 | 0.73 | 0.06 | 0.75 | 0.78 | 0.81 | 0.72 | 0.44 | 0.35 | 0.81 | 0.06 | 8.2% |
| SC-213.02 | 10 min | 4368 | 1.22 | 1.25 | 0.10 | 1.25 | 1.30 | 1.36 | 1.20 | 0.76 | 0.62 | 1.36 | 0.11 | 8.6% |
| SC-214.01 | 10 min | 4363 | 0.89 | 0.91 | 0.07 | 0.92 | 0.95 | 1.00 | 0.89 | 0.54 | 0.45 | 1.00 | 0.08 | 8.4% |
| SC-214.02 | 10 min | 4363 | 1.92 | 1.96 | 0.16 | 1.99 | 2.07 | 2.16 | 1.92 | 1.17 | 0.96 | 2.16 | 0.17 | 8.6% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-215.01 | 10 min | 4363 | 0.72 | 0.74 | 0.06 | 0.74 | 0.77 | 0.81 | 0.72 | 0.45 | 0.38 | 0.81 | 0.07 | 9.7% |
| SC-215.02 | 10 min | 4361 | 1.31 | 1.32 | 0.09 | 1.33 | 1.35 | 1.41 | 1.25 | 0.84 | 0.69 | 1.41 | 0.08 | 6.2% |
| SC-216.01 | 10 min | 4363 | 0.66 | 0.67 | 0.06 | 0.70 | 0.73 | 0.76 | 0.68 | 0.40 | 0.32 | 0.76 | 0.06 | 8.6% |
| SC-216.02 | 10 min | 4363 | 2.02 | 2.06 | 0.17 | 2.09 | 2.18 | 2.27 | 2.03 | 1.24 | 1.00 | 2.27 | 0.18 | 8.8% |
| SC-216.03 | 10 min | 4368 | 3.21 | 3.27 | 0.26 | 3.29 | 3.40 | 3.55 | 3.16 | 2.01 | 1.64 | 3.55 | 0.26 | 7.9% |
| SC-216.04 | 10 min | 4366 | 4.50 | 4.49 | 0.23 | 4.60 | 4.78 | 4.76 | 4.34 | 3.03 | 2.49 | 4.78 | 0.18 | 3.8% |
| SC-217.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.49 | 0.51 | 0.54 | 0.48 | 0.29 | 0.23 | 0.54 | 0.05 | 9.7% |
| SC-218.01 | 10 min | 4363 | 0.36 | 0.36 | 0.03 | 0.38 | 0.39 | 0.41 | 0.37 | 0.22 | 0.17 | 0.41 | 0.03 | 8.1% |
| SC-219.01 | 10 min | 4363 | 0.47 | 0.48 | 0.04 | 0.49 | 0.51 | 0.54 | 0.48 | 0.29 | 0.23 | 0.54 | 0.05 | 9.7% |
| SC-22.01 | 10 min | 4363 | 0.53 | 0.54 | 0.04 | 0.54 | 0.56 | 0.59 | 0.52 | 0.32 | 0.26 | 0.59 | 0.05 | 8.6% |
| SC-220.01 | 10 min | 4363 | 0.74 | 0.75 | 0.06 | 0.76 | 0.79 | 0.83 | 0.74 | 0.45 | 0.37 | 0.83 | 0.07 | 9.0% |
| SC-221.01 | 10 min | 4363 | 0.68 | 0.69 | 0.06 | 0.70 | 0.73 | 0.76 | 0.68 | 0.41 | 0.34 | 0.76 | 0.06 | 8.9% |
| SC-221.02 | 10 min | 4354 | 1.49 | 1.48 | 0.11 | 1.51 | 1.51 | 1.58 | 1.39 | 0.94 | 0.78 | 1.58 | 0.07 | 4.4% |
| SC-221.03 | 10 min | 4361 | 1.82 | 1.84 | 0.12 | 1.86 | 1.87 | 1.95 | 1.73 | 1.16 | 0.97 | 1.95 | 0.09 | 4.8% |
| SC-221.04 | 10 min | 4361 | 2.67 | 2.69 | 0.19 | 2.72 | 2.74 | 2.87 | 2.55 | 1.70 | 1.42 | 2.87 | 0.15 | 5.5% |
| SC-221.05 | 10 min | 4354 | 3.45 | 3.44 | 0.22 | 3.48 | 3.48 | 3.58 | 3.18 | 2.23 | 1.88 | 3.58 | 0.10 | 3.0% |
| SC-221.06 | 10 min | 4354 | 3.62 | 3.64 | 0.21 | 3.67 | 3.67 | 3.79 | 3.38 | 2.40 | 2.03 | 3.79 | 0.12 | 3.4% |
| SC-222.01 | 10 min | 4363 | 0.74 | 0.76 | 0.06 | 0.77 | 0.80 | 0.83 | 0.74 | 0.45 | 0.38 | 0.83 | 0.06 | 8.4% |
| SC-222.02 | 10 min | 4361 | 1.19 | 1.20 | 0.08 | 1.21 | 1.23 | 1.28 | 1.14 | 0.75 | 0.62 | 1.28 | 0.07 | 5.9% |
| SC-222.03 | 10 min | 4364 | 2.74 | 2.66 | 0.27 | 2.69 | 2.56 | 2.70 | 2.38 | 1.82 | 1.51 | 2.70 | 0.01 | 0.3% |
| SC-223.01 | 10 min | 4363 | 0.32 | 0.32 | 0.03 | 0.32 | 0.34 | 0.35 | 0.31 | 0.19 | 0.16 | 0.35 | 0.03 | 10.0% |
| SC-224.01 | 15 min | 4401 | 0.94 | 0.88 | 0.15 | 0.89 | 0.87 | 0.74 | 0.76 | 0.71 | 0.59 | 0.87 | -0.02 | -2.2% |
| SC-225.01 | 10 min | 4363 | 0.59 | 0.60 | 0.05 | 0.61 | 0.63 | 0.66 | 0.59 | 0.36 | 0.30 | 0.66 | 0.05 | 8.8% |
| SC-226.01 | 10 min | 4363 | 0.43 | 0.44 | 0.04 | 0.45 | 0.47 | 0.49 | 0.44 | 0.26 | 0.21 | 0.49 | 0.04 | 8.6% |
| SC-226.02 | 10 min | 4354 | 1.02 | 1.03 | 0.08 | 1.05 | 1.05 | 1.10 | 0.97 | 0.65 | 0.53 | 1.10 | 0.04 | 4.3% |
| SC-226.03 | 10 min | 4354 | 2.13 | 2.10 | 0.15 | 2.14 | 2.14 | 2.24 | 1.98 | 1.36 | 1.12 | 2.24 | 0.10 | 4.5% |
| SC-226.04 | 10 min | 4361 | 3.17 | 3.20 | 0.22 | 3.24 | 3.25 | 3.39 | 3.01 | 2.04 | 1.70 | 3.39 | 0.15 | 4.7% |
| SC-226.05 | 10 min | 4361 | 12.67 | 12.74 | 0.85 | 12.91 | 12.94 | 13.44 | 11.94 | 8.40 | 7.00 | 13.44 | 0.53 | 4.1% |
| SC-226.06 | 10 min | 4365 | 13.99 | 13.97 | 0.68 | 14.02 | 14.33 | 14.49 | 13.06 | 9.34 | 7.92 | 14.49 | 0.47 | 3.3% |
| SC-226.07 | 10 min | 4363 | 15.18 | 15.18 | 0.53 | 15.32 | 15.73 | 15.58 | 14.19 | 10.43 | 8.84 | 15.73 | 0.41 | 2.7% |
| SC-226.08 | 10 min | 4363 | 15.84 | 15.83 | 0.56 | 16.12 | 16.50 | 16.18 | 14.83 | 11.01 | 9.32 | 16.50 | 0.38 | 2.3% |
| SC-227.01 | 10 min | 4363 | 0.23 | 0.23 | 0.02 | 0.23 | 0.24 | 0.25 | 0.23 | 0.14 | 0.11 | 0.25 | 0.02 | 10.3% |
| SC-228.01 | 10 min | 4363 | 0.48 | 0.49 | 0.04 | 0.50 | 0.52 | 0.54 | 0.48 | 0.29 | 0.24 | 0.54 | 0.04 | 8.8% |
| SC-229.01 | 10 min | 4363 | 0.34 | 0.35 | 0.03 | 0.35 | 0.37 | 0.38 | 0.34 | 0.21 | 0.17 | 0.38 | 0.03 | 9.4% |
| SC-23.01 | 10 min | 4363 | 0.69 | 0.70 | 0.06 | 0.71 | 0.74 | 0.77 | 0.69 | 0.42 | 0.34 | 0.77 | 0.06 | 8.8% |
| SC-23.02 | 10 min | 4354 | 2.07 | 2.06 | 0.16 | 2.09 | 2.09 | 2.19 | 1.94 | 1.32 | 1.07 | 2.19 | 0.10 | 4.9% |
| SC-23.03 | 10 min | 4354 | 2.56 | 2.52 | 0.18 | 2.56 | 2.56 | 2.68 | 2.36 | 1.65 | 1.35 | 2.68 | 0.12 | 4.6% |
| SC-230.01 | 10 min | 4363 | 0.34 | 0.34 | 0.03 | 0.35 | 0.36 | 0.38 | 0.33 | 0.21 | 0.17 | 0.38 | 0.03 | 8.1% |
| SC-231.01 | 10 min | 4363 | 0.37 | 0.38 | 0.03 | 0.39 | 0.40 | 0.42 | 0.37 | 0.23 | 0.19 | 0.42 | 0.03 | 7.9% |
| SC-232.01 | 10 min | 4365 | 0.92 | 0.94 | 0.07 | 0.94 | 0.97 | 1.01 | 0.90 | 0.59 | 0.48 | 1.01 | 0.07 | 7.4% |
| SC-232.02 | 10 min | 4365 | 1.47 | 1.48 | 0.11 | 1.48 | 1.53 | 1.60 | 1.42 | 0.95 | 0.77 | 1.60 | 0.12 | 7.8% |
| SC-232.03 | 10 min | 4354 | 3.42 | 3.44 | 0.24 | 3.49 | 3.49 | 3.65 | 3.24 | 2.20 | 1.82 | 3.65 | 0.16 | 4.6% |
| SC-233.01 | 10 min | 4363 | 0.66 | 0.67 | 0.05 | 0.68 | 0.71 | 0.74 | 0.65 | 0.40 | 0.33 | 0.74 | 0.06 | 8.5% |
| SC-233.02 | 10 min | 4361 | 1.09 | 1.10 | 0.08 | 1.11 | 1.12 | 1.17 | 1.04 | 0.68 | 0.57 | 1.17 | 0.05 | 5.0% |
| SC-234.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.98 | 1.02 | 1.07 | 0.95 | 0.58 | 0.48 | 1.07 | 0.09 | 9.3% |
| SC-234.02 | 10 min | 4354 | 1.84 | 1.85 | 0.13 | 1.88 | 1.88 | 1.96 | 1.74 | 1.17 | 0.98 | 1.96 | 0.08 | 4.3% |
| SC-234.03 | 10 min | 4354 | 5.45 | 5.41 | 0.37 | 5.49 | 5.49 | 5.75 | 5.09 | 3.61 | 3.01 | 5.75 | 0.26 | 4.7% |
| SC-235.01 | 10 min | 4363 | 0.35 | 0.35 | 0.03 | 0.36 | 0.38 | 0.40 | 0.35 | 0.21 | 0.17 | 0.40 | 0.04 | 10.1% |
| SC-236.01 | 10 min | 4363 | 0.44 | 0.45 | 0.04 | 0.46 | 0.48 | 0.50 | 0.45 | 0.27 | 0.22 | 0.50 | 0.04 | 9.2% |
| SC-236.02 | 10 min | 4363 | 0.68 | 0.70 | 0.06 | 0.71 | 0.74 | 0.77 | 0.68 | 0.42 | 0.34 | 0.77 | 0.06 | 8.5% |
| SC-237.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.64 | 0.67 | 0.60 | 0.37 | 0.31 | 0.67 | 0.05 | 8.5% |
| SC-237.02 | 10 min | 4364 | 1.33 | 1.30 | 0.11 | 1.31 | 1.26 | 1.33 | 1.24 | 0.96 | 0.80 | 1.33 | 0.02 | 1.4% |
| SC-238.01 | 10 min | 4363 | 0.39 | 0.39 | 0.03 | 0.40 | 0.42 | 0.44 | 0.39 | 0.23 | 0.19 | 0.44 | 0.04 | 9.7% |
| SC-238.02 | 10 min | 4354 | 0.90 | 0.90 | 0.06 | 0.91 | 0.91 | 0.96 | 0.85 | 0.56 | 0.47 | 0.96 | 0.05 | 5.1% |
| SC-239.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.51 | 0.53 | 0.56 | 0.50 | 0.31 | 0.25 | 0.56 | 0.05 | 9.1% |
| SC-24.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.65 | 0.67 | 0.60 | 0.37 | 0.30 | 0.67 | 0.05 | 8.8% |
| SC-240.01 | 20 min | 4433 | 1.40 | 1.38 | 0.14 | 1.39 | 1.03 | 1.21 | 1.29 | 1.09 | 0.98 | 1.29 | -0.10 | -7.1% |
| SC-240.02 | 20 min | 4429 | 2.04 | 1.97 | 0.19 | 1.99 | 1.57 | 1.71 | 1.93 | 1.64 | 1.42 | 1.93 | -0.06 | -3.1% |
| SC-241.01 | 10 min | 4364 | 6.16 | 6.23 | 0.44 | 6.26 | 5.66 | 4.57 | 4.89 | 4.44 | 3.65 | 5.66 | -0.60 | -9.6% |
| SC-242.01 | 10 min | 4363 | 0.69 | 0.71 | 0.06 | 0.71 | 0.74 | 0.77 | 0.69 | 0.45 | 0.36 | 0.77 | 0.06 | 8.1% |
| SC-242.02 | 10 min | 4361 | 1.80 | 1.82 | 0.13 | 1.83 | 1.87 | 1.96 | 1.74 | 1.18 | 0.96 | 1.96 | 0.13 | 6.9% |
| SC-242.03 | 10 min | 4361 | 2.68 | 2.71 | 0.20 | 2.72 | 2.77 | 2.90 | 2.58 | 1.75 | 1.43 | 2.90 | 0.18 | 6.6% |
| SC-242.04 | 10 min | 4361 | 2.85 | 2.88 | 0.22 | 2.89 | 2.96 | 3.09 | 2.74 | 1.87 | 1.53 | 3.09 | 0.20 | 7.0% |
| SC-242.05 | 10 min | 4354 | 6.35 | 6.33 | 0.41 | 6.41 | 6.41 | 6.52 | 5.86 | 4.12 | 3.43 | 6.52 | 0.11 | 1.7% |
| SC-242.06 | 10 min | 4354 | 8.37 | 8.13 | 0.53 | 8.16 | 8.16 | 8.27 | 7.45 | 5.50 | 4.61 | 8.27 | 0.11 | 1.4% |
| SC-242.07 | 10 min | 4354 | 9.07 | 8.79 | 0.56 | 8.82 | 8.82 | 8.85 | 7.98 | 6.06 | 5.07 | 8.85 | 0.03 | 0.4% |
| SC-242.08 | 10 min | 4364 | 17.82 | 17.71 | 0.96 | 17.76 | 16.94 | 15.66 | 14.47 | 12.41 | 10.29 | 16.94 | -0.82 | -4.6% |
| SC-243.01 | 10 min | 4363 | 0.66 | 0.67 | 0.06 | 0.69 | 0.72 | 0.75 | 0.66 | 0.39 | 0.33 | 0.75 | 0.06 | 8.4% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-243.02 | 10 min | 4365 | 2.43 | 2.46 | 0.18 | 2.47 | 2.55 | 2.66 | 2.36 | 1.50 | 1.26 | 2.66 | 0.19 | 7.7% |
| SC-244.01 | 10 min | 4363 | 0.92 | 0.94 | 0.08 | 0.96 | 1.01 | 1.05 | 0.93 | 0.56 | 0.46 | 1.05 | 0.09 | 9.6% |
| SC-245.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.51 | 0.53 | 0.55 | 0.49 | 0.29 | 0.24 | 0.55 | 0.04 | 8.1% |
| SC-246.01 | 10 min | 4363 | 0.33 | 0.34 | 0.03 | 0.34 | 0.36 | 0.37 | 0.33 | 0.20 | 0.17 | 0.37 | 0.03 | 9.8% |
| SC-246.02 | 10 min | 4364 | 0.91 | 0.87 | 0.09 | 0.89 | 0.86 | 0.88 | 0.79 | 0.60 | 0.49 | 0.88 | -0.02 | -1.7% |
| SC-247.01 | 10 min | 4354 | 0.90 | 0.89 | 0.06 | 0.91 | 0.91 | 0.95 | 0.84 | 0.57 | 0.47 | 0.95 | 0.04 | 4.1% |
| SC-247.02 | 10 min | 4364 | 2.32 | 2.36 | 0.29 | 2.38 | 2.00 | 1.89 | 1.95 | 1.57 | 1.30 | 2.00 | -0.38 | -15.8% |
| SC-248.01 | 10 min | 4364 | 1.17 | 1.18 | 0.13 | 1.19 | 1.03 | 0.88 | 0.93 | 0.80 | 0.65 | 1.03 | -0.16 | -13.8% |
| SC-249.01 | 20 min | 4399 | 0.28 | 0.27 | 0.03 | 0.27 | 0.20 | 0.24 | 0.25 | 0.21 | 0.19 | 0.25 | -0.02 | -8.2% |
| SC-249.02 | 20 min | 4371 | 0.81 | 0.78 | 0.11 | 0.78 | 0.71 | 0.75 | 0.78 | 0.62 | 0.52 | 0.78 | 0.00 | -0.1% |
| SC-249.03 | 10 min | 4364 | 1.66 | 1.61 | 0.12 | 1.61 | 1.59 | 1.66 | 1.54 | 1.21 | 1.00 | 1.66 | 0.05 | 3.2% |
| SC-249.04 | 10 min | 4354 | 4.02 | 3.91 | 0.27 | 3.96 | 3.96 | 4.14 | 3.67 | 2.84 | 2.33 | 4.14 | 0.18 | 4.5% |
| SC-249.05 | 10 min | 4354 | 11.97 | 11.61 | 0.82 | 11.65 | 11.65 | 11.95 | 10.55 | 8.15 | 6.81 | 11.95 | 0.30 | 2.5% |
| SC-249.06 | 10 min | 4364 | 20.41 | 20.41 | 1.04 | 20.47 | 19.35 | 18.07 | 16.60 | 14.89 | 12.59 | 19.35 | -1.12 | -5.5% |
| SC-25.01 | 10 min | 4363 | 1.83 | 1.86 | 0.16 | 1.90 | 1.98 | 2.07 | 1.84 | 1.10 | 0.91 | 2.07 | 0.17 | 8.7% |
| SC-25.02 | 10 min | 4361 | 2.63 | 2.66 | 0.19 | 2.66 | 2.73 | 2.85 | 2.53 | 1.63 | 1.36 | 2.85 | 0.19 | 7.1% |
| SC-25.03 | 10 min | 4365 | 2.86 | 2.90 | 0.21 | 2.92 | 3.01 | 3.14 | 2.79 | 1.80 | 1.50 | 3.14 | 0.22 | 7.7% |
| SC-25.04 | 10 min | 4361 | 4.85 | 4.89 | 0.35 | 4.94 | 4.99 | 5.23 | 4.63 | 3.09 | 2.58 | 5.23 | 0.29 | 5.8% |
| SC-250.01 | 10 min | 4363 | 0.21 | 0.21 | 0.02 | 0.22 | 0.22 | 0.24 | 0.21 | 0.13 | 0.11 | 0.24 | 0.02 | 6.9% |
| SC-251.01 | 10 min | 4363 | 0.52 | 0.53 | 0.04 | 0.53 | 0.55 | 0.58 | 0.51 | 0.32 | 0.27 | 0.58 | 0.05 | 9.1% |
| SC-252.01 | 10 min | 4361 | 0.60 | 0.61 | 0.04 | 0.61 | 0.62 | 0.65 | 0.58 | 0.41 | 0.33 | 0.65 | 0.04 | 6.9% |
| SC-252.02 | 10 min | 4365 | 1.11 | 1.13 | 0.08 | 1.14 | 1.17 | 1.23 | 1.09 | 0.72 | 0.59 | 1.23 | 0.09 | 7.5% |
| SC-253.01 | 10 min | 4363 | 0.87 | 0.89 | 0.08 | 0.90 | 0.94 | 0.99 | 0.87 | 0.52 | 0.44 | 0.99 | 0.09 | 9.7% |
| SC-253.02 | 10 min | 4365 | 3.17 | 3.20 | 0.23 | 3.21 | 3.30 | 3.45 | 3.06 | 2.01 | 1.67 | 3.45 | 0.24 | 7.4% |
| SC-253.03 | 10 min | 4365 | 3.84 | 3.90 | 0.31 | 3.92 | 4.04 | 4.22 | 3.75 | 2.47 | 2.05 | 4.22 | 0.30 | 7.7% |
| SC-254.01 | 10 min | 4363 | 0.89 | 0.90 | 0.07 | 0.91 | 0.95 | 0.99 | 0.88 | 0.55 | 0.46 | 0.99 | 0.08 | 9.1% |
| SC-255.01 | 10 min | 4361 | 0.84 | 0.85 | 0.05 | 0.86 | 0.86 | 0.90 | 0.80 | 0.57 | 0.47 | 0.90 | 0.04 | 5.0% |
| SC-256.01 | 10 min | 4361 | 0.74 | 0.74 | 0.05 | 0.74 | 0.77 | 0.80 | 0.71 | 0.46 | 0.38 | 0.80 | 0.06 | 8.1% |
| SC-257.01 | 10 min | 4365 | 0.41 | 0.42 | 0.03 | 0.42 | 0.43 | 0.45 | 0.40 | 0.26 | 0.21 | 0.45 | 0.03 | 6.9% |
| SC-258.01 | 10 min | 4354 | 1.89 | 1.90 | 0.13 | 1.92 | 1.92 | 2.01 | 1.79 | 1.19 | 0.97 | 2.01 | 0.09 | 4.6% |
| SC-258.02 | 10 min | 4364 | 3.20 | 3.25 | 0.42 | 3.28 | 2.73 | 2.84 | 2.76 | 2.18 | 1.80 | 2.84 | -0.44 | -13.3% |
| SC-259.01 | 10 min | 4363 | 0.80 | 0.81 | 0.07 | 0.83 | 0.87 | 0.91 | 0.80 | 0.51 | 0.40 | 0.91 | 0.08 | 9.1% |
| SC-259.02 | 10 min | 4361 | 1.69 | 1.71 | 0.13 | 1.71 | 1.75 | 1.83 | 1.63 | 1.10 | 0.89 | 1.83 | 0.12 | 7.2% |
| SC-259.03 | 10 min | 4365 | 2.40 | 2.43 | 0.19 | 2.43 | 2.50 | 2.62 | 2.32 | 1.55 | 1.27 | 2.62 | 0.19 | 7.8% |
| SC-259.04 | 10 min | 4365 | 4.34 | 4.38 | 0.33 | 4.39 | 4.52 | 4.73 | 4.20 | 2.83 | 2.29 | 4.73 | 0.34 | 7.6% |
| SC-259.05 | 10 min | 4361 | 5.34 | 5.39 | 0.41 | 5.41 | 5.54 | 5.79 | 5.13 | 3.50 | 2.85 | 5.79 | 0.38 | 7.1% |
| SC-259.06 | 10 min | 4365 | 6.87 | 6.94 | 0.52 | 6.96 | 7.16 | 7.46 | 6.62 | 4.52 | 3.69 | 7.46 | 0.50 | 7.1% |
| SC-259.07 | 10 min | 4356 | 8.84 | 8.71 | 0.41 | 8.73 | 9.34 | 9.03 | 8.36 | 6.09 | 5.13 | 9.34 | 0.61 | 6.9% |
| SC-259.08 | 10 min | 4356 | 10.47 | 10.44 | 0.31 | 10.47 | 10.82 | 10.11 | 9.56 | 7.23 | 6.07 | 10.82 | 0.35 | 3.3% |
| SC-259.09 | 10 min | 4356 | 27.82 | 27.77 | 0.33 | 27.80 | 28.21 | 26.11 | 24.62 | 20.29 | 17.57 | 28.21 | 0.41 | 1.5% |
| SC-259.10 | 10 min | 4356 | 28.24 | 28.21 | 0.30 | 28.24 | 28.58 | 26.69 | 25.00 | 20.67 | 18.03 | 28.58 | 0.34 | 1.2% |
| SC-26.01 | 10 min | 4363 | 0.56 | 0.58 | 0.04 | 0.58 | 0.60 | 0.63 | 0.56 | 0.35 | 0.28 | 0.63 | 0.05 | 7.9% |
| SC-260.01 | 10 min | 4363 | 0.53 | 0.54 | 0.05 | 0.55 | 0.58 | 0.60 | 0.54 | 0.32 | 0.27 | 0.60 | 0.05 | 9.8% |
| SC-261.01 | 10 min | 4363 | 0.68 | 0.69 | 0.05 | 0.69 | 0.72 | 0.75 | 0.67 | 0.43 | 0.35 | 0.75 | 0.06 | 9.0% |
| SC-262.01 | 10 min | 4363 | 0.78 | 0.79 | 0.07 | 0.81 | 0.84 | 0.88 | 0.78 | 0.47 | 0.39 | 0.88 | 0.07 | 8.7% |
| SC-262.02 | 10 min | 4365 | 1.42 | 1.44 | 0.11 | 1.44 | 1.49 | 1.55 | 1.38 | 0.88 | 0.74 | 1.55 | 0.11 | 7.8% |
| SC-263.01 | 10 min | 4363 | 0.83 | 0.84 | 0.07 | 0.85 | 0.89 | 0.93 | 0.82 | 0.51 | 0.42 | 0.93 | 0.08 | 9.3% |
| SC-264.01 | 10 min | 4363 | 0.45 | 0.46 | 0.04 | 0.47 | 0.49 | 0.51 | 0.45 | 0.28 | 0.22 | 0.51 | 0.04 | 8.2% |
| SC-265.01 | 10 min | 4363 | 0.60 | 0.61 | 0.05 | 0.62 | 0.64 | 0.67 | 0.60 | 0.38 | 0.31 | 0.67 | 0.05 | 8.5% |
| SC-265.02 | 15 min | 4400 | 1.56 | 1.47 | 0.26 | 1.50 | 1.46 | 1.54 | 1.47 | 1.14 | 0.96 | 1.54 | 0.04 | 2.5% |
| SC-265.03 | 15 min | 4401 | 2.72 | 2.62 | 0.30 | 2.66 | 2.61 | 2.34 | 2.25 | 2.06 | 1.76 | 2.61 | -0.05 | -2.0% |
| SC-265.04 | 10 min | 4361 | 12.78 | 12.76 | 0.33 | 12.83 | 12.84 | 12.21 | 11.27 | 9.47 | 8.25 | 12.84 | 0.01 | 0.1% |
| SC-266.01 | 10 min | 4354 | 0.79 | 0.77 | 0.05 | 0.78 | 0.78 | 0.82 | 0.73 | 0.55 | 0.45 | 0.82 | 0.04 | 5.2% |
| SC-266.02 | 10 min | 4354 | 1.50 | 1.46 | 0.10 | 1.47 | 1.47 | 1.54 | 1.37 | 1.05 | 0.87 | 1.54 | 0.07 | 4.7% |
| SC-266.03 | 10 min | 4361 | 1.78 | 1.80 | 0.12 | 1.82 | 1.83 | 1.91 | 1.70 | 1.25 | 1.04 | 1.91 | 0.09 | 4.9% |
| SC-266.04 | 10 min | 4354 | 7.01 | 6.81 | 0.48 | 6.89 | 6.89 | 7.17 | 6.36 | 5.02 | 4.16 | 7.17 | 0.28 | 4.0% |
| SC-266.05 | 10 min | 4361 | 8.01 | 8.03 | 0.29 | 8.04 | 8.21 | 8.21 | 7.41 | 5.93 | 5.03 | 8.21 | 0.17 | 2.1% |
| SC-267.01 | 10 min | 4363 | 0.73 | 0.75 | 0.06 | 0.75 | 0.78 | 0.82 | 0.73 | 0.45 | 0.37 | 0.82 | 0.07 | 9.2% |
| SC-268.01 | 10 min | 4363 | 1.24 | 1.26 | 0.10 | 1.27 | 1.33 | 1.39 | 1.23 | 0.78 | 0.64 | 1.39 | 0.12 | 9.3% |
| SC-268.02 | 10 min | 4354 | 3.27 | 3.22 | 0.22 | 3.27 | 3.27 | 3.41 | 3.03 | 2.28 | 1.88 | 3.41 | 0.14 | 4.4% |
| SC-269.01 | 15 min | 4401 | 0.56 | 0.52 | 0.09 | 0.52 | 0.50 | 0.52 | 0.53 | 0.42 | 0.35 | 0.53 | 0.01 | 1.2% |
| SC-27.01 | 10 min | 4354 | 0.61 | 0.60 | 0.04 | 0.60 | 0.60 | 0.63 | 0.56 | 0.41 | 0.34 | 0.63 | 0.03 | 4.3% |
| SC-270.01 | 10 min | 4364 | 0.63 | 0.64 | 0.06 | 0.65 | 0.57 | 0.51 | 0.56 | 0.46 | 0.39 | 0.57 | -0.08 | -13.0% |
| SC-271.01 | 10 min | 4364 | 0.39 | 0.40 | 0.04 | 0.40 | 0.35 | 0.33 | 0.34 | 0.28 | 0.23 | 0.35 | -0.05 | -13.0% |
| SC-272.01 | 20 min | 4433 | 0.93 | 0.87 | 0.12 | 0.87 | 0.80 | 0.77 | 0.85 | 0.69 | 0.59 | 0.85 | -0.02 | -1.8% |
| SC-272.02 | 10 min | 4364 | 1.92 | 1.94 | 0.23 | 1.96 | 1.66 | 1.70 | 1.78 | 1.40 | 1.17 | 1.78 | -0.19 | -9.4% |
| SC-272.03 | 10 min | 4364 | 3.18 | 3.19 | 0.38 | 3.23 | 2.79 | 2.86 | 2.86 | 2.24 | 1.86 | 2.86 | -0.37 | -11.4% |
| SC-273.01 | 10 min | 4364 | 0.89 | 0.89 | 0.12 | 0.90 | 0.77 | 0.79 | 0.76 | 0.59 | 0.49 | 0.79 | -0.11 | -11.8% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-274.01 | 20 min | 4433 | 0.47 | 0.47 | 0.05 | 0.47 | 0.33 | 0.39 | 0.48 | 0.43 | 0.36 | 0.48 | 0.01 | 2.9% |
| SC-274.02 | 10 min | 4354 | 1.78 | 1.73 | 0.13 | 1.76 | 1.76 | 1.84 | 1.66 | 1.33 | 1.02 | 1.84 | 0.08 | 4.6% |
| SC-274.03 | 10 min | 4361 | 4.22 | 4.25 | 0.29 | 4.31 | 4.32 | 4.51 | 4.01 | 2.87 | 2.29 | 4.51 | 0.20 | 4.7% |
| SC-274.04 | 10 min | 4361 | 5.45 | 5.49 | 0.37 | 5.51 | 5.63 | 5.90 | 5.22 | 3.66 | 2.94 | 5.90 | 0.39 | 7.0% |
| SC-274.05 | 10 min | 4354 | 7.23 | 7.14 | 0.54 | 7.26 | 7.26 | 7.63 | 6.67 | 4.86 | 3.92 | 7.63 | 0.37 | 5.2% |
| SC-275.01 | 10 min | 4363 | 0.80 | 0.82 | 0.07 | 0.83 | 0.87 | 0.91 | 0.80 | 0.49 | 0.41 | 0.91 | 0.08 | 9.1% |
| SC-276.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.60 | 0.63 | 0.65 | 0.58 | 0.35 | 0.29 | 0.65 | 0.05 | 9.0% |
| SC-277.01 | 10 min | 4361 | 0.75 | 0.75 | 0.05 | 0.76 | 0.77 | 0.80 | 0.71 | 0.47 | 0.38 | 0.80 | 0.04 | 5.3% |
| SC-278.01 | 10 min | 4363 | 0.45 | 0.46 | 0.04 | 0.46 | 0.48 | 0.50 | 0.45 | 0.27 | 0.23 | 0.50 | 0.04 | 9.7% |
| SC-278.02 | 10 min | 4364 | 6.21 | 6.30 | 0.73 | 6.36 | 5.39 | 4.59 | 5.11 | 4.21 | 3.45 | 5.39 | -0.97 | -15.3% |
| SC-279.01 | 10 min | 4364 | 0.81 | 0.82 | 0.10 | 0.83 | 0.71 | 0.74 | 0.71 | 0.56 | 0.47 | 0.74 | -0.09 | -10.3% |
| SC-279.02 | 10 min | 4364 | 5.84 | 5.89 | 0.77 | 5.96 | 5.03 | 4.93 | 4.97 | 3.94 | 3.26 | 5.03 | -0.93 | -15.6% |
| SC-28.01 | 15 min | 4401 | 0.54 | 0.51 | 0.07 | 0.52 | 0.46 | 0.46 | 0.45 | 0.41 | 0.36 | 0.46 | -0.06 | -10.8% |
| SC-28.02 | 20 min | 4433 | 1.21 | 1.12 | 0.17 | 1.13 | 1.04 | 1.03 | 1.12 | 0.90 | 0.76 | 1.12 | -0.01 | -1.0% |
| SC-28.03 | 15 min | 4396 | 1.68 | 1.58 | 0.26 | 1.60 | 1.52 | 1.60 | 1.58 | 1.25 | 1.05 | 1.60 | 0.00 | -0.3% |
| SC-28.04 | 10 min | 4357 | 3.59 | 3.47 | 0.28 | 3.47 | 3.47 | 3.64 | 3.21 | 2.46 | 2.04 | 3.64 | 0.17 | 5.0% |
| SC-280.01 | 10 min | 4354 | 0.76 | 0.74 | 0.05 | 0.75 | 0.75 | 0.78 | 0.70 | 0.50 | 0.42 | 0.78 | 0.03 | 4.3% |
| SC-29.01 | 10 min | 4363 | 0.56 | 0.57 | 0.05 | 0.58 | 0.60 | 0.63 | 0.56 | 0.34 | 0.28 | 0.63 | 0.05 | 7.9% |
| SC-29.02 | 10 min | 4354 | 1.56 | 1.57 | 0.11 | 1.59 | 1.59 | 1.66 | 1.47 | 0.98 | 0.81 | 1.66 | 0.07 | 4.7% |
| SC-3.01 | 10 min | 4364 | 0.70 | 0.70 | 0.07 | 0.70 | 0.65 | 0.68 | 0.62 | 0.49 | 0.41 | 0.68 | -0.02 | -3.6% |
| SC-3.02 | 15 min | 4396 | 2.29 | 2.15 | 0.38 | 2.17 | 2.06 | 2.17 | 2.10 | 1.66 | 1.39 | 2.17 | 0.00 | -0.2% |
| SC-30.01 | 10 min | 4363 | 0.99 | 1.01 | 0.08 | 1.03 | 1.07 | 1.12 | 1.00 | 0.60 | 0.50 | 1.12 | 0.09 | 8.9% |
| SC-30.02 | 10 min | 4354 | 1.82 | 1.82 | 0.13 | 1.84 | 1.84 | 1.93 | 1.71 | 1.15 | 0.95 | 1.93 | 0.09 | 4.6% |
| SC-30.03 | 10 min | 4354 | 2.53 | 2.54 | 0.17 | 2.58 | 2.58 | 2.70 | 2.39 | 1.60 | 1.33 | 2.70 | 0.12 | 4.5% |
| SC-30.04 | 10 min | 4361 | 3.22 | 3.25 | 0.23 | 3.28 | 3.31 | 3.46 | 3.07 | 2.05 | 1.71 | 3.46 | 0.18 | 5.5% |
| SC-31.01 | 10 min | 4357 | 0.70 | 0.67 | 0.06 | 0.67 | 0.67 | 0.70 | 0.62 | 0.45 | 0.37 | 0.70 | 0.03 | 4.7% |
| SC-31.02 | 10 min | 4354 | 1.47 | 1.42 | 0.12 | 1.43 | 1.43 | 1.50 | 1.32 | 0.95 | 0.79 | 1.50 | 0.07 | 4.8% |
| SC-32.01 | 10 min | 4364 | 0.67 | 0.68 | 0.06 | 0.68 | 0.60 | 0.49 | 0.55 | 0.47 | 0.39 | 0.60 | -0.08 | -11.1% |
| SC-32.02 | 15 min | 4401 | 0.93 | 0.90 | 0.13 | 0.91 | 0.86 | 0.74 | 0.74 | 0.71 | 0.59 | 0.86 | -0.05 | -5.5% |
| SC-33.01 | 10 min | 4363 | 0.84 | 0.85 | 0.07 | 0.86 | 0.90 | 0.94 | 0.83 | 0.51 | 0.42 | 0.94 | 0.08 | 9.1% |
| SC-33.02 | 10 min | 4365 | 1.95 | 1.97 | 0.14 | 1.97 | 2.03 | 2.13 | 1.88 | 1.22 | 1.02 | 2.13 | 0.16 | 8.0% |
| SC-34.01 | 10 min | 4354 | 0.67 | 0.66 | 0.05 | 0.67 | 0.67 | 0.70 | 0.62 | 0.42 | 0.34 | 0.70 | 0.03 | 4.1% |
| SC-34.02 | 10 min | 4354 | 1.37 | 1.32 | 0.11 | 1.34 | 1.34 | 1.40 | 1.24 | 0.88 | 0.71 | 1.40 | 0.06 | 4.3% |
| SC-34.03 | 10 min | 4361 | 1.61 | 1.61 | 0.09 | 1.63 | 1.64 | 1.72 | 1.53 | 1.04 | 0.86 | 1.72 | 0.09 | 5.5% |
| SC-35.01 | 10 min | 4363 | 0.60 | 0.60 | 0.05 | 0.63 | 0.65 | 0.68 | 0.61 | 0.36 | 0.29 | 0.68 | 0.05 | 8.5% |
| SC-35.02 | 10 min | 4365 | 1.65 | 1.68 | 0.13 | 1.69 | 1.74 | 1.81 | 1.62 | 1.02 | 0.83 | 1.81 | 0.12 | 7.3% |
| SC-35.03 | 10 min | 4365 | 2.63 | 2.67 | 0.21 | 2.69 | 2.77 | 2.89 | 2.57 | 1.63 | 1.32 | 2.89 | 0.20 | 7.5% |
| SC-35.04 | 10 min | 4368 | 2.80 | 2.86 | 0.23 | 2.87 | 2.97 | 3.09 | 2.76 | 1.76 | 1.42 | 3.09 | 0.22 | 7.8% |
| SC-36.01 | 10 min | 4363 | 1.28 | 1.31 | 0.10 | 1.32 | 1.37 | 1.43 | 1.27 | 0.78 | 0.65 | 1.43 | 0.11 | 8.6% |
| SC-36.02 | 10 min | 4363 | 2.31 | 2.35 | 0.19 | 2.37 | 2.47 | 2.58 | 2.29 | 1.40 | 1.17 | 2.58 | 0.21 | 8.7% |
| SC-37.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.50 | 0.52 | 0.55 | 0.49 | 0.30 | 0.25 | 0.55 | 0.05 | 9.5% |
| SC-37.02 | 10 min | 4361 | 1.39 | 1.41 | 0.10 | 1.42 | 1.43 | 1.50 | 1.33 | 0.87 | 0.71 | 1.50 | 0.08 | 5.4% |
| SC-38.01 | 10 min | 4365 | 0.58 | 0.59 | 0.05 | 0.59 | 0.61 | 0.63 | 0.56 | 0.36 | 0.29 | 0.63 | 0.04 | 7.5% |
| SC-39.01 | 10 min | 4363 | 0.33 | 0.34 | 0.03 | 0.34 | 0.36 | 0.37 | 0.33 | 0.20 | 0.17 | 0.37 | 0.03 | 9.2% |
| SC-4.01 | 15 min | 4392 | 0.80 | 0.74 | 0.14 | 0.74 | 0.72 | 0.65 | 0.72 | 0.60 | 0.51 | 0.72 | -0.02 | -2.3% |
| SC-40.01 | 10 min | 4363 | 0.77 | 0.78 | 0.07 | 0.81 | 0.85 | 0.89 | 0.79 | 0.46 | 0.37 | 0.89 | 0.08 | 9.7% |
| SC-41.01 | 10 min | 4363 | 0.50 | 0.51 | 0.04 | 0.53 | 0.55 | 0.58 | 0.51 | 0.30 | 0.24 | 0.58 | 0.05 | 8.6% |
| SC-42.01 | 10 min | 4363 | 1.72 | 1.74 | 0.15 | 1.81 | 1.88 | 1.97 | 1.75 | 1.03 | 0.84 | 1.97 | 0.16 | 8.9% |
| SC-43.01 | 10 min | 4363 | 0.37 | 0.37 | 0.03 | 0.39 | 0.41 | 0.43 | 0.38 | 0.22 | 0.17 | 0.43 | 0.04 | 9.8% |
| SC-44.01 | 10 min | 4363 | 1.19 | 1.21 | 0.10 | 1.23 | 1.29 | 1.35 | 1.19 | 0.72 | 0.60 | 1.35 | 0.12 | 9.3% |
| SC-44.02 | 10 min | 4361 | 1.92 | 1.94 | 0.14 | 1.95 | 1.98 | 2.07 | 1.84 | 1.20 | 1.00 | 2.07 | 0.12 | 6.1% |
| SC-44.03 | 10 min | 4361 | 2.63 | 2.65 | 0.18 | 2.67 | 2.72 | 2.85 | 2.52 | 1.66 | 1.38 | 2.85 | 0.18 | 6.6% |
| SC-44.04 | 10 min | 4354 | 4.04 | 4.05 | 0.29 | 4.11 | 4.11 | 4.31 | 3.81 | 2.58 | 2.15 | 4.31 | 0.20 | 4.8% |
| SC-44.05 | 10 min | 4361 | 7.05 | 7.09 | 0.41 | 7.15 | 7.20 | 7.37 | 6.60 | 4.59 | 3.87 | 7.37 | 0.22 | 3.1% |
| SC-44.06 | 10 min | 4361 | 7.52 | 7.53 | 0.37 | 7.54 | 7.68 | 7.72 | 6.98 | 5.01 | 4.24 | 7.72 | 0.18 | 2.3% |
| SC-44.07 | 10 min | 4354 | 8.52 | 8.41 | 0.24 | 8.44 | 8.44 | 8.09 | 7.43 | 6.07 | 5.12 | 8.44 | 0.00 | -0.1% |
| SC-44.08 | 10 min | 4364 | 10.90 | 10.80 | 0.36 | 10.83 | 10.61 | 9.68 | 9.15 | 7.79 | 6.55 | 10.61 | -0.22 | -2.1% |
| SC-44.09 | 10 min | 4364 | 11.51 | 11.44 | 0.24 | 11.45 | 11.37 | 10.52 | 9.89 | 8.40 | 7.34 | 11.37 | -0.08 | -0.7% |
| SC-44.10 | 10 min | 4720 | 1.79 | 1.79 | 0.11 | 1.81 | 0.68 | 0.70 | 0.71 | 0.76 | 2.17 | 2.17 | 0.35 | 19.3% |
| SC-44.11 | 30 min | 4498 | 13.07 | 12.86 | 1.31 | 13.48 | 5.40 | 11.44 | 13.34 | 15.28 | 13.23 | 15.28 | 1.80 | 13.4% |
| SC-44.12 | 10 min | 4787 | 0.77 | 0.79 | 0.08 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.99 | 0.99 | 0.21 | 27.4% |
| SC-44.13 | 10 min | 4787 | 0.82 | 0.82 | 0.04 | 0.82 | 0.20 | 0.24 | 0.28 | 0.38 | 0.97 | 0.97 | 0.15 | 18.5% |
| SC-44.14 | 10 min | 4787 | 1.61 | 1.61 | 0.08 | 1.62 | 0.73 | 1.19 | 1.40 | 1.67 | 1.57 | 1.67 | 0.05 | 3.2% |
| SC-44.15 | 10 min | 4785 | 2.79 | 2.80 | 0.03 | 2.80 | 2.36 | 2.53 | 2.63 | 2.88 | 2.91 | 2.91 | 0.11 | 4.0% |
| SC-44.16 | 10 min | 4785 | 2.85 | 2.86 | 0.03 | 2.86 | 2.46 | 2.63 | 2.73 | 2.97 | 2.97 | 2.97 | 0.11 | 3.7% |
| SC-44.17 | 10 min | 4785 | 12.21 | 10.57 | 4.88 | 11.00 | 9.74 | 8.98 | 8.98 | 8.62 | 7.34 | 9.74 | -1.26 | -11.5% |
| SC-44.18 | 10 min | 4785 | 12.34 | 10.69 | 4.91 | 11.13 | 9.95 | 9.56 | 9.21 | 9.26 | 7.91 | 9.95 | -1.18 | -10.6% |
| SC-44.19 | 10 min | 4785 | 12.57 | 10.93 | 4.97 | 11.38 | 11.42 | 10.99 | 10.08 | 10.47 | 9.06 | 11.42 | 0.04 | 0.4% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-44.20 | 10 min | 4785 | 11.63 | 10.79 | 3.66 | 11.15 | 9.58 | 10.05 | 9.50 | 10.00 | 9.14 | 10.05 | -1.10 | -9.9% |
| SC-45.01 | 10 min | 4354 | 0.90 | 0.90 | 0.06 | 0.92 | 0.92 | 0.96 | 0.85 | 0.58 | 0.48 | 0.96 | 0.04 | 4.0% |
| SC-46.01 | 10 min | 4363 | 0.72 | 0.73 | 0.06 | 0.74 | 0.77 | 0.80 | 0.71 | 0.44 | 0.37 | 0.80 | 0.06 | 8.2% |
| SC-46.02 | 10 min | 4354 | 1.25 | 1.23 | 0.09 | 1.25 | 1.25 | 1.31 | 1.16 | 0.79 | 0.65 | 1.31 | 0.06 | 4.6% |
| SC-46.03 | 10 min | 4354 | 1.87 | 1.87 | 0.13 | 1.90 | 1.90 | 1.99 | 1.76 | 1.18 | 0.99 | 1.99 | 0.09 | 4.5% |
| SC-46.04 | 10 min | 4361 | 2.11 | 2.12 | 0.15 | 2.15 | 2.16 | 2.26 | 2.01 | 1.34 | 1.12 | 2.26 | 0.11 | 5.2% |
| SC-47.01 | 10 min | 4363 | 1.17 | 1.19 | 0.10 | 1.21 | 1.26 | 1.32 | 1.17 | 0.71 | 0.59 | 1.32 | 0.11 | 8.9% |
| SC-48.01 | 10 min | 4363 | 0.88 | 0.90 | 0.07 | 0.91 | 0.95 | 0.99 | 0.88 | 0.53 | 0.44 | 0.99 | 0.08 | 8.9% |
| SC-48.02 | 10 min | 4354 | 1.41 | 1.41 | 0.10 | 1.44 | 1.44 | 1.50 | 1.33 | 0.88 | 0.73 | 1.50 | 0.06 | 4.2% |
| SC-49.01 | 10 min | 4363 | 0.99 | 1.01 | 0.08 | 1.01 | 1.06 | 1.10 | 0.98 | 0.61 | 0.49 | 1.10 | 0.09 | 9.2% |
| SC-5.01 | 10 min | 4354 | 0.63 | 0.63 | 0.04 | 0.64 | 0.64 | 0.66 | 0.59 | 0.40 | 0.33 | 0.66 | 0.02 | 3.8% |
| SC-50.01 | 10 min | 4364 | 0.35 | 0.34 | 0.04 | 0.34 | 0.34 | 0.36 | 0.31 | 0.23 | 0.19 | 0.36 | 0.02 | 4.4% |
| SC-51.01 | 10 min | 4361 | 0.35 | 0.35 | 0.03 | 0.35 | 0.36 | 0.38 | 0.34 | 0.22 | 0.17 | 0.38 | 0.03 | 7.6% |
| SC-52.01 | 10 min | 4368 | 0.35 | 0.35 | 0.03 | 0.36 | 0.37 | 0.38 | 0.34 | 0.22 | 0.17 | 0.38 | 0.02 | 6.7% |
| SC-53.01 | 10 min | 4363 | 0.85 | 0.87 | 0.07 | 0.88 | 0.91 | 0.95 | 0.85 | 0.52 | 0.43 | 0.95 | 0.07 | 8.4% |
| SC-53.02 | 10 min | 4354 | 1.78 | 1.75 | 0.13 | 1.78 | 1.78 | 1.87 | 1.65 | 1.13 | 0.93 | 1.87 | 0.09 | 4.8% |
| SC-53.03 | 10 min | 4361 | 2.13 | 2.14 | 0.15 | 2.17 | 2.17 | 2.27 | 2.02 | 1.36 | 1.14 | 2.27 | 0.10 | 4.7% |
| SC-54.01 | 10 min | 4363 | 0.69 | 0.70 | 0.06 | 0.71 | 0.74 | 0.77 | 0.69 | 0.42 | 0.35 | 0.77 | 0.06 | 8.8% |
| SC-54.02 | 10 min | 4354 | 1.36 | 1.34 | 0.10 | 1.36 | 1.36 | 1.42 | 1.25 | 0.86 | 0.70 | 1.42 | 0.06 | 4.6% |
| SC-55.01 | 10 min | 4363 | 1.07 | 1.09 | 0.09 | 1.11 | 1.15 | 1.20 | 1.07 | 0.65 | 0.54 | 1.20 | 0.09 | 8.3% |
| SC-56.01 | 10 min | 4354 | 0.51 | 0.50 | 0.04 | 0.51 | 0.51 | 0.53 | 0.47 | 0.33 | 0.26 | 0.53 | 0.02 | 4.0% |
| SC-57.01 | 10 min | 4364 | 0.38 | 0.37 | 0.05 | 0.38 | 0.34 | 0.36 | 0.33 | 0.25 | 0.21 | 0.36 | -0.02 | -4.2% |
| SC-58.01 | 10 min | 4363 | 0.70 | 0.71 | 0.06 | 0.72 | 0.76 | 0.79 | 0.70 | 0.43 | 0.35 | 0.79 | 0.07 | 9.9% |
| SC-59.01 | 10 min | 4368 | 0.95 | 0.97 | 0.07 | 0.97 | 1.01 | 1.05 | 0.93 | 0.60 | 0.50 | 1.05 | 0.08 | 8.7% |
| SC-59.02 | 10 min | 4354 | 1.82 | 1.79 | 0.13 | 1.82 | 1.82 | 1.90 | 1.68 | 1.18 | 0.98 | 1.90 | 0.08 | 4.3% |
| SC-59.03 | 10 min | 4354 | 2.64 | 2.62 | 0.19 | 2.66 | 2.66 | 2.79 | 2.47 | 1.71 | 1.41 | 2.79 | 0.13 | 4.8% |
| SC-59.04 | 10 min | 4354 | 3.40 | 3.40 | 0.24 | 3.45 | 3.45 | 3.61 | 3.20 | 2.19 | 1.81 | 3.61 | 0.16 | 4.7% |
| SC-59.05 | 10 min | 4354 | 7.42 | 7.27 | 0.46 | 7.37 | 7.37 | 7.62 | 6.75 | 4.94 | 4.13 | 7.62 | 0.25 | 3.3% |
| SC-59.06 | 10 min | 4354 | 8.61 | 8.42 | 0.45 | 8.47 | 8.47 | 8.41 | 7.62 | 5.83 | 4.92 | 8.47 | 0.00 | 0.0% |
| SC-59.07 | 10 min | 4364 | 14.62 | 14.24 | 0.94 | 14.27 | 14.13 | 14.39 | 12.82 | 10.04 | 8.50 | 14.39 | 0.12 | 0.8% |
| SC-59.08 | 15 min | 4401 | 14.58 | 14.27 | 1.67 | 14.47 | 13.51 | 12.42 | 11.76 | 10.89 | 9.43 | 13.51 | -0.96 | -6.6% |
| SC-59.09 | 15 min | 4401 | 17.54 | 17.51 | 1.36 | 17.75 | 16.11 | 15.18 | 13.68 | 13.41 | 11.97 | 16.11 | -1.64 | -9.2% |
| SC-59.10 | 25 min | 4466 | 15.89 | 16.20 | 1.52 | 16.59 | 9.47 | 12.60 | 12.80 | 14.28 | 12.53 | 14.28 | -2.31 | -13.9% |
| SC-6.01 | 10 min | 4363 | 0.80 | 0.81 | 0.07 | 0.83 | 0.87 | 0.91 | 0.81 | 0.48 | 0.39 | 0.91 | 0.08 | 9.3% |
| SC-60.01 | 10 min | 4364 | 0.66 | 0.67 | 0.08 | 0.67 | 0.57 | 0.60 | 0.58 | 0.46 | 0.38 | 0.60 | -0.07 | -10.7% |
| SC-60.02 | 10 min | 4364 | 2.66 | 2.61 | 0.25 | 2.63 | 2.49 | 2.62 | 2.31 | 1.79 | 1.49 | 2.62 | -0.01 | -0.3% |
| SC-61.01 | 10 min | 4364 | 1.39 | 1.35 | 0.12 | 1.36 | 1.32 | 1.38 | 1.23 | 0.91 | 0.75 | 1.38 | 0.02 | 1.2% |
| SC-62.01 | 10 min | 4368 | 0.83 | 0.85 | 0.07 | 0.85 | 0.88 | 0.92 | 0.82 | 0.51 | 0.41 | 0.92 | 0.07 | 7.9% |
| SC-63.01 | 10 min | 4364 | 0.49 | 0.49 | 0.06 | 0.50 | 0.42 | 0.44 | 0.42 | 0.33 | 0.27 | 0.44 | -0.06 | -11.1% |
| SC-64.01 | 10 min | 4363 | 0.62 | 0.64 | 0.05 | 0.65 | 0.67 | 0.71 | 0.62 | 0.38 | 0.31 | 0.71 | 0.06 | 8.6% |
| SC-64.02 | 10 min | 4354 | 2.16 | 2.12 | 0.16 | 2.15 | 2.15 | 2.26 | 1.99 | 1.40 | 1.17 | 2.26 | 0.11 | 4.9% |
| SC-64.03 | 10 min | 4354 | 4.03 | 3.99 | 0.28 | 4.05 | 4.05 | 4.24 | 3.75 | 2.62 | 2.18 | 4.24 | 0.19 | 4.7% |
| SC-64.04 | 10 min | 4354 | 5.76 | 5.61 | 0.41 | 5.70 | 5.70 | 5.92 | 5.23 | 3.90 | 3.26 | 5.92 | 0.22 | 3.8% |
| SC-65.01 | 10 min | 4363 | 0.49 | 0.50 | 0.04 | 0.50 | 0.52 | 0.55 | 0.48 | 0.30 | 0.25 | 0.55 | 0.05 | 9.2% |
| SC-66.01 | 10 min | 4354 | 0.40 | 0.39 | 0.03 | 0.39 | 0.39 | 0.41 | 0.36 | 0.26 | 0.21 | 0.41 | 0.02 | 4.2% |
| SC-66.02 | 10 min | 4364 | 0.98 | 0.99 | 0.11 | 1.00 | 0.86 | 0.85 | 0.87 | 0.70 | 0.58 | 0.87 | -0.13 | -13.1% |
| SC-67.01 | 10 min | 4363 | 0.69 | 0.71 | 0.06 | 0.72 | 0.75 | 0.78 | 0.70 | 0.42 | 0.34 | 0.78 | 0.06 | 8.6% |
| SC-68.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.98 | 1.02 | 1.07 | 0.95 | 0.58 | 0.48 | 1.07 | 0.09 | 8.8% |
| SC-68.02 | 10 min | 4354 | 1.84 | 1.83 | 0.14 | 1.86 | 1.86 | 1.95 | 1.72 | 1.17 | 0.95 | 1.95 | 0.09 | 4.9% |
| SC-68.03 | 10 min | 4365 | 3.31 | 3.35 | 0.25 | 3.37 | 3.47 | 3.63 | 3.22 | 2.08 | 1.70 | 3.63 | 0.26 | 7.6% |
| SC-69.01 | 10 min | 4363 | 0.81 | 0.82 | 0.07 | 0.85 | 0.89 | 0.93 | 0.83 | 0.49 | 0.39 | 0.93 | 0.08 | 9.2% |
| SC-7.01 | 10 min | 4361 | 1.10 | 1.10 | 0.07 | 1.12 | 1.12 | 1.18 | 1.04 | 0.71 | 0.59 | 1.18 | 0.05 | 4.9% |
| SC-70.01 | 10 min | 4368 | 0.76 | 0.77 | 0.06 | 0.77 | 0.80 | 0.84 | 0.74 | 0.47 | 0.37 | 0.84 | 0.07 | 8.5% |
| SC-70.02 | 10 min | 4354 | 1.22 | 1.22 | 0.09 | 1.24 | 1.24 | 1.30 | 1.15 | 0.77 | 0.63 | 1.30 | 0.06 | 4.6% |
| SC-71.01 | 10 min | 4363 | 0.95 | 0.97 | 0.08 | 0.98 | 1.02 | 1.06 | 0.95 | 0.58 | 0.48 | 1.06 | 0.08 | 8.6% |
| SC-71.02 | 10 min | 4354 | 1.85 | 1.83 | 0.13 | 1.86 | 1.86 | 1.95 | 1.72 | 1.18 | 0.97 | 1.95 | 0.09 | 4.8% |
| SC-72.01 | 10 min | 4363 | 1.02 | 1.04 | 0.09 | 1.06 | 1.10 | 1.15 | 1.02 | 0.62 | 0.51 | 1.15 | 0.09 | 8.6% |
| SC-73.01 | 10 min | 4363 | 0.84 | 0.85 | 0.07 | 0.85 | 0.89 | 0.93 | 0.83 | 0.51 | 0.43 | 0.93 | 0.08 | 9.5% |
| SC-74.01 | 10 min | 4363 | 0.96 | 0.97 | 0.08 | 0.99 | 1.03 | 1.08 | 0.96 | 0.58 | 0.48 | 1.08 | 0.09 | 8.9% |
| SC-75.01 | 10 min | 4364 | 0.60 | 0.58 | 0.06 | 0.58 | 0.56 | 0.58 | 0.52 | 0.39 | 0.32 | 0.58 | 0.00 | 0.6% |
| SC-75.02 | 10 min | 4364 | 2.40 | 2.37 | 0.25 | 2.40 | 2.22 | 2.33 | 2.08 | 1.62 | 1.34 | 2.33 | -0.07 | -2.7% |
| SC-75.03 | 10 min | 4364 | 3.45 | 3.37 | 0.28 | 3.41 | 3.26 | 3.42 | 3.03 | 2.32 | 1.94 | 3.42 | 0.01 | 0.2% |
| SC-75.04 | 10 min | 4354 | 5.94 | 5.75 | 0.45 | 5.76 | 5.76 | 6.00 | 5.30 | 3.96 | 3.30 | 6.00 | 0.24 | 4.2% |
| SC-76.01 | 10 min | 4364 | 0.81 | 0.82 | 0.10 | 0.83 | 0.70 | 0.69 | 0.69 | 0.56 | 0.46 | 0.70 | -0.13 | -16.0% |
| SC-77.01 | 10 min | 4363 | 1.12 | 1.15 | 0.09 | 1.16 | 1.21 | 1.27 | 1.12 | 0.68 | 0.57 | 1.27 | 0.11 | 9.1% |
| SC-77.02 | 10 min | 4363 | 1.70 | 1.73 | 0.14 | 1.75 | 1.83 | 1.91 | 1.70 | 1.03 | 0.85 | 1.91 | 0.16 | 9.1% |
| SC-77.03 | 10 min | 4361 | 2.42 | 2.44 | 0.18 | 2.45 | 2.50 | 2.61 | 2.32 | 1.50 | 1.24 | 2.61 | 0.16 | 6.6% |
| SC-78.01 | 10 min | 4363 | 1.06 | 1.08 | 0.09 | 1.10 | 1.15 | 1.20 | 1.06 | 0.64 | 0.53 | 1.20 | 0.10 | 8.8% |

## ARR2019 Results for 0.2%AEP Event

| Subcatch ID | ARR2019 Discharge Statistics for All Durations and Temp. Patterns | | | | | | Peak Discharge for the Reduced Set of Durations and Temporal Patterns ($m^3/s$) | | | | | Max of the Reduced Set ($m^3/s$) | Difference between the Reduced Set and Adopted | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Temp. Pattern | Discharge ($m^3/s$) | | | | 10 min | 20 min | 20 min | 45 min | 120 min | | | |
| | | | Average | Median | Standard Dev | Adopted | 4354 | 4396 | 4371 | 4533 | 4431 | | $m^3/s$ | % |
| SC-79.01 | 10 min | 4365 | 1.14 | 1.15 | 0.09 | 1.16 | 1.19 | 1.25 | 1.11 | 0.76 | 0.61 | 1.25 | 0.09 | 7.3% |
| SC-79.02 | 10 min | 4365 | 2.11 | 2.15 | 0.17 | 2.16 | 2.22 | 2.33 | 2.07 | 1.42 | 1.11 | 2.33 | 0.17 | 7.7% |
| SC-79.03 | 10 min | 4361 | 4.71 | 4.76 | 0.34 | 4.79 | 4.85 | 5.01 | 4.47 | 3.08 | 2.51 | 5.01 | 0.22 | 4.6% |
| SC-8.01 | 10 min | 4354 | 0.93 | 0.93 | 0.06 | 0.94 | 0.94 | 0.99 | 0.88 | 0.59 | 0.49 | 0.99 | 0.05 | 4.8% |
| SC-8.02 | 10 min | 4354 | 2.26 | 2.20 | 0.16 | 2.24 | 2.24 | 2.35 | 2.07 | 1.47 | 1.23 | 2.35 | 0.11 | 4.7% |
| SC-8.03 | 10 min | 4354 | 5.74 | 5.72 | 0.38 | 5.81 | 5.81 | 6.08 | 5.38 | 3.74 | 3.13 | 6.08 | 0.27 | 4.6% |
| SC-8.04 | 10 min | 4361 | 10.12 | 10.19 | 0.71 | 10.30 | 10.38 | 10.87 | 9.62 | 6.57 | 5.49 | 10.87 | 0.57 | 5.5% |
| SC-8.05 | 10 min | 4365 | 11.01 | 11.08 | 0.69 | 11.15 | 11.44 | 11.80 | 10.54 | 7.32 | 6.18 | 11.80 | 0.65 | 5.8% |
| SC-8.06 | 10 min | 4363 | 11.40 | 11.45 | 0.61 | 11.55 | 11.94 | 12.15 | 10.93 | 7.72 | 6.55 | 12.15 | 0.60 | 5.2% |
| SC-80.01 | 10 min | 4363 | 1.11 | 1.13 | 0.09 | 1.14 | 1.19 | 1.24 | 1.10 | 0.67 | 0.56 | 1.24 | 0.10 | 8.9% |
| SC-80.02 | 10 min | 4354 | 2.25 | 2.24 | 0.16 | 2.27 | 2.27 | 2.38 | 2.10 | 1.42 | 1.17 | 2.38 | 0.11 | 4.7% |
| SC-81.01 | 10 min | 4354 | 0.85 | 0.84 | 0.06 | 0.85 | 0.85 | 0.89 | 0.79 | 0.54 | 0.44 | 0.89 | 0.04 | 4.5% |
| SC-81.02 | 10 min | 4354 | 2.50 | 2.47 | 0.18 | 2.50 | 2.50 | 2.62 | 2.33 | 1.58 | 1.30 | 2.62 | 0.12 | 4.6% |
| SC-82.01 | 10 min | 4363 | 0.99 | 1.01 | 0.08 | 1.01 | 1.06 | 1.10 | 0.98 | 0.60 | 0.50 | 1.10 | 0.09 | 9.3% |
| SC-83.01 | 10 min | 4363 | 0.63 | 0.64 | 0.05 | 0.64 | 0.67 | 0.70 | 0.62 | 0.38 | 0.32 | 0.70 | 0.06 | 9.3% |
| SC-84.01 | 10 min | 4365 | 0.94 | 0.95 | 0.07 | 0.96 | 0.98 | 1.03 | 0.91 | 0.58 | 0.48 | 1.03 | 0.07 | 7.0% |
| SC-84.02 | 10 min | 4365 | 2.31 | 2.35 | 0.18 | 2.37 | 2.44 | 2.55 | 2.26 | 1.45 | 1.20 | 2.55 | 0.18 | 7.6% |
| SC-84.03 | 10 min | 4365 | 3.07 | 3.10 | 0.23 | 3.11 | 3.20 | 3.35 | 2.97 | 1.93 | 1.60 | 3.35 | 0.24 | 7.7% |
| SC-84.04 | 10 min | 4361 | 3.65 | 3.68 | 0.28 | 3.69 | 3.79 | 3.97 | 3.51 | 2.30 | 1.90 | 3.97 | 0.28 | 7.5% |
| SC-84.05 | 10 min | 4365 | 4.33 | 4.38 | 0.25 | 4.40 | 4.51 | 4.59 | 4.12 | 2.84 | 2.35 | 4.59 | 0.19 | 4.2% |
| SC-84.06 | 10 min | 4363 | 4.77 | 4.81 | 0.20 | 4.82 | 4.94 | 4.89 | 4.46 | 3.21 | 2.66 | 4.94 | 0.12 | 2.5% |
| SC-85.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.59 | 0.62 | 0.64 | 0.57 | 0.36 | 0.29 | 0.64 | 0.05 | 8.9% |
| SC-86.01 | 10 min | 4363 | 0.88 | 0.90 | 0.07 | 0.91 | 0.95 | 0.99 | 0.88 | 0.53 | 0.44 | 0.99 | 0.08 | 9.1% |
| SC-86.02 | 10 min | 4365 | 1.72 | 1.75 | 0.13 | 1.76 | 1.82 | 1.90 | 1.69 | 1.25 | 0.95 | 1.90 | 0.14 | 7.8% |
| SC-87.01 | 10 min | 4363 | 1.29 | 1.31 | 0.11 | 1.33 | 1.39 | 1.45 | 1.29 | 0.77 | 0.65 | 1.45 | 0.12 | 9.2% |
| SC-87.02 | 10 min | 4365 | 2.20 | 2.22 | 0.16 | 2.22 | 2.29 | 2.39 | 2.13 | 1.37 | 1.14 | 2.39 | 0.17 | 7.7% |
| SC-88.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.60 | 0.62 | 0.65 | 0.58 | 0.36 | 0.30 | 0.65 | 0.05 | 8.2% |
| SC-88.02 | 10 min | 4365 | 0.97 | 0.97 | 0.06 | 0.97 | 1.00 | 1.05 | 0.93 | 0.66 | 0.54 | 1.05 | 0.08 | 8.2% |
| SC-89.01 | 10 min | 4363 | 0.63 | 0.65 | 0.05 | 0.66 | 0.69 | 0.72 | 0.63 | 0.38 | 0.32 | 0.72 | 0.06 | 8.6% |
| SC-89.02 | 10 min | 4365 | 0.71 | 0.72 | 0.05 | 0.72 | 0.74 | 0.78 | 0.69 | 0.45 | 0.37 | 0.78 | 0.06 | 8.0% |
| SC-9.01 | 10 min | 4363 | 0.83 | 0.85 | 0.07 | 0.86 | 0.89 | 0.93 | 0.83 | 0.51 | 0.42 | 0.93 | 0.07 | 8.6% |
| SC-90.01 | 10 min | 4363 | 0.26 | 0.26 | 0.02 | 0.26 | 0.27 | 0.29 | 0.25 | 0.16 | 0.13 | 0.29 | 0.03 | 10.7% |
| SC-91.01 | 10 min | 4363 | 0.74 | 0.75 | 0.06 | 0.78 | 0.81 | 0.85 | 0.75 | 0.45 | 0.36 | 0.85 | 0.07 | 8.7% |
| SC-91.02 | 10 min | 4363 | 1.56 | 1.59 | 0.14 | 1.60 | 1.67 | 1.75 | 1.55 | 0.97 | 0.78 | 1.75 | 0.15 | 9.3% |
| SC-92.01 | 10 min | 4354 | 0.76 | 0.77 | 0.05 | 0.78 | 0.78 | 0.81 | 0.72 | 0.48 | 0.40 | 0.81 | 0.03 | 4.1% |
| SC-92.02 | 10 min | 4354 | 2.18 | 2.12 | 0.16 | 2.15 | 2.15 | 2.26 | 1.99 | 1.45 | 1.21 | 2.26 | 0.11 | 5.0% |
| SC-93.01 | 10 min | 4363 | 0.82 | 0.83 | 0.06 | 0.83 | 0.87 | 0.91 | 0.81 | 0.50 | 0.42 | 0.91 | 0.08 | 9.3% |
| SC-94.01 | 10 min | 4363 | 0.89 | 0.90 | 0.08 | 0.93 | 0.96 | 1.01 | 0.90 | 0.54 | 0.43 | 1.01 | 0.08 | 8.3% |
| SC-94.02 | 10 min | 4368 | 2.10 | 2.15 | 0.17 | 2.15 | 2.23 | 2.33 | 2.07 | 1.31 | 1.07 | 2.33 | 0.18 | 8.5% |
| SC-95.01 | 10 min | 4363 | 0.52 | 0.53 | 0.05 | 0.55 | 0.57 | 0.60 | 0.53 | 0.32 | 0.25 | 0.60 | 0.05 | 8.4% |
| SC-95.02 | 10 min | 4363 | 1.27 | 1.30 | 0.11 | 1.32 | 1.37 | 1.44 | 1.28 | 0.78 | 0.63 | 1.44 | 0.12 | 8.7% |
| SC-96.01 | 10 min | 4363 | 0.58 | 0.59 | 0.05 | 0.61 | 0.64 | 0.66 | 0.59 | 0.36 | 0.29 | 0.66 | 0.05 | 9.0% |
| SC-97.01 | 10 min | 4363 | 0.40 | 0.40 | 0.03 | 0.42 | 0.43 | 0.45 | 0.40 | 0.24 | 0.19 | 0.45 | 0.03 | 8.0% |
| SC-97.02 | 10 min | 4361 | 2.33 | 2.35 | 0.17 | 2.38 | 2.40 | 2.51 | 2.22 | 1.51 | 1.24 | 2.51 | 0.13 | 5.3% |
| SC-98.01 | 10 min | 4363 | 0.69 | 0.71 | 0.06 | 0.72 | 0.75 | 0.78 | 0.69 | 0.42 | 0.35 | 0.78 | 0.06 | 8.4% |
| SC-99.01 | 10 min | 4363 | 0.67 | 0.68 | 0.06 | 0.69 | 0.72 | 0.75 | 0.67 | 0.41 | 0.33 | 0.75 | 0.06 | 9.0% |
| SC-99.02 | 10 min | 4354 | 1.87 | 1.86 | 0.14 | 1.89 | 1.89 | 1.98 | 1.75 | 1.19 | 0.96 | 1.98 | 0.09 | 4.7% |
| SC-99.03 | 10 min | 4354 | 3.24 | 3.18 | 0.24 | 3.23 | 3.23 | 3.38 | 2.99 | 2.06 | 1.69 | 3.38 | 0.15 | 4.8% |
| SC-99.04 | 10 min | 4361 | 8.56 | 8.61 | 0.57 | 8.69 | 8.78 | 9.10 | 8.09 | 5.58 | 4.66 | 9.10 | 0.41 | 4.7% |
| Dummy1 | 10 min | 4364 | 43.92 | 43.76 | 0.98 | 43.86 | 43.06 | 39.43 | 37.19 | 32.34 | 28.28 | 43.06 | -0.80 | -1.8% |
| Dummy2 | 25 min | 4394 | 68.95 | 68.00 | 4.48 | 68.45 | 57.54 | 65.77 | 72.55 | 63.39 | 53.78 | 72.55 | 4.10 | 6.0% |
| Dummy3 | 30 min | 4497 | 132.32 | 131.38 | 8.83 | 131.96 | 107.52 | 120.25 | 117.85 | 121.90 | 112.24 | 121.90 | -10.06 | -7.6% |
| DummyOut | 1.50 hour | 4395 | 142.64 | 139.79 | 13.55 | 139.93 | 108.05 | 121.08 | 119.03 | 124.30 | 144.68 | 144.68 | 4.75 | 3.4% |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-1.01 | 15 min | 3.43 |
| SC-1.02 | 15 min | 7.68 |
| SC-1.03 | 15 min | 9.07 |
| SC-1.04 | 15 min | 25.67 |
| SC-1.05 | 15 min | 28.11 |
| SC-1.06 | 15 min | 33.26 |
| SC-1.07 | 15 min | 34.12 |
| SC-1.08 | 30 min | 52.56 |
| SC-1.09 | 45 min | 58.08 |
| SC-1.10 | 45 min | 59.18 |
| SC-1.11 | 45 min | 79.43 |
| SC-1.12 | 45 min | 87.39 |
| SC-1.13 | 45 min | 94.2 |
| SC-1.14 | 15 min | 109.25 |
| SC-1.15 | 15 min | 119.44 |
| SC-1.16 | 15 min | 133.98 |
| SC-1.17 | 15 min | 135.93 |
| SC-1.18 | 1.50 hour | 111.8 |
| SC-1.19 | 1.50 hour | 197 |
| SC-1.20 | 1.50 hour | 199.3 |
| SC-1.21 | 1.50 hour | 201.12 |
| SC-1.22 | 1.50 hour | 203.88 |
| SC-1.23 | 2 hours | 212.56 |
| SC-1.24 | 2 hours | 231.4 |
| SC-1.25 | 2 hours | 232.97 |
| SC-1.26 | 2 hours | 238.04 |
| SC-1.27 | 2 hours | 239.39 |
| SC-1.28 | 2.50 hours | 263.65 |
| SC-1.29 | 2.50 hours | 271.94 |
| SC-1.30 | 2.50 hours | 274.32 |
| SC-1.31 | 2.50 hours | 275.98 |
| SC-1.32 | 2.50 hours | 278.74 |
| SC-1.33 | 2.50 hours | 285.41 |
| SC-1.34 | 2.50 hours | 287.13 |
| SC-1.35 | 2.50 hours | 288.85 |
| SC-1.36 | 2.50 hours | 298.86 |
| SC-10.01 | 15 min | 3.84 |
| SC-100.01 | 15 min | 3.83 |
| SC-100.02 | 15 min | 6.87 |
| SC-101.01 | 15 min | 4.35 |
| SC-101.02 | 15 min | 7.91 |
| SC-102.01 | 15 min | 3.23 |
| SC-102.02 | 15 min | 13.49 |
| SC-103.01 | 15 min | 2.19 |
| SC-103.02 | 15 min | 8.2 |
| SC-104.01 | 15 min | 2.01 |
| SC-105.01 | 15 min | 2.45 |
| SC-105.02 | 15 min | 6.12 |
| SC-105.03 | 15 min | 14.25 |
| SC-105.04 | 15 min | 19.38 |
| SC-105.05 | 15 min | 24.12 |
| SC-105.06 | 15 min | 27.27 |
| SC-105.07 | 15 min | 41.52 |
| SC-105.08 | 15 min | 48.14 |
| SC-105.09 | 15 min | 62.17 |
| SC-106.01 | 15 min | 1.75 |
| SC-107.01 | 15 min | 3.13 |
| SC-108.01 | 15 min | 2.15 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-109.01 | 15 min | 2.87 |
| SC-11.01 | 15 min | 2.41 |
| SC-110.01 | 15 min | 2.63 |
| SC-110.02 | 15 min | 6.46 |
| SC-110.03 | 15 min | 7.15 |
| SC-111.01 | 15 min | 2.56 |
| SC-112.01 | 15 min | 4.47 |
| SC-113.01 | 15 min | 1.65 |
| SC-113.02 | 15 min | 5.72 |
| SC-114.01 | 15 min | 3.03 |
| SC-114.02 | 15 min | 4.62 |
| SC-114.03 | 15 min | 9.58 |
| SC-115.01 | 15 min | 2.55 |
| SC-115.02 | 15 min | 4.21 |
| SC-116.01 | 15 min | 2.53 |
| SC-116.02 | 15 min | 4.26 |
| SC-117.01 | 15 min | 1.5 |
| SC-118.01 | 15 min | 2.77 |
| SC-119.01 | 15 min | 4.45 |
| SC-119.02 | 15 min | 11.44 |
| SC-12.01 | 15 min | 2.43 |
| SC-12.02 | 15 min | 4.14 |
| SC-12.03 | 15 min | 8.3 |
| SC-12.04 | 15 min | 10.91 |
| SC-120.01 | 15 min | 2.05 |
| SC-121.01 | 15 min | 2.51 |
| SC-122.01 | 15 min | 3.81 |
| SC-122.02 | 15 min | 6.45 |
| SC-122.03 | 15 min | 8.77 |
| SC-123.01 | 15 min | 2.01 |
| SC-123.02 | 15 min | 6.06 |
| SC-123.03 | 15 min | 44.93 |
| SC-123.04 | 15 min | 45.78 |
| SC-123.05 | 15 min | 57.79 |
| SC-123.06 | 15 min | 59.87 |
| SC-123.07 | 15 min | 65.01 |
| SC-124.01 | 15 min | 3.25 |
| SC-124.02 | 15 min | 20.26 |
| SC-125.01 | 15 min | 4.51 |
| SC-126.01 | 15 min | 1.85 |
| SC-126.02 | 15 min | 5.83 |
| SC-126.03 | 15 min | 10.16 |
| SC-127.01 | 15 min | 4.24 |
| SC-127.02 | 15 min | 11.89 |
| SC-128.01 | 15 min | 4.27 |
| SC-129.01 | 15 min | 2.37 |
| SC-13.01 | 15 min | 2.5 |
| SC-130.01 | 15 min | 3.2 |
| SC-131.01 | 15 min | 1.25 |
| SC-132.01 | 15 min | 1.83 |
| SC-133.01 | 15 min | 1.29 |
| SC-134.01 | 15 min | 1.12 |
| SC-134.02 | 15 min | 4.25 |
| SC-134.03 | 15 min | 8.47 |
| SC-134.04 | 15 min | 11.98 |
| SC-135.01 | 15 min | 1.02 |
| SC-135.02 | 15 min | 5.85 |
| SC-135.03 | 15 min | 7.82 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-135.04 | 15 min | 17.28 |
| SC-135.05 | 15 min | 19.64 |
| SC-135.06 | 15 min | 31.47 |
| SC-136.01 | 15 min | 2.84 |
| SC-137.01 | 15 min | 3.08 |
| SC-138.01 | 15 min | 3.36 |
| SC-139.01 | 15 min | 3.22 |
| SC-139.02 | 15 min | 4.02 |
| SC-14.01 | 15 min | 4.31 |
| SC-14.02 | 15 min | 7.02 |
| SC-14.03 | 15 min | 9.27 |
| SC-140.01 | 15 min | 2.29 |
| SC-141.01 | 15 min | 4.25 |
| SC-142.01 | 15 min | 7.37 |
| SC-143.01 | 15 min | 2.54 |
| SC-143.02 | 15 min | 20.25 |
| SC-144.01 | 15 min | 2.68 |
| SC-144.02 | 15 min | 4.05 |
| SC-144.03 | 15 min | 5.75 |
| SC-144.04 | 15 min | 10.14 |
| SC-144.05 | 15 min | 17.83 |
| SC-145.01 | 15 min | 3.36 |
| SC-145.02 | 15 min | 6.28 |
| SC-146.01 | 15 min | 8.76 |
| SC-147.01 | 15 min | 3.87 |
| SC-147.02 | 15 min | 5.4 |
| SC-147.03 | 15 min | 13.4 |
| SC-148.01 | 15 min | 2.8 |
| SC-148.02 | 15 min | 6.88 |
| SC-149.01 | 15 min | 2.16 |
| SC-149.02 | 15 min | 7.55 |
| SC-15.01 | 15 min | 4.47 |
| SC-15.02 | 15 min | 5.96 |
| SC-15.03 | 15 min | 9.66 |
| SC-150.01 | 15 min | 2.34 |
| SC-150.02 | 15 min | 4.77 |
| SC-150.03 | 15 min | 12.29 |
| SC-150.04 | 15 min | 16.2 |
| SC-150.05 | 15 min | 22.96 |
| SC-150.06 | 15 min | 43.35 |
| SC-150.07 | 15 min | 70.17 |
| SC-150.08 | 30 min | 79.47 |
| SC-150.09 | 30 min | 85.16 |
| SC-150.10 | 30 min | 102.59 |
| SC-150.11 | 30 min | 133.14 |
| SC-150.12 | 30 min | 163.37 |
| SC-150.13 | 30 min | 178.6 |
| SC-150.14 | 30 min | 238.08 |
| SC-150.15 | 30 min | 240.74 |
| SC-150.16 | 45 min | 250.39 |
| SC-150.17 | 45 min | 255.94 |
| SC-151.01 | 15 min | 3.1 |
| SC-151.02 | 15 min | 4.98 |
| SC-152.01 | 15 min | 2.83 |
| SC-153.01 | 15 min | 2.37 |
| SC-153.02 | 15 min | 5.63 |
| SC-154.01 | 15 min | 4.31 |
| SC-154.02 | 15 min | 15.19 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-155.01 | 15 min | 1.75 |
| SC-155.02 | 15 min | 4.84 |
| SC-156.01 | 15 min | 1.75 |
| SC-157.01 | 15 min | 2.11 |
| SC-158.01 | 15 min | 2.99 |
| SC-158.02 | 15 min | 4.04 |
| SC-158.03 | 15 min | 8.91 |
| SC-158.04 | 15 min | 15.72 |
| SC-159.01 | 15 min | 2.39 |
| SC-16.01 | 15 min | 2.87 |
| SC-160.01 | 15 min | 2.06 |
| SC-160.02 | 15 min | 4.89 |
| SC-161.01 | 15 min | 2.47 |
| SC-161.02 | 15 min | 4.92 |
| SC-162.01 | 15 min | 3.35 |
| SC-163.01 | 15 min | 2.23 |
| SC-163.02 | 15 min | 4.15 |
| SC-163.03 | 15 min | 6.7 |
| SC-163.04 | 15 min | 9.13 |
| SC-163.05 | 15 min | 15.62 |
| SC-164.01 | 15 min | 3 |
| SC-165.01 | 15 min | 2.55 |
| SC-165.02 | 15 min | 6.63 |
| SC-165.03 | 15 min | 8.73 |
| SC-165.04 | 15 min | 19.79 |
| SC-165.05 | 15 min | 33.26 |
| SC-166.01 | 15 min | 2.34 |
| SC-167.01 | 15 min | 3.35 |
| SC-167.02 | 15 min | 8.89 |
| SC-168.01 | 15 min | 2.74 |
| SC-169.01 | 15 min | 2.59 |
| SC-169.02 | 15 min | 4.85 |
| SC-169.03 | 15 min | 10.79 |
| SC-17.01 | 15 min | 2.5 |
| SC-17.02 | 15 min | 4.56 |
| SC-17.03 | 15 min | 7.71 |
| SC-17.04 | 15 min | 19.01 |
| SC-17.05 | 15 min | 26.75 |
| SC-17.06 | 15 min | 30.99 |
| SC-17.07 | 15 min | 33.69 |
| SC-170.01 | 15 min | 2.3 |
| SC-171.01 | 15 min | 1.36 |
| SC-172.01 | 15 min | 3.13 |
| SC-172.02 | 15 min | 5.61 |
| SC-173.01 | 30 min | 4.34 |
| SC-173.02 | 15 min | 7.91 |
| SC-173.03 | 30 min | 8.23 |
| SC-173.04 | 15 min | 12.22 |
| SC-173.05 | 15 min | 14.36 |
| SC-174.01 | 15 min | 2 |
| SC-175.01 | 15 min | 3.58 |
| SC-175.02 | 15 min | 7.57 |
| SC-175.03 | 15 min | 12.27 |
| SC-175.04 | 15 min | 15.56 |
| SC-175.05 | 15 min | 18.17 |
| SC-176.01 | 15 min | 1.85 |
| SC-177.01 | 15 min | 2.02 |
| SC-177.02 | 15 min | 5.74 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-177.03 | 15 min | 15.77 |
| SC-177.04 | 15 min | 20.93 |
| SC-178.01 | 15 min | 4.43 |
| SC-178.02 | 15 min | 7.02 |
| SC-179.01 | 15 min | 3.19 |
| SC-18.01 | 15 min | 2.86 |
| SC-18.02 | 15 min | 4.79 |
| SC-180.01 | 15 min | 3.08 |
| SC-180.02 | 15 min | 5.54 |
| SC-180.03 | 15 min | 7.85 |
| SC-180.04 | 15 min | 11.12 |
| SC-181.01 | 15 min | 1.68 |
| SC-181.02 | 15 min | 4.79 |
| SC-181.03 | 15 min | 7.72 |
| SC-181.04 | 15 min | 14.99 |
| SC-181.05 | 15 min | 16.77 |
| SC-181.06 | 15 min | 18.52 |
| SC-181.07 | 15 min | 41.09 |
| SC-181.08 | 15 min | 42.63 |
| SC-182.01 | 15 min | 2.19 |
| SC-182.02 | 15 min | 3.73 |
| SC-182.03 | 15 min | 6.63 |
| SC-183.01 | 15 min | 2.38 |
| SC-183.02 | 15 min | 5.08 |
| SC-183.03 | 15 min | 12.64 |
| SC-183.04 | 15 min | 14.94 |
| SC-184.01 | 15 min | 5.14 |
| SC-185.01 | 15 min | 2.95 |
| SC-185.02 | 15 min | 6.86 |
| SC-186.01 | 15 min | 1.1 |
| SC-187.01 | 15 min | 3.38 |
| SC-187.02 | 15 min | 6.91 |
| SC-187.03 | 15 min | 8.2 |
| SC-187.04 | 15 min | 10.53 |
| SC-187.05 | 15 min | 12.18 |
| SC-188.01 | 15 min | 3.15 |
| SC-188.02 | 15 min | 4.89 |
| SC-189.01 | 15 min | 3.55 |
| SC-189.02 | 15 min | 6.5 |
| SC-19.01 | 15 min | 1.9 |
| SC-190.01 | 15 min | 1.59 |
| SC-191.01 | 15 min | 3.23 |
| SC-191.02 | 15 min | 4.89 |
| SC-191.03 | 15 min | 8.98 |
| SC-191.04 | 15 min | 12.98 |
| SC-191.05 | 15 min | 18.07 |
| SC-191.06 | 15 min | 31.71 |
| SC-191.07 | 15 min | 39.11 |
| SC-191.08 | 15 min | 44.06 |
| SC-192.01 | 15 min | 9.42 |
| SC-193.01 | 15 min | 4.3 |
| SC-194.01 | 15 min | 4.96 |
| SC-194.02 | 15 min | 22.91 |
| SC-194.03 | 15 min | 24.79 |
| SC-195.01 | 15 min | 8.14 |
| SC-196.01 | 15 min | 14.64 |
| SC-197.01 | 15 min | 10.67 |
| SC-198.01 | 15 min | 11.86 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-2.01 | 15 min | 2.28 |
| SC-20.01 | 15 min | 2.24 |
| SC-200.01 | 15 min | 2.95 |
| SC-200.02 | 15 min | 5.11 |
| SC-200.03 | 15 min | 9.84 |
| SC-200.04 | 15 min | 15.13 |
| SC-200.05 | 15 min | 24.16 |
| SC-200.06 | 15 min | 41.03 |
| SC-200.07 | 15 min | 49.25 |
| SC-200.08 | 15 min | 57.3 |
| SC-200.09 | 15 min | 83.94 |
| SC-201.01 | 15 min | 3.51 |
| SC-202.01 | 15 min | 3.52 |
| SC-203.01 | 15 min | 3.72 |
| SC-204.01 | 15 min | 5.52 |
| SC-205.01 | 15 min | 2.6 |
| SC-206.01 | 15 min | 19.09 |
| SC-207.01 | 15 min | 3.55 |
| SC-207.02 | 15 min | 7.13 |
| SC-207.03 | 15 min | 8.15 |
| SC-207.04 | 15 min | 23.38 |
| SC-207.05 | 15 min | 31.7 |
| SC-207.06 | 15 min | 34.34 |
| SC-207.07 | 15 min | 58.68 |
| SC-207.08 | 15 min | 88.51 |
| SC-207.09 | 15 min | 102.23 |
| SC-207.10 | 15 min | 105.91 |
| SC-207.11 | 15 min | 114 |
| SC-207.12 | 15 min | 162.68 |
| SC-207.13 | 15 min | 172.84 |
| SC-207.14 | 15 min | 177.74 |
| SC-208.01 | 15 min | 3.56 |
| SC-208.02 | 15 min | 5.3 |
| SC-208.03 | 15 min | 7.17 |
| SC-208.04 | 15 min | 11.77 |
| SC-208.05 | 15 min | 14.03 |
| SC-209.01 | 15 min | 2.44 |
| SC-21.01 | 15 min | 3.12 |
| SC-210.01 | 15 min | 5.19 |
| SC-210.02 | 15 min | 7.45 |
| SC-211.01 | 15 min | 2.68 |
| SC-211.02 | 15 min | 6.19 |
| SC-211.03 | 15 min | 9.54 |
| SC-211.04 | 15 min | 11.02 |
| SC-212.01 | 45 min | 1.27 |
| SC-212.02 | 30 min | 2.03 |
| SC-213.01 | 15 min | 2.1 |
| SC-213.02 | 15 min | 3.62 |
| SC-214.01 | 15 min | 2.64 |
| SC-214.02 | 15 min | 5.65 |
| SC-215.01 | 15 min | 2.16 |
| SC-215.02 | 15 min | 3.99 |
| SC-216.01 | 15 min | 1.88 |
| SC-216.02 | 15 min | 5.96 |
| SC-216.03 | 15 min | 9.7 |
| SC-216.04 | 15 min | 14.69 |
| SC-217.01 | 15 min | 1.35 |
| SC-218.01 | 15 min | 1.03 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-219.01 | 15 min | 1.37 |
| SC-22.01 | 15 min | 1.77 |
| SC-220.01 | 15 min | 2.16 |
| SC-221.01 | 15 min | 2.01 |
| SC-221.02 | 15 min | 4.59 |
| SC-221.03 | 15 min | 5.71 |
| SC-221.04 | 15 min | 8.25 |
| SC-221.05 | 15 min | 10.81 |
| SC-221.06 | 15 min | 11.65 |
| SC-222.01 | 15 min | 2.18 |
| SC-222.02 | 15 min | 3.62 |
| SC-222.03 | 15 min | 8.99 |
| SC-223.01 | 15 min | 0.94 |
| SC-224.01 | 15 min | 3.52 |
| SC-225.01 | 15 min | 1.74 |
| SC-226.01 | 15 min | 1.25 |
| SC-226.02 | 15 min | 3.16 |
| SC-226.03 | 15 min | 6.65 |
| SC-226.04 | 15 min | 9.99 |
| SC-226.05 | 15 min | 40.32 |
| SC-226.06 | 15 min | 45.43 |
| SC-226.07 | 15 min | 50.11 |
| SC-226.08 | 15 min | 52.7 |
| SC-227.01 | 15 min | 0.67 |
| SC-228.01 | 15 min | 1.42 |
| SC-229.01 | 15 min | 1 |
| SC-23.01 | 15 min | 2.3 |
| SC-23.02 | 15 min | 7.29 |
| SC-23.03 | 15 min | 9.11 |
| SC-230.01 | 15 min | 1 |
| SC-231.01 | 15 min | 1.11 |
| SC-232.01 | 15 min | 2.86 |
| SC-232.02 | 15 min | 4.59 |
| SC-232.03 | 15 min | 10.67 |
| SC-233.01 | 15 min | 1.93 |
| SC-233.02 | 15 min | 3.34 |
| SC-234.01 | 15 min | 2.74 |
| SC-234.02 | 15 min | 5.61 |
| SC-234.03 | 15 min | 17.04 |
| SC-235.01 | 15 min | 0.97 |
| SC-236.01 | 15 min | 1.22 |
| SC-236.02 | 15 min | 1.91 |
| SC-237.01 | 15 min | 1.77 |
| SC-237.02 | 15 min | 4.49 |
| SC-238.01 | 15 min | 1.13 |
| SC-238.02 | 15 min | 2.76 |
| SC-239.01 | 15 min | 1.49 |
| SC-24.01 | 15 min | 2.01 |
| SC-240.01 | 15 min | 5.01 |
| SC-240.02 | 15 min | 7.03 |
| SC-241.01 | 15 min | 22.38 |
| SC-242.01 | 15 min | 2.05 |
| SC-242.02 | 15 min | 5.21 |
| SC-242.03 | 15 min | 7.85 |
| SC-242.04 | 15 min | 8.42 |
| SC-242.05 | 15 min | 19.06 |
| SC-242.06 | 15 min | 25.54 |
| SC-242.07 | 15 min | 28.12 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-242.08 | 15 min | 56.7 |
| SC-243.01 | 15 min | 1.8 |
| SC-243.02 | 15 min | 6.92 |
| SC-244.01 | 15 min | 2.53 |
| SC-245.01 | 15 min | 1.34 |
| SC-246.01 | 15 min | 0.93 |
| SC-246.02 | 15 min | 2.83 |
| SC-247.01 | 15 min | 2.63 |
| SC-247.02 | 15 min | 7.49 |
| SC-248.01 | 15 min | 3.8 |
| SC-249.01 | 15 min | 0.98 |
| SC-249.02 | 15 min | 2.61 |
| SC-249.03 | 15 min | 5.15 |
| SC-249.04 | 15 min | 12.29 |
| SC-249.05 | 15 min | 36.78 |
| SC-249.06 | 15 min | 68.83 |
| SC-25.01 | 15 min | 6.05 |
| SC-25.02 | 15 min | 9.06 |
| SC-25.03 | 15 min | 10.01 |
| SC-25.04 | 15 min | 16.99 |
| SC-250.01 | 15 min | 0.62 |
| SC-251.01 | 15 min | 1.46 |
| SC-252.01 | 15 min | 1.73 |
| SC-252.02 | 15 min | 3.15 |
| SC-253.01 | 15 min | 2.41 |
| SC-253.02 | 15 min | 9.06 |
| SC-253.03 | 15 min | 11.14 |
| SC-254.01 | 15 min | 2.48 |
| SC-255.01 | 15 min | 2.47 |
| SC-256.01 | 15 min | 2.09 |
| SC-257.01 | 15 min | 1.18 |
| SC-258.01 | 15 min | 5.48 |
| SC-258.02 | 15 min | 10.2 |
| SC-259.01 | 15 min | 2.37 |
| SC-259.02 | 15 min | 4.93 |
| SC-259.03 | 15 min | 7.04 |
| SC-259.04 | 15 min | 12.73 |
| SC-259.05 | 15 min | 15.69 |
| SC-259.06 | 15 min | 20.33 |
| SC-259.07 | 15 min | 27.07 |
| SC-259.08 | 15 min | 31.12 |
| SC-259.09 | 15 min | 89.39 |
| SC-259.10 | 15 min | 91.28 |
| SC-26.01 | 15 min | 1.91 |
| SC-260.01 | 15 min | 1.48 |
| SC-261.01 | 15 min | 2 |
| SC-262.01 | 15 min | 2.15 |
| SC-262.02 | 15 min | 4.03 |
| SC-263.01 | 15 min | 2.3 |
| SC-264.01 | 15 min | 1.25 |
| SC-265.01 | 15 min | 1.68 |
| SC-265.02 | 15 min | 5.18 |
| SC-265.03 | 15 min | 9.45 |
| SC-265.04 | 15 min | 42.58 |
| SC-266.01 | 15 min | 2.39 |
| SC-266.02 | 15 min | 4.54 |
| SC-266.03 | 15 min | 5.33 |
| SC-266.04 | 15 min | 21.92 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-266.05 | 15 min | 26.05 |
| SC-267.01 | 15 min | 2.04 |
| SC-268.01 | 15 min | 3.47 |
| SC-268.02 | 15 min | 9.8 |
| SC-269.01 | 15 min | 1.85 |
| SC-27.01 | 15 min | 2.23 |
| SC-270.01 | 15 min | 2.14 |
| SC-271.01 | 15 min | 1.31 |
| SC-272.01 | 15 min | 3.13 |
| SC-272.02 | 15 min | 6.23 |
| SC-272.03 | 15 min | 10.11 |
| SC-273.01 | 15 min | 2.81 |
| SC-274.01 | 30 min | 1.63 |
| SC-274.02 | 15 min | 5.21 |
| SC-274.03 | 15 min | 12.26 |
| SC-274.04 | 15 min | 15.97 |
| SC-274.05 | 15 min | 21.3 |
| SC-275.01 | 15 min | 2.23 |
| SC-276.01 | 15 min | 1.6 |
| SC-277.01 | 15 min | 2.16 |
| SC-278.01 | 15 min | 1.24 |
| SC-278.02 | 15 min | 20.1 |
| SC-279.01 | 15 min | 2.61 |
| SC-279.02 | 15 min | 18.79 |
| SC-28.01 | 15 min | 2.35 |
| SC-28.02 | 15 min | 4.81 |
| SC-28.03 | 15 min | 6.57 |
| SC-28.04 | 15 min | 12.87 |
| SC-280.01 | 15 min | 2.29 |
| SC-29.01 | 15 min | 1.87 |
| SC-29.02 | 15 min | 5.43 |
| SC-3.01 | 15 min | 2.39 |
| SC-3.02 | 15 min | 8.02 |
| SC-30.01 | 15 min | 3.3 |
| SC-30.02 | 15 min | 6.39 |
| SC-30.03 | 15 min | 8.9 |
| SC-30.04 | 15 min | 11.31 |
| SC-31.01 | 15 min | 2.51 |
| SC-31.02 | 15 min | 5.23 |
| SC-32.01 | 15 min | 2.72 |
| SC-32.02 | 15 min | 3.96 |
| SC-33.01 | 15 min | 2.79 |
| SC-33.02 | 15 min | 6.7 |
| SC-34.01 | 15 min | 2.36 |
| SC-34.02 | 15 min | 4.89 |
| SC-34.03 | 15 min | 5.84 |
| SC-35.01 | 15 min | 1.93 |
| SC-35.02 | 15 min | 5.65 |
| SC-35.03 | 15 min | 9.03 |
| SC-35.04 | 15 min | 9.72 |
| SC-36.01 | 15 min | 4.28 |
| SC-36.02 | 15 min | 7.72 |
| SC-37.01 | 15 min | 1.66 |
| SC-37.02 | 15 min | 4.84 |
| SC-38.01 | 15 min | 1.98 |
| SC-39.01 | 15 min | 1.12 |
| SC-4.01 | 15 min | 2.93 |
| SC-40.01 | 15 min | 2.52 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-41.01 | 15 min | 1.62 |
| SC-42.01 | 15 min | 5.59 |
| SC-43.01 | 15 min | 1.17 |
| SC-44.01 | 15 min | 3.49 |
| SC-44.02 | 15 min | 5.85 |
| SC-44.03 | 15 min | 8.08 |
| SC-44.04 | 15 min | 12.49 |
| SC-44.05 | 15 min | 22.52 |
| SC-44.06 | 15 min | 24.66 |
| SC-44.07 | 15 min | 29.38 |
| SC-44.08 | 15 min | 37.41 |
| SC-44.09 | 15 min | 41.4 |
| SC-44.10 | 30 min | 37.13 |
| SC-44.11 | 30 min | 95.92 |
| SC-44.12 | 45 min | 78.96 |
| SC-44.13 | 45 min | 78.36 |
| SC-44.14 | 1.50 hour | 87.86 |
| SC-44.15 | 1.50 hour | 98.43 |
| SC-44.16 | 1.50 hour | 98.88 |
| SC-44.17 | 1.50 hour | 110.6 |
| SC-44.18 | 1.50 hour | 111.84 |
| SC-44.19 | 1.50 hour | 114.23 |
| SC-44.20 | 1.50 hour | 98.45 |
| SC-45.01 | 15 min | 2.75 |
| SC-46.01 | 15 min | 2.13 |
| SC-46.02 | 15 min | 3.84 |
| SC-46.03 | 15 min | 5.75 |
| SC-46.04 | 15 min | 6.52 |
| SC-47.01 | 15 min | 3.43 |
| SC-48.01 | 15 min | 2.58 |
| SC-48.02 | 15 min | 4.34 |
| SC-49.01 | 15 min | 2.94 |
| SC-5.01 | 15 min | 1.95 |
| SC-50.01 | 15 min | 1.15 |
| SC-51.01 | 15 min | 1.07 |
| SC-52.01 | 15 min | 1.07 |
| SC-53.01 | 15 min | 2.51 |
| SC-53.02 | 15 min | 5.53 |
| SC-53.03 | 15 min | 6.72 |
| SC-54.01 | 15 min | 2.04 |
| SC-54.02 | 15 min | 4.23 |
| SC-55.01 | 15 min | 3.16 |
| SC-56.01 | 15 min | 1.62 |
| SC-57.01 | 15 min | 1.26 |
| SC-58.01 | 15 min | 2.06 |
| SC-59.01 | 15 min | 2.83 |
| SC-59.02 | 15 min | 5.65 |
| SC-59.03 | 15 min | 8.23 |
| SC-59.04 | 15 min | 10.57 |
| SC-59.05 | 15 min | 24.14 |
| SC-59.06 | 15 min | 28.64 |
| SC-59.07 | 15 min | 50.07 |
| SC-59.08 | 15 min | 54.23 |
| SC-59.09 | 15 min | 66.89 |
| SC-59.10 | 15 min | 67.28 |
| SC-6.01 | 15 min | 2.29 |
| SC-60.01 | 15 min | 2.28 |
| SC-60.02 | 15 min | 8.7 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-61.01 | 15 min | 4.43 |
| SC-62.01 | 15 min | 2.49 |
| SC-63.01 | 15 min | 1.64 |
| SC-64.01 | 15 min | 2 |
| SC-64.02 | 15 min | 6.99 |
| SC-64.03 | 15 min | 13.22 |
| SC-64.04 | 15 min | 19.48 |
| SC-65.01 | 15 min | 1.46 |
| SC-66.01 | 15 min | 1.29 |
| SC-66.02 | 15 min | 3.45 |
| SC-67.01 | 15 min | 2.27 |
| SC-68.01 | 15 min | 3.18 |
| SC-68.02 | 15 min | 6.47 |
| SC-68.03 | 15 min | 11.32 |
| SC-69.01 | 15 min | 2.64 |
| SC-7.01 | 15 min | 3.75 |
| SC-70.01 | 15 min | 2.28 |
| SC-70.02 | 15 min | 3.79 |
| SC-71.01 | 15 min | 3.17 |
| SC-71.02 | 15 min | 6.29 |
| SC-72.01 | 15 min | 3 |
| SC-73.01 | 15 min | 2.62 |
| SC-74.01 | 15 min | 2.8 |
| SC-75.01 | 15 min | 2.18 |
| SC-75.02 | 15 min | 8.99 |
| SC-75.03 | 15 min | 12.93 |
| SC-75.04 | 15 min | 21.38 |
| SC-76.01 | 15 min | 3.13 |
| SC-77.01 | 15 min | 3.43 |
| SC-77.02 | 15 min | 5.32 |
| SC-77.03 | 15 min | 7.92 |
| SC-78.01 | 15 min | 3.12 |
| SC-79.01 | 15 min | 3.54 |
| SC-79.02 | 15 min | 6.55 |
| SC-79.03 | 15 min | 14.84 |
| SC-8.01 | 15 min | 2.88 |
| SC-8.02 | 15 min | 7.54 |
| SC-8.03 | 15 min | 20.29 |
| SC-8.04 | 15 min | 35.11 |
| SC-8.05 | 15 min | 39.18 |
| SC-8.06 | 15 min | 41.34 |
| SC-80.01 | 15 min | 3.27 |
| SC-80.02 | 15 min | 6.95 |
| SC-81.01 | 15 min | 3.01 |
| SC-81.02 | 15 min | 8.77 |
| SC-82.01 | 15 min | 3.32 |
| SC-83.01 | 15 min | 1.85 |
| SC-84.01 | 15 min | 3.21 |
| SC-84.02 | 15 min | 7.97 |
| SC-84.03 | 15 min | 10.57 |
| SC-84.04 | 15 min | 12.5 |
| SC-84.05 | 15 min | 15.37 |
| SC-84.06 | 15 min | 17.53 |
| SC-85.01 | 15 min | 1.97 |
| SC-86.01 | 15 min | 2.58 |
| SC-86.02 | 15 min | 5.21 |
| SC-87.01 | 15 min | 4.26 |
| SC-87.02 | 15 min | 7.54 |

| ARR2019 Results for PMF | | |
|---|---|---|
| Subcatch ID | Critical Duration (mins) | Peak Discharge |
| SC-88.01 | 15 min | 1.95 |
| SC-88.02 | 15 min | 3.48 |
| SC-89.01 | 15 min | 2.11 |
| SC-89.02 | 15 min | 2.49 |
| SC-9.01 | 15 min | 2.73 |
| SC-90.01 | 15 min | 0.83 |
| SC-91.01 | 15 min | 2.38 |
| SC-91.02 | 15 min | 5.21 |
| SC-92.01 | 15 min | 2.45 |
| SC-92.02 | 15 min | 7.12 |
| SC-93.01 | 15 min | 2.75 |
| SC-94.01 | 15 min | 2.9 |
| SC-94.02 | 15 min | 7.12 |
| SC-95.01 | 15 min | 1.49 |
| SC-95.02 | 15 min | 3.76 |
| SC-96.01 | 15 min | 1.69 |
| SC-97.01 | 15 min | 1.26 |
| SC-97.02 | 15 min | 7.95 |
| SC-98.01 | 15 min | 2.32 |
| SC-99.01 | 15 min | 1.98 |
| SC-99.02 | 15 min | 5.82 |
| SC-99.03 | 15 min | 10.1 |
| SC-99.04 | 15 min | 27.37 |
| Dummy1 | 15 min | 142.9 |
| Dummy2 | 30 min | 246.18 |
| Dummy3 | 45 min | 520.92 |
| DummyOut | 1.50 hour | 647.48 |

# Appendix G

## XP-RAFTS Model Outputs for Future Catchment and Climate Change Conditions

# Future Catchment Development Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 10 min | 0.93 | 10 min | 0.96 |
| SC-1.02 | 10 min | 2.00 | 10 min | 2.06 |
| SC-1.03 | 10 min | 2.38 | 10 min | 2.43 |
| SC-1.04 | 10 min | 6.27 | 10 min | 6.48 |
| SC-1.05 | 10 min | 6.82 | 10 min | 6.89 |
| SC-1.06 | 10 min | 7.79 | 10 min | 7.97 |
| SC-1.07 | 10 min | 7.91 | 10 min | 8.05 |
| SC-1.08 | 45 min | 8.71 | 45 min | 8.74 |
| SC-1.09 | 45 min | 9.35 | 45 min | 9.37 |
| SC-1.10 | 45 min | 9.36 | 45 min | 9.38 |
| SC-1.11 | 10 min | 13.59 | 10 min | 14.05 |
| SC-1.12 | 10 min | 16.99 | 10 min | 17.48 |
| SC-1.13 | 10 min | 19.43 | 10 min | 19.80 |
| SC-1.14 | 10 min | 23.13 | 10 min | 23.53 |
| SC-1.15 | 10 min | 25.02 | 10 min | 25.57 |
| SC-1.16 | 15 min | 28.64 | 15 min | 29.06 |
| SC-1.17 | 15 min | 28.95 | 15 min | 29.39 |
| SC-1.18 | 30 min | 18.10 | 30 min | 18.19 |
| SC-1.19 | 1 hour | 22.75 | 1 hour | 22.83 |
| SC-1.20 | 1 hour | 20.73 | 1 hour | 20.81 |
| SC-1.21 | 1 hour | 20.74 | 1 hour | 20.83 |
| SC-1.22 | 1.50 hour | 20.92 | 1.50 hour | 20.98 |
| SC-1.23 | 1.50 hour | 23.45 | 1.50 hour | 23.50 |
| SC-1.24 | 20 min | 31.77 | 20 min | 31.77 |
| SC-1.25 | 25 min | 32.54 | 25 min | 32.45 |
| SC-1.26 | 25 min | 35.37 | 25 min | 35.34 |
| SC-1.27 | 25 min | 35.95 | 25 min | 36.20 |
| SC-1.28 | 15 min | 47.23 | 15 min | 47.60 |
| SC-1.29 | 25 min | 49.56 | 20 min | 50.52 |
| SC-1.30 | 25 min | 50.66 | 25 min | 51.16 |
| SC-1.31 | 25 min | 51.58 | 25 min | 52.02 |
| SC-1.32 | 25 min | 52.64 | 25 min | 53.08 |
| SC-1.33 | 30 min | 54.45 | 30 min | 54.49 |
| SC-1.34 | 30 min | 54.52 | 30 min | 54.54 |
| SC-1.35 | 30 min | 54.65 | 30 min | 54.91 |
| SC-1.36 | 30 min | 57.49 | 30 min | 57.79 |
| SC-10.01 | 10 min | 0.97 | 10 min | 1.04 |
| SC-100.01 | 10 min | 1.14 | 10 min | 1.17 |
| SC-100.02 | 10 min | 1.95 | 10 min | 1.99 |
| SC-101.01 | 10 min | 1.18 | 10 min | 1.22 |
| SC-101.02 | 10 min | 2.05 | 10 min | 2.15 |
| SC-102.01 | 10 min | 0.94 | 10 min | 0.99 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-102.02 | 10 min | 3.50 | 10 min | 3.63 |
| SC-103.01 | 10 min | 0.63 | 10 min | 0.66 |
| SC-103.02 | 10 min | 2.17 | 10 min | 2.22 |
| SC-104.01 | 10 min | 0.56 | 10 min | 0.59 |
| SC-105.01 | 10 min | 0.60 | 10 min | 0.64 |
| SC-105.02 | 10 min | 1.41 | 10 min | 1.47 |
| SC-105.03 | 10 min | 3.29 | 10 min | 3.41 |
| SC-105.04 | 10 min | 4.44 | 10 min | 4.62 |
| SC-105.05 | 10 min | 5.26 | 10 min | 5.45 |
| SC-105.06 | 10 min | 5.54 | 10 min | 5.73 |
| SC-105.07 | 15 min | 8.11 | 10 min | 8.50 |
| SC-105.08 | 15 min | 9.32 | 10 min | 9.60 |
| SC-105.09 | 10 min | 12.28 | 10 min | 12.58 |
| SC-106.01 | 10 min | 0.44 | 10 min | 0.46 |
| SC-107.01 | 10 min | 0.76 | 10 min | 0.82 |
| SC-108.01 | 10 min | 0.56 | 10 min | 0.58 |
| SC-109.01 | 10 min | 0.73 | 10 min | 0.77 |
| SC-11.01 | 10 min | 0.59 | 10 min | 0.63 |
| SC-110.01 | 10 min | 0.67 | 10 min | 0.71 |
| SC-110.02 | 10 min | 1.50 | 10 min | 1.56 |
| SC-110.03 | 10 min | 1.64 | 10 min | 1.69 |
| SC-111.01 | 20 min | 0.45 | 20 min | 0.44 |
| SC-112.01 | 10 min | 1.13 | 10 min | 1.19 |
| SC-113.01 | 10 min | 0.41 | 10 min | 0.41 |
| SC-113.02 | 10 min | 1.30 | 10 min | 1.33 |
| SC-114.01 | 10 min | 0.71 | 10 min | 0.75 |
| SC-114.02 | 10 min | 1.14 | 10 min | 1.15 |
| SC-114.03 | 10 min | 2.34 | 10 min | 2.41 |
| SC-115.01 | 10 min | 0.65 | 10 min | 0.68 |
| SC-115.02 | 10 min | 1.04 | 10 min | 1.06 |
| SC-116.01 | 10 min | 0.64 | 10 min | 0.67 |
| SC-116.02 | 10 min | 1.03 | 10 min | 1.07 |
| SC-117.01 | 10 min | 0.38 | 10 min | 0.39 |
| SC-118.01 | 10 min | 0.83 | 10 min | 0.85 |
| SC-119.01 | 10 min | 1.26 | 10 min | 1.31 |
| SC-119.02 | 10 min | 3.14 | 10 min | 3.27 |
| SC-12.01 | 10 min | 0.69 | 10 min | 0.72 |
| SC-12.02 | 10 min | 1.20 | 10 min | 1.23 |
| SC-12.03 | 10 min | 2.19 | 10 min | 2.23 |
| SC-12.04 | 10 min | 2.79 | 10 min | 2.86 |
| SC-120.01 | 10 min | 0.57 | 10 min | 0.59 |
| SC-121.01 | 10 min | 0.71 | 10 min | 0.75 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-122.01 | 10 min | 1.16 | 10 min | 1.17 |
| SC-122.02 | 10 min | 1.79 | 10 min | 1.82 |
| SC-122.03 | 10 min | 2.41 | 10 min | 2.43 |
| SC-123.01 | 10 min | 0.58 | 10 min | 0.58 |
| SC-123.02 | 10 min | 1.62 | 10 min | 1.64 |
| SC-123.03 | 10 min | 10.91 | 10 min | 11.12 |
| SC-123.04 | 10 min | 11.19 | 10 min | 11.42 |
| SC-123.05 | 10 min | 14.12 | 10 min | 14.31 |
| SC-123.06 | 10 min | 14.54 | 10 min | 14.69 |
| SC-123.07 | 10 min | 15.60 | 10 min | 15.82 |
| SC-124.01 | 20 min | 0.70 | 20 min | 0.69 |
| SC-124.02 | 20 min | 4.51 | 20 min | 4.52 |
| SC-125.01 | 20 min | 0.97 | 20 min | 0.97 |
| SC-126.01 | 10 min | 0.54 | 10 min | 0.55 |
| SC-126.02 | 20 min | 1.30 | 20 min | 1.30 |
| SC-126.03 | 20 min | 2.40 | 20 min | 2.41 |
| SC-127.01 | 10 min | 1.28 | 10 min | 1.29 |
| SC-127.02 | 10 min | 3.43 | 10 min | 3.45 |
| SC-128.01 | 10 min | 1.25 | 10 min | 1.27 |
| SC-129.01 | 10 min | 0.61 | 10 min | 0.64 |
| SC-13.01 | 10 min | 0.63 | 10 min | 0.67 |
| SC-130.01 | 10 min | 0.94 | 10 min | 0.95 |
| SC-131.01 | 10 min | 0.37 | 10 min | 0.37 |
| SC-132.01 | 10 min | 0.52 | 10 min | 0.53 |
| SC-133.01 | 10 min | 0.38 | 10 min | 0.38 |
| SC-134.01 | 10 min | 0.32 | 10 min | 0.31 |
| SC-134.02 | 10 min | 1.02 | 10 min | 1.01 |
| SC-134.03 | 10 min | 2.07 | 10 min | 2.08 |
| SC-134.04 | 10 min | 2.93 | 15 min | 2.67 |
| SC-135.01 | 10 min | 0.25 | 10 min | 0.26 |
| SC-135.02 | 10 min | 1.39 | 10 min | 1.44 |
| SC-135.03 | 10 min | 1.83 | 10 min | 1.90 |
| SC-135.04 | 10 min | 4.06 | 10 min | 4.17 |
| SC-135.05 | 10 min | 4.60 | 10 min | 4.74 |
| SC-135.06 | 10 min | 7.50 | 10 min | 7.71 |
| SC-136.01 | 10 min | 0.76 | 10 min | 0.81 |
| SC-137.01 | 10 min | 0.77 | 10 min | 0.81 |
| SC-138.01 | 10 min | 0.92 | 10 min | 0.96 |
| SC-139.01 | 10 min | 0.90 | 10 min | 0.96 |
| SC-139.02 | 10 min | 1.09 | 10 min | 1.15 |
| SC-14.01 | 10 min | 1.11 | 10 min | 1.16 |
| SC-14.02 | 10 min | 1.69 | 10 min | 1.74 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-14.03 | 10 min | 2.21 | 10 min | 2.28 |
| SC-140.01 | 10 min | 0.64 | 10 min | 0.67 |
| SC-141.01 | 10 min | 1.04 | 10 min | 1.04 |
| SC-142.01 | 20 min | 1.55 | 20 min | 1.55 |
| SC-143.01 | 20 min | 0.61 | 20 min | 0.59 |
| SC-143.02 | 10 min | 4.94 | 10 min | 4.96 |
| SC-144.01 | 10 min | 0.73 | 10 min | 0.73 |
| SC-144.02 | 10 min | 1.04 | 10 min | 1.03 |
| SC-144.03 | 10 min | 1.38 | 10 min | 1.38 |
| SC-144.04 | 10 min | 2.44 | 10 min | 2.39 |
| SC-144.05 | 10 min | 4.60 | 10 min | 4.57 |
| SC-145.01 | 10 min | 0.94 | 10 min | 0.95 |
| SC-145.02 | 10 min | 1.74 | 10 min | 1.74 |
| SC-146.01 | 15 min | 1.75 | 20 min | 1.73 |
| SC-147.01 | 10 min | 0.92 | 10 min | 0.91 |
| SC-147.02 | 10 min | 1.25 | 10 min | 1.25 |
| SC-147.03 | 10 min | 3.19 | 10 min | 3.19 |
| SC-148.01 | 10 min | 0.78 | 10 min | 0.79 |
| SC-148.02 | 10 min | 1.67 | 10 min | 1.67 |
| SC-149.01 | 10 min | 0.56 | 10 min | 0.55 |
| SC-149.02 | 10 min | 1.83 | 10 min | 1.82 |
| SC-15.01 | 10 min | 1.13 | 10 min | 1.18 |
| SC-15.02 | 10 min | 1.48 | 10 min | 1.55 |
| SC-15.03 | 10 min | 2.33 | 10 min | 2.41 |
| SC-150.01 | 10 min | 0.68 | 10 min | 0.72 |
| SC-150.02 | 10 min | 1.31 | 10 min | 1.36 |
| SC-150.03 | 10 min | 3.32 | 10 min | 3.42 |
| SC-150.04 | 10 min | 4.30 | 10 min | 4.47 |
| SC-150.05 | 10 min | 5.94 | 10 min | 6.16 |
| SC-150.06 | 10 min | 11.00 | 10 min | 11.39 |
| SC-150.07 | 10 min | 17.06 | 10 min | 17.76 |
| SC-150.08 | 2 hours | 9.68 | 2 hours | 9.68 |
| SC-150.09 | 2 hours | 10.19 | 2 hours | 10.22 |
| SC-150.10 | 2 hours | 12.14 | 2 hours | 12.26 |
| SC-150.11 | 10 min | 18.60 | 10 min | 19.09 |
| SC-150.12 | 10 min | 29.36 | 10 min | 29.94 |
| SC-150.13 | 15 min | 33.27 | 15 min | 33.94 |
| SC-150.14 | 15 min | 49.84 | 15 min | 50.06 |
| SC-150.15 | 15 min | 50.19 | 15 min | 50.78 |
| SC-150.16 | 15 min | 52.64 | 15 min | 53.35 |
| SC-150.17 | 15 min | 53.46 | 15 min | 54.30 |
| SC-151.01 | 10 min | 0.91 | 10 min | 0.95 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-151.02 | 10 min | 1.38 | 10 min | 1.44 |
| SC-152.01 | 10 min | 0.80 | 10 min | 0.84 |
| SC-153.01 | 10 min | 0.65 | 10 min | 0.66 |
| SC-153.02 | 10 min | 1.52 | 10 min | 1.58 |
| SC-154.01 | 10 min | 1.19 | 10 min | 1.23 |
| SC-154.02 | 10 min | 3.98 | 10 min | 4.11 |
| SC-155.01 | 10 min | 0.43 | 10 min | 0.45 |
| SC-155.02 | 10 min | 1.25 | 10 min | 1.28 |
| SC-156.01 | 10 min | 0.49 | 10 min | 0.50 |
| SC-157.01 | 10 min | 0.57 | 10 min | 0.59 |
| SC-158.01 | 10 min | 0.77 | 10 min | 0.81 |
| SC-158.02 | 10 min | 0.98 | 10 min | 1.03 |
| SC-158.03 | 10 min | 2.13 | 10 min | 2.19 |
| SC-158.04 | 10 min | 3.96 | 10 min | 4.12 |
| SC-159.01 | 10 min | 0.61 | 10 min | 0.64 |
| SC-16.01 | 10 min | 0.73 | 10 min | 0.77 |
| SC-160.01 | 10 min | 0.59 | 10 min | 0.63 |
| SC-160.02 | 10 min | 1.32 | 10 min | 1.37 |
| SC-161.01 | 10 min | 0.72 | 10 min | 0.76 |
| SC-161.02 | 10 min | 1.36 | 10 min | 1.42 |
| SC-162.01 | 10 min | 0.84 | 10 min | 0.88 |
| SC-163.01 | 10 min | 0.47 | 10 min | 0.47 |
| SC-163.02 | 10 min | 0.90 | 10 min | 0.91 |
| SC-163.03 | 10 min | 1.48 | 10 min | 1.54 |
| SC-163.04 | 10 min | 2.11 | 10 min | 2.15 |
| SC-163.05 | 10 min | 3.65 | 10 min | 3.76 |
| SC-164.01 | 10 min | 0.72 | 10 min | 0.75 |
| SC-165.01 | 10 min | 0.62 | 10 min | 0.64 |
| SC-165.02 | 10 min | 1.60 | 10 min | 1.67 |
| SC-165.03 | 10 min | 2.09 | 10 min | 2.16 |
| SC-165.04 | 10 min | 4.46 | 10 min | 4.61 |
| SC-165.05 | 10 min | 7.50 | 10 min | 7.73 |
| SC-166.01 | 10 min | 0.56 | 10 min | 0.58 |
| SC-167.01 | 10 min | 0.85 | 10 min | 0.90 |
| SC-167.02 | 10 min | 2.15 | 10 min | 2.22 |
| SC-168.01 | 10 min | 0.70 | 10 min | 0.74 |
| SC-169.01 | 10 min | 0.63 | 10 min | 0.64 |
| SC-169.02 | 10 min | 1.16 | 10 min | 1.20 |
| SC-169.03 | 10 min | 2.62 | 10 min | 2.68 |
| SC-17.01 | 10 min | 0.64 | 10 min | 0.68 |
| SC-17.02 | 10 min | 1.10 | 10 min | 1.13 |
| SC-17.03 | 10 min | 1.84 | 10 min | 1.92 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-17.04 | 10 min | 4.38 | 10 min | 4.56 |
| SC-17.05 | 10 min | 6.01 | 10 min | 6.22 |
| SC-17.06 | 10 min | 6.75 | 10 min | 6.98 |
| SC-17.07 | 10 min | 7.26 | 10 min | 7.45 |
| SC-170.01 | 10 min | 0.57 | 10 min | 0.60 |
| SC-171.01 | 10 min | 0.41 | 10 min | 0.40 |
| SC-172.01 | 10 min | 0.82 | 10 min | 0.84 |
| SC-172.02 | 10 min | 1.38 | 10 min | 1.42 |
| SC-173.01 | 20 min | 0.89 | 20 min | 0.87 |
| SC-173.02 | 20 min | 1.79 | 20 min | 1.77 |
| SC-173.03 | 20 min | 1.85 | 20 min | 1.83 |
| SC-173.04 | 10 min | 3.07 | 10 min | 3.12 |
| SC-173.05 | 10 min | 3.58 | 10 min | 3.65 |
| SC-174.01 | 10 min | 0.53 | 10 min | 0.53 |
| SC-175.01 | 10 min | 0.92 | 10 min | 0.97 |
| SC-175.02 | 10 min | 1.86 | 10 min | 1.92 |
| SC-175.03 | 10 min | 2.99 | 10 min | 3.12 |
| SC-175.04 | 10 min | 3.67 | 10 min | 3.79 |
| SC-175.05 | 10 min | 4.12 | 10 min | 4.26 |
| SC-176.01 | 10 min | 0.38 | 10 min | 0.38 |
| SC-177.01 | 10 min | 0.51 | 10 min | 0.53 |
| SC-177.02 | 10 min | 1.34 | 10 min | 1.39 |
| SC-177.03 | 10 min | 3.68 | 10 min | 3.75 |
| SC-177.04 | 10 min | 5.02 | 10 min | 5.15 |
| SC-178.01 | 10 min | 1.12 | 10 min | 1.17 |
| SC-178.02 | 10 min | 1.66 | 10 min | 1.73 |
| SC-179.01 | 10 min | 0.91 | 10 min | 0.96 |
| SC-18.01 | 10 min | 0.71 | 10 min | 0.75 |
| SC-18.02 | 10 min | 1.11 | 10 min | 1.14 |
| SC-180.01 | 10 min | 0.88 | 10 min | 0.93 |
| SC-180.02 | 10 min | 1.49 | 10 min | 1.54 |
| SC-180.03 | 10 min | 2.09 | 10 min | 2.16 |
| SC-180.04 | 10 min | 3.02 | 10 min | 3.13 |
| SC-181.01 | 20 min | 0.38 | 20 min | 0.39 |
| SC-181.02 | 10 min | 1.25 | 10 min | 1.27 |
| SC-181.03 | 10 min | 2.04 | 10 min | 2.11 |
| SC-181.04 | 10 min | 3.79 | 10 min | 3.82 |
| SC-181.05 | 10 min | 4.08 | 10 min | 4.19 |
| SC-181.06 | 10 min | 4.55 | 10 min | 4.65 |
| SC-181.07 | 10 min | 10.03 | 10 min | 10.19 |
| SC-181.08 | 10 min | 10.40 | 10 min | 10.56 |
| SC-182.01 | 10 min | 0.62 | 10 min | 0.65 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-182.02 | 10 min | 1.00 | 10 min | 1.03 |
| SC-182.03 | 10 min | 1.56 | 10 min | 1.63 |
| SC-183.01 | 10 min | 0.59 | 10 min | 0.60 |
| SC-183.02 | 10 min | 1.34 | 10 min | 1.35 |
| SC-183.03 | 10 min | 3.32 | 10 min | 3.33 |
| SC-183.04 | 10 min | 3.79 | 10 min | 3.83 |
| SC-184.01 | 10 min | 1.43 | 10 min | 1.42 |
| SC-185.01 | 10 min | 0.86 | 10 min | 0.90 |
| SC-185.02 | 10 min | 1.89 | 10 min | 1.94 |
| SC-186.01 | 10 min | 0.30 | 10 min | 0.32 |
| SC-187.01 | 10 min | 0.87 | 10 min | 0.91 |
| SC-187.02 | 10 min | 1.67 | 10 min | 1.74 |
| SC-187.03 | 10 min | 1.97 | 10 min | 2.06 |
| SC-187.04 | 10 min | 2.46 | 10 min | 2.53 |
| SC-187.05 | 10 min | 2.93 | 10 min | 3.00 |
| SC-188.01 | 10 min | 0.91 | 10 min | 0.96 |
| SC-188.02 | 10 min | 1.33 | 10 min | 1.39 |
| SC-189.01 | 10 min | 1.03 | 10 min | 1.09 |
| SC-189.02 | 10 min | 1.83 | 10 min | 1.91 |
| SC-19.01 | 10 min | 0.41 | 10 min | 0.43 |
| SC-190.01 | 10 min | 0.45 | 10 min | 0.46 |
| SC-191.01 | 10 min | 0.83 | 10 min | 0.87 |
| SC-191.02 | 10 min | 1.19 | 10 min | 1.24 |
| SC-191.03 | 10 min | 2.18 | 10 min | 2.26 |
| SC-191.04 | 10 min | 3.18 | 10 min | 3.31 |
| SC-191.05 | 10 min | 4.45 | 10 min | 4.56 |
| SC-191.06 | 10 min | 7.65 | 10 min | 7.86 |
| SC-191.07 | 10 min | 9.11 | 10 min | 9.48 |
| SC-191.08 | 10 min | 9.97 | 10 min | 10.29 |
| SC-192.01 | 10 min | 2.59 | 10 min | 2.70 |
| SC-193.01 | 10 min | 1.18 | 10 min | 1.24 |
| SC-194.01 | 10 min | 1.18 | 10 min | 1.18 |
| SC-194.02 | 20 min | 4.77 | 20 min | 4.71 |
| SC-194.03 | 20 min | 4.95 | 20 min | 4.89 |
| SC-195.01 | 20 min | 1.67 | 20 min | 1.64 |
| SC-196.01 | 10 min | 3.86 | 10 min | 3.97 |
| SC-197.01 | 10 min | 2.47 | 10 min | 2.50 |
| SC-198.01 | 20 min | 2.40 | 20 min | 2.39 |
| SC-2.01 | 10 min | 0.53 | 10 min | 0.55 |
| SC-20.01 | 10 min | 0.56 | 10 min | 0.59 |
| SC-200.01 | 10 min | 0.80 | 10 min | 0.81 |
| SC-200.02 | 10 min | 1.41 | 10 min | 1.43 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-200.03 | 10 min | 2.63 | 10 min | 2.63 |
| SC-200.04 | 10 min | 3.84 | 10 min | 3.86 |
| SC-200.05 | 10 min | 6.29 | 10 min | 6.30 |
| SC-200.06 | 10 min | 9.51 | 10 min | 9.46 |
| SC-200.07 | 10 min | 11.17 | 10 min | 11.10 |
| SC-200.08 | 10 min | 12.58 | 10 min | 12.51 |
| SC-200.09 | 15 min | 18.58 | 15 min | 18.48 |
| SC-201.01 | 10 min | 1.02 | 10 min | 1.04 |
| SC-202.01 | 10 min | 1.05 | 10 min | 1.06 |
| SC-203.01 | 10 min | 1.04 | 10 min | 1.04 |
| SC-204.01 | 10 min | 1.36 | 10 min | 1.36 |
| SC-205.01 | 20 min | 0.55 | 20 min | 0.55 |
| SC-206.01 | 10 min | 4.38 | 10 min | 4.31 |
| SC-207.01 | 10 min | 0.98 | 10 min | 1.00 |
| SC-207.02 | 10 min | 1.89 | 10 min | 1.92 |
| SC-207.03 | 10 min | 2.11 | 10 min | 2.12 |
| SC-207.04 | 10 min | 5.77 | 10 min | 5.87 |
| SC-207.05 | 10 min | 7.61 | 10 min | 7.75 |
| SC-207.06 | 10 min | 8.34 | 10 min | 8.53 |
| SC-207.07 | 10 min | 13.97 | 10 min | 14.10 |
| SC-207.08 | 10 min | 20.74 | 10 min | 20.95 |
| SC-207.09 | 10 min | 23.77 | 10 min | 24.08 |
| SC-207.10 | 15 min | 24.60 | 10 min | 24.62 |
| SC-207.11 | 15 min | 26.60 | 15 min | 26.91 |
| SC-207.12 | 15 min | 38.54 | 15 min | 38.85 |
| SC-207.13 | 15 min | 40.73 | 15 min | 40.99 |
| SC-207.14 | 15 min | 41.81 | 15 min | 42.34 |
| SC-208.01 | 10 min | 1.08 | 10 min | 1.09 |
| SC-208.02 | 10 min | 1.51 | 10 min | 1.53 |
| SC-208.03 | 10 min | 2.00 | 10 min | 2.05 |
| SC-208.04 | 10 min | 3.12 | 10 min | 3.20 |
| SC-208.05 | 10 min | 3.57 | 10 min | 3.65 |
| SC-209.01 | 10 min | 0.66 | 10 min | 0.69 |
| SC-21.01 | 10 min | 0.80 | 10 min | 0.85 |
| SC-210.01 | 10 min | 1.49 | 10 min | 1.54 |
| SC-210.02 | 10 min | 2.04 | 10 min | 2.09 |
| SC-211.01 | 20 min | 0.56 | 20 min | 0.55 |
| SC-211.02 | 25 min | 1.25 | 25 min | 1.22 |
| SC-211.03 | 20 min | 1.92 | 20 min | 1.87 |
| SC-211.04 | 20 min | 2.29 | 20 min | 2.23 |
| SC-212.01 | 1 hour | 0.21 | 1 hour | 0.20 |
| SC-212.02 | 20 min | 0.43 | 20 min | 0.41 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-213.01 | 10 min | 0.62 | 10 min | 0.64 |
| SC-213.02 | 10 min | 1.02 | 10 min | 1.05 |
| SC-214.01 | 10 min | 0.76 | 10 min | 0.78 |
| SC-214.02 | 10 min | 1.64 | 10 min | 1.68 |
| SC-215.01 | 10 min | 0.60 | 10 min | 0.63 |
| SC-215.02 | 10 min | 1.08 | 10 min | 1.12 |
| SC-216.01 | 10 min | 0.58 | 10 min | 0.58 |
| SC-216.02 | 10 min | 1.73 | 10 min | 1.73 |
| SC-216.03 | 10 min | 2.69 | 10 min | 2.71 |
| SC-216.04 | 10 min | 3.73 | 10 min | 3.72 |
| SC-217.01 | 10 min | 0.41 | 10 min | 0.40 |
| SC-218.01 | 10 min | 0.31 | 10 min | 0.31 |
| SC-219.01 | 10 min | 0.41 | 10 min | 0.41 |
| SC-22.01 | 10 min | 0.45 | 10 min | 0.47 |
| SC-220.01 | 10 min | 0.63 | 10 min | 0.65 |
| SC-221.01 | 10 min | 0.58 | 10 min | 0.61 |
| SC-221.02 | 10 min | 1.23 | 10 min | 1.25 |
| SC-221.03 | 10 min | 1.51 | 10 min | 1.55 |
| SC-221.04 | 10 min | 2.21 | 10 min | 2.27 |
| SC-221.05 | 10 min | 2.86 | 10 min | 2.91 |
| SC-221.06 | 10 min | 2.99 | 10 min | 3.06 |
| SC-222.01 | 10 min | 0.63 | 10 min | 0.66 |
| SC-222.02 | 10 min | 0.98 | 10 min | 1.02 |
| SC-222.03 | 10 min | 2.17 | 10 min | 2.20 |
| SC-223.01 | 10 min | 0.27 | 10 min | 0.28 |
| SC-224.01 | 15 min | 0.71 | 15 min | 0.70 |
| SC-225.01 | 10 min | 0.50 | 10 min | 0.51 |
| SC-226.01 | 10 min | 0.37 | 10 min | 0.37 |
| SC-226.02 | 10 min | 0.85 | 10 min | 0.85 |
| SC-226.03 | 10 min | 1.75 | 10 min | 1.79 |
| SC-226.04 | 10 min | 2.63 | 10 min | 2.69 |
| SC-226.05 | 10 min | 10.48 | 10 min | 10.94 |
| SC-226.06 | 10 min | 11.44 | 10 min | 12.01 |
| SC-226.07 | 10 min | 12.46 | 10 min | 13.10 |
| SC-226.08 | 10 min | 13.12 | 10 min | 13.75 |
| SC-227.01 | 10 min | 0.19 | 10 min | 0.20 |
| SC-228.01 | 10 min | 0.41 | 10 min | 0.42 |
| SC-229.01 | 10 min | 0.29 | 10 min | 0.29 |
| SC-23.01 | 10 min | 0.59 | 10 min | 0.62 |
| SC-23.02 | 10 min | 1.71 | 10 min | 1.74 |
| SC-23.03 | 10 min | 2.09 | 10 min | 2.15 |
| SC-230.01 | 10 min | 0.28 | 10 min | 0.29 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-231.01 | 10 min | 0.31 | 10 min | 0.31 |
| SC-232.01 | 10 min | 0.77 | 10 min | 0.80 |
| SC-232.02 | 10 min | 1.22 | 10 min | 1.27 |
| SC-232.03 | 10 min | 2.85 | 10 min | 2.90 |
| SC-233.01 | 10 min | 0.56 | 10 min | 0.59 |
| SC-233.02 | 10 min | 0.90 | 10 min | 0.93 |
| SC-234.01 | 10 min | 0.80 | 10 min | 0.85 |
| SC-234.02 | 10 min | 1.53 | 10 min | 1.55 |
| SC-234.03 | 10 min | 4.50 | 10 min | 4.82 |
| SC-235.01 | 10 min | 0.30 | 10 min | 0.29 |
| SC-236.01 | 10 min | 0.38 | 10 min | 0.38 |
| SC-236.02 | 10 min | 0.58 | 10 min | 0.58 |
| SC-237.01 | 10 min | 0.51 | 10 min | 0.53 |
| SC-237.02 | 10 min | 1.04 | 10 min | 1.33 |
| SC-238.01 | 10 min | 0.33 | 10 min | 0.33 |
| SC-238.02 | 10 min | 0.75 | 10 min | 0.75 |
| SC-239.01 | 10 min | 0.42 | 10 min | 0.44 |
| SC-24.01 | 10 min | 0.51 | 10 min | 0.53 |
| SC-240.01 | 20 min | 1.10 | 20 min | 1.08 |
| SC-240.02 | 20 min | 1.56 | 20 min | 1.54 |
| SC-241.01 | 15 min | 4.53 | 15 min | 4.51 |
| SC-242.01 | 10 min | 0.59 | 10 min | 0.61 |
| SC-242.02 | 10 min | 1.50 | 10 min | 1.56 |
| SC-242.03 | 10 min | 2.22 | 10 min | 2.31 |
| SC-242.04 | 10 min | 2.36 | 10 min | 2.45 |
| SC-242.05 | 10 min | 5.23 | 10 min | 5.40 |
| SC-242.06 | 10 min | 6.67 | 10 min | 6.89 |
| SC-242.07 | 10 min | 7.14 | 10 min | 7.33 |
| SC-242.08 | 10 min | 14.04 | 10 min | 14.10 |
| SC-243.01 | 10 min | 0.56 | 10 min | 0.57 |
| SC-243.02 | 10 min | 2.04 | 10 min | 2.07 |
| SC-244.01 | 10 min | 0.79 | 10 min | 0.81 |
| SC-245.01 | 10 min | 0.42 | 10 min | 0.42 |
| SC-246.01 | 10 min | 0.28 | 10 min | 0.28 |
| SC-246.02 | 10 min | 0.72 | 10 min | 0.71 |
| SC-247.01 | 10 min | 0.75 | 10 min | 0.76 |
| SC-247.02 | 10 min | 1.89 | 10 min | 1.90 |
| SC-248.01 | 10 min | 0.94 | 10 min | 0.93 |
| SC-249.01 | 20 min | 0.22 | 20 min | 0.21 |
| SC-249.02 | 20 min | 0.63 | 20 min | 0.65 |
| SC-249.03 | 10 min | 1.29 | 10 min | 1.33 |
| SC-249.04 | 10 min | 3.25 | 10 min | 3.37 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-249.05 | 10 min | 9.49 | 10 min | 9.84 |
| SC-249.06 | 10 min | 16.08 | 10 min | 16.17 |
| SC-25.01 | 10 min | 1.56 | 10 min | 1.62 |
| SC-25.02 | 10 min | 2.19 | 10 min | 2.25 |
| SC-25.03 | 10 min | 2.38 | 10 min | 2.45 |
| SC-25.04 | 10 min | 4.00 | 10 min | 4.12 |
| SC-250.01 | 10 min | 0.18 | 10 min | 0.18 |
| SC-251.01 | 10 min | 0.43 | 10 min | 0.44 |
| SC-252.01 | 10 min | 0.49 | 10 min | 0.51 |
| SC-252.02 | 10 min | 0.92 | 10 min | 0.95 |
| SC-253.01 | 10 min | 0.74 | 10 min | 0.77 |
| SC-253.02 | 10 min | 2.64 | 10 min | 2.76 |
| SC-253.03 | 10 min | 3.23 | 10 min | 3.36 |
| SC-254.01 | 10 min | 0.74 | 10 min | 0.79 |
| SC-255.01 | 10 min | 0.69 | 10 min | 0.73 |
| SC-256.01 | 10 min | 0.61 | 10 min | 0.63 |
| SC-257.01 | 10 min | 0.35 | 10 min | 0.35 |
| SC-258.01 | 10 min | 1.58 | 10 min | 1.59 |
| SC-258.02 | 10 min | 2.63 | 10 min | 2.62 |
| SC-259.01 | 10 min | 0.68 | 10 min | 0.70 |
| SC-259.02 | 10 min | 1.40 | 10 min | 1.47 |
| SC-259.03 | 10 min | 1.99 | 10 min | 2.06 |
| SC-259.04 | 10 min | 3.62 | 10 min | 3.74 |
| SC-259.05 | 10 min | 4.41 | 10 min | 4.58 |
| SC-259.06 | 10 min | 5.69 | 10 min | 5.92 |
| SC-259.07 | 10 min | 7.17 | 10 min | 7.40 |
| SC-259.08 | 10 min | 8.57 | 10 min | 8.72 |
| SC-259.09 | 10 min | 22.34 | 10 min | 22.41 |
| SC-259.10 | 10 min | 22.72 | 10 min | 22.76 |
| SC-26.01 | 10 min | 0.48 | 10 min | 0.51 |
| SC-260.01 | 10 min | 0.45 | 10 min | 0.47 |
| SC-261.01 | 10 min | 0.58 | 10 min | 0.59 |
| SC-262.01 | 10 min | 0.66 | 10 min | 0.69 |
| SC-262.02 | 10 min | 1.19 | 10 min | 1.22 |
| SC-263.01 | 10 min | 0.70 | 10 min | 0.74 |
| SC-264.01 | 10 min | 0.39 | 10 min | 0.40 |
| SC-265.01 | 10 min | 0.50 | 10 min | 0.50 |
| SC-265.02 | 20 min | 1.20 | 20 min | 1.18 |
| SC-265.03 | 15 min | 2.08 | 15 min | 2.06 |
| SC-265.04 | 10 min | 10.21 | 10 min | 10.11 |
| SC-266.01 | 10 min | 0.64 | 10 min | 0.64 |
| SC-266.02 | 10 min | 1.22 | 10 min | 1.22 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-266.03 | 10 min | 1.47 | 10 min | 1.47 |
| SC-266.04 | 10 min | 5.60 | 10 min | 5.59 |
| SC-266.05 | 10 min | 6.48 | 10 min | 6.45 |
| SC-267.01 | 10 min | 0.62 | 10 min | 0.65 |
| SC-268.01 | 10 min | 1.04 | 10 min | 1.05 |
| SC-268.02 | 10 min | 2.70 | 10 min | 2.69 |
| SC-269.01 | 20 min | 0.43 | 20 min | 0.43 |
| SC-27.01 | 10 min | 0.49 | 10 min | 0.52 |
| SC-270.01 | 20 min | 0.47 | 20 min | 0.47 |
| SC-271.01 | 15 min | 0.29 | 20 min | 0.29 |
| SC-272.01 | 20 min | 0.71 | 20 min | 0.71 |
| SC-272.02 | 20 min | 1.45 | 20 min | 1.42 |
| SC-272.03 | 10 min | 2.58 | 10 min | 2.55 |
| SC-273.01 | 10 min | 0.73 | 10 min | 0.73 |
| SC-274.01 | 20 min | 0.36 | 20 min | 0.35 |
| SC-274.02 | 10 min | 1.44 | 10 min | 1.49 |
| SC-274.03 | 10 min | 3.48 | 10 min | 3.59 |
| SC-274.04 | 10 min | 4.49 | 10 min | 4.63 |
| SC-274.05 | 10 min | 5.81 | 10 min | 5.97 |
| SC-275.01 | 10 min | 0.68 | 10 min | 0.71 |
| SC-276.01 | 10 min | 0.50 | 10 min | 0.52 |
| SC-277.01 | 10 min | 0.62 | 10 min | 0.64 |
| SC-278.01 | 10 min | 0.38 | 10 min | 0.39 |
| SC-278.02 | 10 min | 5.04 | 10 min | 4.97 |
| SC-279.01 | 10 min | 0.66 | 10 min | 0.65 |
| SC-279.02 | 10 min | 4.81 | 10 min | 4.75 |
| SC-28.01 | 20 min | 0.41 | 20 min | 0.41 |
| SC-28.02 | 20 min | 0.92 | 20 min | 0.91 |
| SC-28.03 | 20 min | 1.29 | 10 min | 1.34 |
| SC-28.04 | 10 min | 2.82 | 10 min | 2.91 |
| SC-280.01 | 10 min | 0.62 | 10 min | 0.63 |
| SC-29.01 | 10 min | 0.48 | 10 min | 0.50 |
| SC-29.02 | 10 min | 1.29 | 10 min | 1.31 |
| SC-3.01 | 10 min | 0.55 | 10 min | 0.56 |
| SC-3.02 | 15 min | 1.73 | 15 min | 1.77 |
| SC-30.01 | 10 min | 0.85 | 10 min | 0.89 |
| SC-30.02 | 10 min | 1.52 | 10 min | 1.54 |
| SC-30.03 | 10 min | 2.10 | 10 min | 2.15 |
| SC-30.04 | 10 min | 2.66 | 10 min | 2.75 |
| SC-31.01 | 10 min | 0.56 | 10 min | 0.58 |
| SC-31.02 | 10 min | 1.15 | 10 min | 1.19 |
| SC-32.01 | 15 min | 0.48 | 15 min | 0.48 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-32.02 | 15 min | 0.71 | 15 min | 0.70 |
| SC-33.01 | 10 min | 0.71 | 10 min | 0.75 |
| SC-33.02 | 10 min | 1.61 | 10 min | 1.67 |
| SC-34.01 | 10 min | 0.55 | 10 min | 0.57 |
| SC-34.02 | 10 min | 1.11 | 10 min | 1.18 |
| SC-34.03 | 10 min | 1.32 | 10 min | 1.38 |
| SC-35.01 | 10 min | 0.52 | 10 min | 0.52 |
| SC-35.02 | 10 min | 1.39 | 10 min | 1.38 |
| SC-35.03 | 10 min | 2.22 | 10 min | 2.19 |
| SC-35.04 | 10 min | 2.37 | 10 min | 2.36 |
| SC-36.01 | 10 min | 1.08 | 10 min | 1.15 |
| SC-36.02 | 10 min | 1.95 | 10 min | 2.08 |
| SC-37.01 | 10 min | 0.42 | 10 min | 0.44 |
| SC-37.02 | 10 min | 1.15 | 10 min | 1.21 |
| SC-38.01 | 10 min | 0.48 | 10 min | 0.52 |
| SC-39.01 | 10 min | 0.28 | 10 min | 0.29 |
| SC-4.01 | 20 min | 0.61 | 20 min | 0.61 |
| SC-40.01 | 10 min | 0.66 | 10 min | 0.67 |
| SC-41.01 | 10 min | 0.44 | 10 min | 0.43 |
| SC-42.01 | 10 min | 1.48 | 10 min | 1.47 |
| SC-43.01 | 10 min | 0.32 | 10 min | 0.32 |
| SC-44.01 | 10 min | 1.01 | 10 min | 1.07 |
| SC-44.02 | 10 min | 1.58 | 10 min | 1.64 |
| SC-44.03 | 10 min | 2.17 | 10 min | 2.24 |
| SC-44.04 | 10 min | 3.35 | 10 min | 3.39 |
| SC-44.05 | 10 min | 5.80 | 10 min | 5.92 |
| SC-44.06 | 10 min | 6.13 | 10 min | 6.30 |
| SC-44.07 | 10 min | 6.82 | 10 min | 6.95 |
| SC-44.08 | 10 min | 8.82 | 10 min | 8.96 |
| SC-44.09 | 10 min | 9.12 | 10 min | 9.32 |
| SC-44.10 | 12 hours | 2.42 | 12 hours | 2.42 |
| SC-44.11 | 45 min | 12.48 | 45 min | 12.50 |
| SC-44.12 | 12 hours | 5.67 | 12 hours | 5.69 |
| SC-44.13 | 12 hours | 5.75 | 12 hours | 5.77 |
| SC-44.14 | 12 hours | 6.49 | 12 hours | 6.51 |
| SC-44.15 | 12 hours | 4.64 | 12 hours | 4.60 |
| SC-44.16 | 12 hours | 4.66 | 12 hours | 4.62 |
| SC-44.17 | 15 min | 8.32 | 15 min | 8.41 |
| SC-44.18 | 15 min | 8.86 | 15 min | 8.97 |
| SC-44.19 | 15 min | 10.10 | 15 min | 10.18 |
| SC-44.20 | 25 min | 9.34 | 25 min | 9.35 |
| SC-45.01 | 10 min | 0.74 | 10 min | 0.77 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-46.01 | 10 min | 0.61 | 10 min | 0.61 |
| SC-46.02 | 10 min | 1.03 | 10 min | 1.02 |
| SC-46.03 | 10 min | 1.55 | 10 min | 1.55 |
| SC-46.04 | 10 min | 1.74 | 10 min | 1.76 |
| SC-47.01 | 10 min | 0.99 | 10 min | 1.05 |
| SC-48.01 | 10 min | 0.75 | 10 min | 0.79 |
| SC-48.02 | 10 min | 1.17 | 10 min | 1.20 |
| SC-49.01 | 10 min | 0.84 | 10 min | 0.88 |
| SC-5.01 | 10 min | 0.53 | 10 min | 0.53 |
| SC-50.01 | 10 min | 0.28 | 10 min | 0.29 |
| SC-51.01 | 10 min | 0.29 | 10 min | 0.30 |
| SC-52.01 | 10 min | 0.29 | 10 min | 0.30 |
| SC-53.01 | 10 min | 0.72 | 10 min | 0.77 |
| SC-53.02 | 10 min | 1.45 | 10 min | 1.51 |
| SC-53.03 | 10 min | 1.76 | 10 min | 1.81 |
| SC-54.01 | 10 min | 0.59 | 10 min | 0.62 |
| SC-54.02 | 10 min | 1.10 | 10 min | 1.15 |
| SC-55.01 | 10 min | 0.91 | 10 min | 0.96 |
| SC-56.01 | 10 min | 0.42 | 10 min | 0.44 |
| SC-57.01 | 10 min | 0.31 | 10 min | 0.32 |
| SC-58.01 | 10 min | 0.59 | 10 min | 0.61 |
| SC-59.01 | 10 min | 0.79 | 10 min | 0.83 |
| SC-59.02 | 10 min | 1.49 | 10 min | 1.55 |
| SC-59.03 | 10 min | 2.18 | 10 min | 2.24 |
| SC-59.04 | 10 min | 2.82 | 10 min | 2.86 |
| SC-59.05 | 10 min | 5.96 | 10 min | 6.09 |
| SC-59.06 | 10 min | 6.84 | 10 min | 6.98 |
| SC-59.07 | 10 min | 11.45 | 10 min | 11.68 |
| SC-59.08 | 15 min | 11.49 | 15 min | 11.56 |
| SC-59.09 | 15 min | 14.04 | 15 min | 14.16 |
| SC-59.10 | 25 min | 12.35 | 25 min | 12.43 |
| SC-6.01 | 10 min | 0.69 | 10 min | 0.69 |
| SC-60.01 | 10 min | 0.53 | 10 min | 0.52 |
| SC-60.02 | 10 min | 2.10 | 10 min | 2.08 |
| SC-61.01 | 10 min | 1.10 | 10 min | 1.09 |
| SC-62.01 | 10 min | 0.70 | 10 min | 0.74 |
| SC-63.01 | 10 min | 0.40 | 10 min | 0.40 |
| SC-64.01 | 10 min | 0.53 | 10 min | 0.54 |
| SC-64.02 | 10 min | 1.76 | 10 min | 1.82 |
| SC-64.03 | 10 min | 3.31 | 10 min | 3.42 |
| SC-64.04 | 10 min | 4.60 | 10 min | 4.74 |
| SC-65.01 | 10 min | 0.41 | 10 min | 0.42 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-66.01 | 10 min | 0.32 | 10 min | 0.34 |
| SC-66.02 | 15 min | 0.72 | 15 min | 0.70 |
| SC-67.01 | 10 min | 0.59 | 10 min | 0.62 |
| SC-68.01 | 10 min | 0.81 | 10 min | 0.86 |
| SC-68.02 | 10 min | 1.52 | 10 min | 1.55 |
| SC-68.03 | 10 min | 2.77 | 10 min | 2.85 |
| SC-69.01 | 10 min | 0.70 | 10 min | 0.72 |
| SC-7.01 | 10 min | 0.90 | 10 min | 0.93 |
| SC-70.01 | 10 min | 0.64 | 10 min | 0.67 |
| SC-70.02 | 10 min | 1.02 | 10 min | 1.04 |
| SC-71.01 | 10 min | 0.81 | 10 min | 0.86 |
| SC-71.02 | 10 min | 1.53 | 10 min | 1.58 |
| SC-72.01 | 10 min | 0.87 | 10 min | 0.92 |
| SC-73.01 | 10 min | 0.70 | 10 min | 0.75 |
| SC-74.01 | 10 min | 0.81 | 10 min | 0.86 |
| SC-75.01 | 10 min | 0.47 | 10 min | 0.48 |
| SC-75.02 | 10 min | 1.91 | 10 min | 1.91 |
| SC-75.03 | 10 min | 2.72 | 10 min | 2.78 |
| SC-75.04 | 10 min | 4.69 | 10 min | 4.88 |
| SC-76.01 | 10 min | 0.65 | 10 min | 0.65 |
| SC-77.01 | 10 min | 0.96 | 10 min | 1.01 |
| SC-77.02 | 10 min | 1.45 | 10 min | 1.52 |
| SC-77.03 | 10 min | 2.01 | 10 min | 2.08 |
| SC-78.01 | 10 min | 0.90 | 10 min | 0.95 |
| SC-79.01 | 10 min | 0.96 | 10 min | 0.98 |
| SC-79.02 | 10 min | 1.78 | 10 min | 1.83 |
| SC-79.03 | 10 min | 3.90 | 10 min | 4.02 |
| SC-8.01 | 10 min | 0.76 | 10 min | 0.79 |
| SC-8.02 | 10 min | 1.82 | 10 min | 1.91 |
| SC-8.03 | 10 min | 4.76 | 10 min | 4.85 |
| SC-8.04 | 10 min | 8.34 | 10 min | 8.64 |
| SC-8.05 | 10 min | 9.11 | 10 min | 9.42 |
| SC-8.06 | 10 min | 9.46 | 10 min | 9.86 |
| SC-80.01 | 10 min | 0.94 | 10 min | 0.99 |
| SC-80.02 | 10 min | 1.86 | 10 min | 1.90 |
| SC-81.01 | 10 min | 0.70 | 10 min | 0.74 |
| SC-81.02 | 10 min | 2.07 | 10 min | 2.13 |
| SC-82.01 | 10 min | 0.84 | 10 min | 0.89 |
| SC-83.01 | 10 min | 0.53 | 10 min | 0.56 |
| SC-84.01 | 10 min | 0.79 | 10 min | 0.84 |
| SC-84.02 | 10 min | 1.92 | 10 min | 2.04 |
| SC-84.03 | 10 min | 2.54 | 10 min | 2.66 |

| Future Catchment Development Results for 1% AEP Flood | | | | |
|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Future Catchment Development | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-84.04 | 10 min | 3.01 | 10 min | 3.13 |
| SC-84.05 | 10 min | 3.56 | 10 min | 3.73 |
| SC-84.06 | 10 min | 3.93 | 10 min | 4.10 |
| SC-85.01 | 10 min | 0.49 | 10 min | 0.52 |
| SC-86.01 | 10 min | 0.75 | 10 min | 0.79 |
| SC-86.02 | 10 min | 1.44 | 10 min | 1.50 |
| SC-87.01 | 10 min | 1.10 | 10 min | 1.15 |
| SC-87.02 | 10 min | 1.84 | 10 min | 1.90 |
| SC-88.01 | 10 min | 0.49 | 10 min | 0.52 |
| SC-88.02 | 10 min | 0.80 | 10 min | 0.82 |
| SC-89.01 | 10 min | 0.54 | 10 min | 0.56 |
| SC-89.02 | 10 min | 0.59 | 10 min | 0.60 |
| SC-9.01 | 10 min | 0.71 | 10 min | 0.75 |
| SC-90.01 | 10 min | 0.21 | 10 min | 0.23 |
| SC-91.01 | 10 min | 0.64 | 10 min | 0.65 |
| SC-91.02 | 10 min | 1.31 | 10 min | 1.32 |
| SC-92.01 | 10 min | 0.63 | 10 min | 0.65 |
| SC-92.02 | 10 min | 1.75 | 10 min | 1.82 |
| SC-93.01 | 10 min | 0.69 | 10 min | 0.69 |
| SC-94.01 | 10 min | 0.76 | 10 min | 0.78 |
| SC-94.02 | 10 min | 1.75 | 10 min | 1.77 |
| SC-95.01 | 10 min | 0.45 | 10 min | 0.45 |
| SC-95.02 | 10 min | 1.09 | 10 min | 1.09 |
| SC-96.01 | 10 min | 0.50 | 10 min | 0.51 |
| SC-97.01 | 10 min | 0.34 | 10 min | 0.33 |
| SC-97.02 | 10 min | 1.94 | 10 min | 2.00 |
| SC-98.01 | 10 min | 0.59 | 10 min | 0.63 |
| SC-99.01 | 10 min | 0.57 | 10 min | 0.60 |
| SC-99.02 | 10 min | 1.54 | 10 min | 1.58 |
| SC-99.03 | 10 min | 2.64 | 10 min | 2.71 |
| SC-99.04 | 10 min | 7.03 | 10 min | 7.18 |
| Dummy1 | 15 min | 35.32 | 15 min | 35.46 |
| Dummy2 | 25 min | 55.39 | 25 min | 55.44 |
| Dummy3 | 30 min | 106.76 | 30 min | 107.21 |
| DummyOut | 1.50 hour | 113.93 | 1.50 hour | 114.04 |

# Climate Change Sensitivity Results for 20% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 10 min | 0.42 | 10 min | 0.48 | 10 min | 0.53 |
| SC-1.02 | 10 min | 0.95 | 10 min | 1.05 | 10 min | 1.15 |
| SC-1.03 | 10 min | 1.14 | 10 min | 1.26 | 10 min | 1.38 |
| SC-1.04 | 10 min | 2.94 | 10 min | 3.28 | 10 min | 3.63 |
| SC-1.05 | 10 min | 3.19 | 10 min | 3.52 | 10 min | 3.88 |
| SC-1.06 | 10 min | 3.70 | 10 min | 4.08 | 10 min | 4.50 |
| SC-1.07 | 10 min | 3.80 | 10 min | 4.19 | 10 min | 4.59 |
| SC-1.08 | 1.50 hour | 2.93 | 1 hour | 3.67 | 1 hour | 4.35 |
| SC-1.09 | 2 hours | 3.19 | 2 hours | 3.98 | 2 hours | 4.54 |
| SC-1.10 | 2 hours | 3.24 | 2 hours | 4.05 | 2 hours | 4.62 |
| SC-1.11 | 10 min | 6.86 | 10 min | 7.56 | 10 min | 8.33 |
| SC-1.12 | 10 min | 8.52 | 10 min | 9.38 | 10 min | 10.33 |
| SC-1.13 | 10 min | 9.54 | 10 min | 10.54 | 10 min | 11.62 |
| SC-1.14 | 10 min | 11.06 | 10 min | 12.30 | 10 min | 13.62 |
| SC-1.15 | 10 min | 11.89 | 10 min | 13.24 | 10 min | 14.64 |
| SC-1.16 | 20 min | 13.33 | 20 min | 14.97 | 20 min | 16.53 |
| SC-1.17 | 20 min | 13.63 | 20 min | 15.23 | 20 min | 16.85 |
| SC-1.18 | 45 min | 12.19 | 45 min | 12.95 | 45 min | 13.57 |
| SC-1.19 | 45 min | 9.81 | 45 min | 10.62 | 45 min | 11.51 |
| SC-1.20 | 45 min | 9.82 | 45 min | 10.61 | 45 min | 11.47 |
| SC-1.21 | 45 min | 9.84 | 45 min | 10.62 | 1.50 hour | 11.63 |
| SC-1.22 | 1.50 hour | 10.30 | 1.50 hour | 11.11 | 1.50 hour | 11.97 |
| SC-1.23 | 1 hour | 13.69 | 1 hour | 14.77 | 1 hour | 15.84 |
| SC-1.24 | 1 hour | 18.02 | 1 hour | 19.57 | 1 hour | 21.09 |
| SC-1.25 | 1 hour | 18.17 | 1 hour | 19.72 | 1 hour | 21.26 |
| SC-1.26 | 45 min | 19.25 | 45 min | 21.75 | 45 min | 23.58 |
| SC-1.27 | 45 min | 19.67 | 45 min | 22.05 | 45 min | 23.91 |
| SC-1.28 | 45 min | 25.24 | 45 min | 28.26 | 45 min | 30.84 |
| SC-1.29 | 45 min | 26.90 | 45 min | 29.94 | 45 min | 32.63 |
| SC-1.30 | 45 min | 27.49 | 45 min | 30.34 | 45 min | 33.06 |
| SC-1.31 | 45 min | 27.75 | 45 min | 30.60 | 45 min | 33.34 |
| SC-1.32 | 45 min | 28.08 | 45 min | 30.95 | 45 min | 33.72 |
| SC-1.33 | 45 min | 28.54 | 45 min | 31.43 | 45 min | 34.22 |
| SC-1.34 | 45 min | 28.58 | 45 min | 31.47 | 45 min | 34.39 |
| SC-1.35 | 45 min | 28.64 | 45 min | 31.55 | 45 min | 34.76 |
| SC-1.36 | 45 min | 30.48 | 45 min | 33.97 | 45 min | 37.60 |
| SC-10.01 | 10 min | 0.47 | 10 min | 0.52 | 10 min | 0.57 |
| SC-100.01 | 10 min | 0.56 | 10 min | 0.61 | 10 min | 0.67 |
| SC-100.02 | 10 min | 0.95 | 10 min | 1.04 | 10 min | 1.14 |
| SC-101.01 | 10 min | 0.57 | 10 min | 0.63 | 10 min | 0.69 |
| SC-101.02 | 10 min | 0.99 | 10 min | 1.09 | 10 min | 1.19 |
| SC-102.01 | 10 min | 0.45 | 10 min | 0.50 | 10 min | 0.55 |
| SC-102.02 | 10 min | 1.68 | 10 min | 1.85 | 10 min | 2.05 |
| SC-103.01 | 10 min | 0.31 | 10 min | 0.34 | 10 min | 0.37 |

# Climate Change Sensitivity Results for 20% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-103.02 | 10 min | 1.03 | 10 min | 1.14 | 10 min | 1.27 |
| SC-104.01 | 10 min | 0.28 | 10 min | 0.30 | 10 min | 0.34 |
| SC-105.01 | 10 min | 0.29 | 10 min | 0.33 | 10 min | 0.36 |
| SC-105.02 | 10 min | 0.67 | 10 min | 0.75 | 10 min | 0.83 |
| SC-105.03 | 10 min | 1.57 | 10 min | 1.75 | 10 min | 1.94 |
| SC-105.04 | 10 min | 2.10 | 10 min | 2.35 | 10 min | 2.60 |
| SC-105.05 | 10 min | 2.49 | 10 min | 2.78 | 10 min | 3.10 |
| SC-105.06 | 10 min | 2.57 | 20 min | 2.89 | 20 min | 3.25 |
| SC-105.07 | 10 min | 3.88 | 20 min | 4.18 | 20 min | 4.70 |
| SC-105.08 | 10 min | 4.45 | 10 min | 4.95 | 10 min | 5.47 |
| SC-105.09 | 10 min | 6.16 | 10 min | 6.78 | 10 min | 7.45 |
| SC-106.01 | 10 min | 0.22 | 10 min | 0.24 | 10 min | 0.26 |
| SC-107.01 | 10 min | 0.38 | 10 min | 0.41 | 10 min | 0.46 |
| SC-108.01 | 10 min | 0.27 | 10 min | 0.30 | 10 min | 0.33 |
| SC-109.01 | 10 min | 0.35 | 10 min | 0.39 | 10 min | 0.43 |
| SC-11.01 | 10 min | 0.29 | 10 min | 0.32 | 10 min | 0.35 |
| SC-110.01 | 10 min | 0.31 | 10 min | 0.36 | 10 min | 0.39 |
| SC-110.02 | 10 min | 0.71 | 10 min | 0.80 | 10 min | 0.88 |
| SC-110.03 | 10 min | 0.77 | 10 min | 0.86 | 10 min | 0.94 |
| SC-111.01 | 45 min | 0.19 | 25 min | 0.20 | 25 min | 0.22 |
| SC-112.01 | 10 min | 0.52 | 10 min | 0.59 | 10 min | 0.65 |
| SC-113.01 | 10 min | 0.20 | 10 min | 0.22 | 10 min | 0.24 |
| SC-113.02 | 10 min | 0.62 | 10 min | 0.68 | 10 min | 0.76 |
| SC-114.01 | 10 min | 0.32 | 10 min | 0.37 | 10 min | 0.41 |
| SC-114.02 | 10 min | 0.53 | 10 min | 0.59 | 10 min | 0.65 |
| SC-114.03 | 10 min | 1.13 | 10 min | 1.25 | 10 min | 1.37 |
| SC-115.01 | 10 min | 0.30 | 10 min | 0.34 | 10 min | 0.38 |
| SC-115.02 | 10 min | 0.49 | 10 min | 0.55 | 10 min | 0.60 |
| SC-116.01 | 10 min | 0.30 | 10 min | 0.34 | 10 min | 0.37 |
| SC-116.02 | 10 min | 0.50 | 10 min | 0.55 | 10 min | 0.60 |
| SC-117.01 | 10 min | 0.19 | 10 min | 0.20 | 10 min | 0.22 |
| SC-118.01 | 10 min | 0.38 | 10 min | 0.43 | 10 min | 0.48 |
| SC-119.01 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.72 |
| SC-119.02 | 10 min | 1.51 | 10 min | 1.68 | 10 min | 1.84 |
| SC-12.01 | 10 min | 0.33 | 10 min | 0.37 | 10 min | 0.40 |
| SC-12.02 | 10 min | 0.58 | 10 min | 0.64 | 10 min | 0.70 |
| SC-12.03 | 10 min | 1.07 | 10 min | 1.18 | 10 min | 1.29 |
| SC-12.04 | 10 min | 1.35 | 10 min | 1.50 | 10 min | 1.64 |
| SC-120.01 | 10 min | 0.27 | 10 min | 0.30 | 10 min | 0.33 |
| SC-121.01 | 10 min | 0.33 | 10 min | 0.38 | 10 min | 0.41 |
| SC-122.01 | 10 min | 0.55 | 10 min | 0.61 | 10 min | 0.67 |
| SC-122.02 | 10 min | 0.89 | 10 min | 0.96 | 10 min | 1.06 |
| SC-122.03 | 10 min | 1.16 | 10 min | 1.27 | 10 min | 1.41 |
| SC-123.01 | 10 min | 0.28 | 10 min | 0.30 | 10 min | 0.33 |

| Climate Change Sensitivity Results for 20% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-123.02 | 10 min | 0.79 | 10 min | 0.87 | 10 min | 0.96 |
| SC-123.03 | 10 min | 5.28 | 10 min | 5.85 | 10 min | 6.47 |
| SC-123.04 | 10 min | 5.38 | 10 min | 5.94 | 10 min | 6.56 |
| SC-123.05 | 10 min | 6.83 | 10 min | 7.48 | 10 min | 8.20 |
| SC-123.06 | 10 min | 7.09 | 10 min | 7.77 | 10 min | 8.52 |
| SC-123.07 | 10 min | 7.48 | 10 min | 8.24 | 10 min | 9.06 |
| SC-124.01 | 45 min | 0.27 | 25 min | 0.31 | 25 min | 0.35 |
| SC-124.02 | 20 min | 1.92 | 20 min | 2.24 | 20 min | 2.54 |
| SC-125.01 | 45 min | 0.37 | 25 min | 0.42 | 25 min | 0.48 |
| SC-126.01 | 10 min | 0.26 | 10 min | 0.29 | 10 min | 0.31 |
| SC-126.02 | 20 min | 0.52 | 20 min | 0.58 | 20 min | 0.65 |
| SC-126.03 | 20 min | 1.03 | 20 min | 1.20 | 20 min | 1.36 |
| SC-127.01 | 10 min | 0.61 | 10 min | 0.67 | 10 min | 0.74 |
| SC-127.02 | 10 min | 1.66 | 10 min | 1.83 | 10 min | 2.01 |
| SC-128.01 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.72 |
| SC-129.01 | 10 min | 0.28 | 10 min | 0.32 | 10 min | 0.35 |
| SC-13.01 | 10 min | 0.30 | 10 min | 0.34 | 10 min | 0.37 |
| SC-130.01 | 10 min | 0.44 | 10 min | 0.50 | 10 min | 0.55 |
| SC-131.01 | 10 min | 0.18 | 10 min | 0.20 | 10 min | 0.22 |
| SC-132.01 | 10 min | 0.25 | 10 min | 0.28 | 10 min | 0.30 |
| SC-133.01 | 10 min | 0.19 | 10 min | 0.20 | 10 min | 0.22 |
| SC-134.01 | 10 min | 0.15 | 10 min | 0.17 | 10 min | 0.18 |
| SC-134.02 | 10 min | 0.47 | 10 min | 0.52 | 10 min | 0.58 |
| SC-134.03 | 20 min | 0.89 | 20 min | 0.99 | 20 min | 1.10 |
| SC-134.04 | 20 min | 1.21 | 20 min | 1.40 | 20 min | 1.59 |
| SC-135.01 | 10 min | 0.13 | 10 min | 0.14 | 10 min | 0.15 |
| SC-135.02 | 10 min | 0.68 | 10 min | 0.74 | 10 min | 0.81 |
| SC-135.03 | 10 min | 0.89 | 10 min | 0.98 | 10 min | 1.07 |
| SC-135.04 | 10 min | 1.98 | 10 min | 2.17 | 10 min | 2.39 |
| SC-135.05 | 10 min | 2.25 | 10 min | 2.48 | 10 min | 2.73 |
| SC-135.06 | 10 min | 3.60 | 10 min | 4.02 | 10 min | 4.46 |
| SC-136.01 | 10 min | 0.36 | 10 min | 0.41 | 10 min | 0.45 |
| SC-137.01 | 10 min | 0.38 | 10 min | 0.40 | 10 min | 0.44 |
| SC-138.01 | 10 min | 0.47 | 10 min | 0.50 | 10 min | 0.55 |
| SC-139.01 | 10 min | 0.42 | 10 min | 0.48 | 10 min | 0.52 |
| SC-139.02 | 10 min | 0.51 | 10 min | 0.58 | 10 min | 0.63 |
| SC-14.01 | 10 min | 0.53 | 10 min | 0.59 | 10 min | 0.65 |
| SC-14.02 | 10 min | 0.84 | 10 min | 0.91 | 10 min | 0.99 |
| SC-14.03 | 10 min | 1.07 | 10 min | 1.18 | 10 min | 1.29 |
| SC-140.01 | 10 min | 0.30 | 10 min | 0.33 | 10 min | 0.37 |
| SC-141.01 | 20 min | 0.41 | 20 min | 0.49 | 20 min | 0.54 |
| SC-142.01 | 45 min | 0.63 | 25 min | 0.69 | 25 min | 0.77 |
| SC-143.01 | 10 min | 0.24 | 20 min | 0.28 | 20 min | 0.32 |
| SC-143.02 | 20 min | 2.24 | 20 min | 2.53 | 20 min | 2.86 |

| Climate Change Sensitivity Results for 20% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-144.01 | 10 min | 0.35 | 10 min | 0.37 | 10 min | 0.41 |
| SC-144.02 | 10 min | 0.50 | 10 min | 0.54 | 10 min | 0.59 |
| SC-144.03 | 10 min | 0.66 | 10 min | 0.72 | 10 min | 0.79 |
| SC-144.04 | 10 min | 1.15 | 10 min | 1.27 | 10 min | 1.41 |
| SC-144.05 | 10 min | 2.09 | 10 min | 2.36 | 10 min | 2.64 |
| SC-145.01 | 10 min | 0.47 | 10 min | 0.51 | 10 min | 0.55 |
| SC-145.02 | 10 min | 0.83 | 10 min | 0.91 | 10 min | 1.00 |
| SC-146.01 | 45 min | 0.76 | 25 min | 0.77 | 25 min | 0.86 |
| SC-147.01 | 20 min | 0.35 | 15 min | 0.41 | 15 min | 0.47 |
| SC-147.02 | 45 min | 0.49 | 20 min | 0.59 | 20 min | 0.65 |
| SC-147.03 | 20 min | 1.38 | 20 min | 1.55 | 20 min | 1.71 |
| SC-148.01 | 10 min | 0.38 | 10 min | 0.42 | 10 min | 0.46 |
| SC-148.02 | 20 min | 0.72 | 20 min | 0.81 | 20 min | 0.89 |
| SC-149.01 | 10 min | 0.26 | 10 min | 0.28 | 10 min | 0.32 |
| SC-149.02 | 20 min | 0.78 | 20 min | 0.87 | 20 min | 0.97 |
| SC-15.01 | 10 min | 0.52 | 10 min | 0.58 | 10 min | 0.64 |
| SC-15.02 | 10 min | 0.70 | 10 min | 0.78 | 10 min | 0.86 |
| SC-15.03 | 10 min | 1.11 | 10 min | 1.23 | 10 min | 1.35 |
| SC-150.01 | 10 min | 0.32 | 10 min | 0.36 | 10 min | 0.40 |
| SC-150.02 | 10 min | 0.62 | 10 min | 0.70 | 10 min | 0.76 |
| SC-150.03 | 10 min | 1.61 | 10 min | 1.77 | 10 min | 1.95 |
| SC-150.04 | 10 min | 2.08 | 10 min | 2.30 | 10 min | 2.52 |
| SC-150.05 | 10 min | 2.95 | 10 min | 3.23 | 10 min | 3.55 |
| SC-150.06 | 10 min | 5.52 | 10 min | 6.09 | 10 min | 6.68 |
| SC-150.07 | 10 min | 8.70 | 10 min | 9.56 | 10 min | 10.51 |
| SC-150.08 | 6 hours | 3.14 | 6 hours | 4.15 | 6 hours | 4.57 |
| SC-150.09 | 6 hours | 3.35 | 6 hours | 4.38 | 6 hours | 4.83 |
| SC-150.10 | 6 hours | 4.12 | 6 hours | 5.19 | 6 hours | 5.72 |
| SC-150.11 | 10 min | 9.43 | 10 min | 10.38 | 10 min | 11.40 |
| SC-150.12 | 10 min | 14.63 | 10 min | 16.09 | 10 min | 17.66 |
| SC-150.13 | 10 min | 16.46 | 10 min | 18.12 | 10 min | 19.89 |
| SC-150.14 | 20 min | 23.09 | 20 min | 26.01 | 20 min | 28.90 |
| SC-150.15 | 20 min | 23.35 | 20 min | 26.30 | 20 min | 29.28 |
| SC-150.16 | 20 min | 24.72 | 20 min | 27.76 | 20 min | 30.86 |
| SC-150.17 | 20 min | 25.39 | 20 min | 28.42 | 20 min | 31.55 |
| SC-151.01 | 10 min | 0.42 | 10 min | 0.48 | 10 min | 0.53 |
| SC-151.02 | 10 min | 0.67 | 10 min | 0.74 | 10 min | 0.81 |
| SC-152.01 | 10 min | 0.39 | 10 min | 0.41 | 10 min | 0.45 |
| SC-153.01 | 10 min | 0.32 | 10 min | 0.35 | 10 min | 0.38 |
| SC-153.02 | 10 min | 0.75 | 10 min | 0.83 | 10 min | 0.91 |
| SC-154.01 | 10 min | 0.55 | 10 min | 0.61 | 10 min | 0.67 |
| SC-154.02 | 10 min | 1.98 | 10 min | 2.18 | 10 min | 2.39 |
| SC-155.01 | 10 min | 0.21 | 20 min | 0.22 | 20 min | 0.25 |
| SC-155.02 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.72 |

| Climate Change Sensitivity Results for 20% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-156.01 | 10 min | 0.24 | 10 min | 0.26 | 10 min | 0.28 |
| SC-157.01 | 10 min | 0.29 | 10 min | 0.32 | 10 min | 0.34 |
| SC-158.01 | 10 min | 0.36 | 10 min | 0.41 | 10 min | 0.45 |
| SC-158.02 | 10 min | 0.46 | 10 min | 0.52 | 10 min | 0.57 |
| SC-158.03 | 10 min | 1.02 | 10 min | 1.13 | 10 min | 1.24 |
| SC-158.04 | 10 min | 1.90 | 10 min | 2.10 | 10 min | 2.30 |
| SC-159.01 | 10 min | 0.28 | 10 min | 0.32 | 10 min | 0.35 |
| SC-16.01 | 10 min | 0.35 | 10 min | 0.39 | 10 min | 0.43 |
| SC-160.01 | 10 min | 0.28 | 10 min | 0.32 | 10 min | 0.35 |
| SC-160.02 | 10 min | 0.63 | 10 min | 0.70 | 10 min | 0.76 |
| SC-161.01 | 10 min | 0.34 | 10 min | 0.39 | 10 min | 0.42 |
| SC-161.02 | 10 min | 0.68 | 10 min | 0.74 | 10 min | 0.81 |
| SC-162.01 | 10 min | 0.42 | 10 min | 0.45 | 10 min | 0.49 |
| SC-163.01 | 10 min | 0.22 | 20 min | 0.24 | 20 min | 0.27 |
| SC-163.02 | 10 min | 0.43 | 20 min | 0.47 | 20 min | 0.52 |
| SC-163.03 | 10 min | 0.71 | 10 min | 0.80 | 10 min | 0.88 |
| SC-163.04 | 10 min | 1.01 | 10 min | 1.11 | 10 min | 1.23 |
| SC-163.05 | 10 min | 1.79 | 10 min | 1.97 | 10 min | 2.17 |
| SC-164.01 | 10 min | 0.37 | 10 min | 0.40 | 10 min | 0.43 |
| SC-165.01 | 10 min | 0.32 | 10 min | 0.34 | 10 min | 0.37 |
| SC-165.02 | 10 min | 0.81 | 10 min | 0.87 | 10 min | 0.95 |
| SC-165.03 | 10 min | 1.04 | 10 min | 1.13 | 10 min | 1.23 |
| SC-165.04 | 10 min | 2.20 | 10 min | 2.42 | 10 min | 2.66 |
| SC-165.05 | 10 min | 3.73 | 10 min | 4.10 | 10 min | 4.50 |
| SC-166.01 | 10 min | 0.29 | 10 min | 0.31 | 10 min | 0.34 |
| SC-167.01 | 10 min | 0.41 | 10 min | 0.46 | 10 min | 0.50 |
| SC-167.02 | 10 min | 1.03 | 10 min | 1.14 | 10 min | 1.25 |
| SC-168.01 | 10 min | 0.32 | 10 min | 0.36 | 10 min | 0.40 |
| SC-169.01 | 10 min | 0.32 | 10 min | 0.34 | 10 min | 0.38 |
| SC-169.02 | 10 min | 0.57 | 10 min | 0.62 | 10 min | 0.68 |
| SC-169.03 | 10 min | 1.27 | 10 min | 1.39 | 10 min | 1.53 |
| SC-17.01 | 10 min | 0.30 | 10 min | 0.34 | 10 min | 0.38 |
| SC-17.02 | 10 min | 0.54 | 10 min | 0.59 | 10 min | 0.65 |
| SC-17.03 | 10 min | 0.88 | 10 min | 0.97 | 10 min | 1.07 |
| SC-17.04 | 10 min | 2.07 | 10 min | 2.30 | 10 min | 2.56 |
| SC-17.05 | 10 min | 2.88 | 10 min | 3.21 | 10 min | 3.55 |
| SC-17.06 | 10 min | 3.33 | 10 min | 3.67 | 10 min | 4.02 |
| SC-17.07 | 10 min | 3.50 | 10 min | 3.86 | 10 min | 4.24 |
| SC-170.01 | 10 min | 0.28 | 10 min | 0.30 | 10 min | 0.33 |
| SC-171.01 | 10 min | 0.21 | 10 min | 0.22 | 10 min | 0.24 |
| SC-172.01 | 10 min | 0.40 | 10 min | 0.44 | 10 min | 0.49 |
| SC-172.02 | 10 min | 0.70 | 10 min | 0.76 | 10 min | 0.83 |
| SC-173.01 | 1 hour | 0.34 | 1 hour | 0.41 | 45 min | 0.45 |
| SC-173.02 | 20 min | 0.71 | 20 min | 0.84 | 20 min | 0.93 |

| Climate Change Sensitivity Results for 20% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-173.03 | 10 min | 0.78 | 20 min | 0.84 | 20 min | 0.96 |
| SC-173.04 | 10 min | 1.46 | 10 min | 1.62 | 10 min | 1.79 |
| SC-173.05 | 10 min | 1.75 | 10 min | 1.92 | 10 min | 2.11 |
| SC-174.01 | 10 min | 0.25 | 10 min | 0.28 | 10 min | 0.30 |
| SC-175.01 | 10 min | 0.43 | 10 min | 0.49 | 10 min | 0.54 |
| SC-175.02 | 10 min | 0.88 | 10 min | 0.97 | 10 min | 1.07 |
| SC-175.03 | 10 min | 1.41 | 10 min | 1.56 | 10 min | 1.71 |
| SC-175.04 | 10 min | 1.75 | 10 min | 1.93 | 10 min | 2.11 |
| SC-175.05 | 10 min | 2.00 | 10 min | 2.20 | 10 min | 2.41 |
| SC-176.01 | 10 min | 0.18 | 20 min | 0.19 | 20 min | 0.22 |
| SC-177.01 | 10 min | 0.25 | 10 min | 0.28 | 10 min | 0.30 |
| SC-177.02 | 10 min | 0.64 | 10 min | 0.71 | 10 min | 0.78 |
| SC-177.03 | 10 min | 1.77 | 10 min | 1.95 | 10 min | 2.15 |
| SC-177.04 | 10 min | 2.40 | 10 min | 2.67 | 10 min | 2.93 |
| SC-178.01 | 10 min | 0.52 | 10 min | 0.58 | 10 min | 0.64 |
| SC-178.02 | 10 min | 0.80 | 10 min | 0.88 | 10 min | 0.97 |
| SC-179.01 | 10 min | 0.43 | 10 min | 0.49 | 10 min | 0.53 |
| SC-18.01 | 10 min | 0.34 | 10 min | 0.38 | 10 min | 0.42 |
| SC-18.02 | 10 min | 0.53 | 10 min | 0.58 | 10 min | 0.65 |
| SC-180.01 | 10 min | 0.41 | 10 min | 0.46 | 10 min | 0.51 |
| SC-180.02 | 10 min | 0.72 | 10 min | 0.79 | 10 min | 0.87 |
| SC-180.03 | 10 min | 1.00 | 10 min | 1.11 | 10 min | 1.22 |
| SC-180.04 | 10 min | 1.44 | 10 min | 1.59 | 10 min | 1.75 |
| SC-181.01 | 10 min | 0.17 | 20 min | 0.19 | 20 min | 0.22 |
| SC-181.02 | 10 min | 0.61 | 10 min | 0.66 | 10 min | 0.73 |
| SC-181.03 | 10 min | 0.99 | 10 min | 1.10 | 10 min | 1.20 |
| SC-181.04 | 10 min | 1.77 | 10 min | 1.97 | 10 min | 2.17 |
| SC-181.05 | 10 min | 1.98 | 10 min | 2.19 | 10 min | 2.41 |
| SC-181.06 | 10 min | 2.21 | 10 min | 2.43 | 10 min | 2.67 |
| SC-181.07 | 10 min | 5.04 | 10 min | 5.56 | 10 min | 6.10 |
| SC-181.08 | 10 min | 5.16 | 10 min | 5.69 | 10 min | 6.26 |
| SC-182.01 | 10 min | 0.29 | 10 min | 0.33 | 10 min | 0.36 |
| SC-182.02 | 10 min | 0.47 | 10 min | 0.52 | 10 min | 0.57 |
| SC-182.03 | 10 min | 0.74 | 10 min | 0.83 | 20 min | 0.89 |
| SC-183.01 | 10 min | 0.27 | 10 min | 0.30 | 20 min | 0.33 |
| SC-183.02 | 10 min | 0.63 | 10 min | 0.69 | 10 min | 0.77 |
| SC-183.03 | 10 min | 1.60 | 10 min | 1.76 | 10 min | 1.94 |
| SC-183.04 | 10 min | 1.85 | 10 min | 2.04 | 10 min | 2.24 |
| SC-184.01 | 10 min | 0.68 | 10 min | 0.75 | 10 min | 0.82 |
| SC-185.01 | 10 min | 0.40 | 10 min | 0.45 | 10 min | 0.50 |
| SC-185.02 | 10 min | 0.89 | 10 min | 0.98 | 10 min | 1.08 |
| SC-186.01 | 10 min | 0.14 | 10 min | 0.16 | 10 min | 0.18 |
| SC-187.01 | 10 min | 0.42 | 10 min | 0.47 | 10 min | 0.51 |
| SC-187.02 | 10 min | 0.80 | 10 min | 0.89 | 10 min | 0.97 |

| Climate Change Sensitivity Results for 20% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-187.03 | 10 min | 0.96 | 10 min | 1.07 | 10 min | 1.17 |
| SC-187.04 | 10 min | 1.24 | 10 min | 1.37 | 10 min | 1.51 |
| SC-187.05 | 10 min | 1.48 | 10 min | 1.64 | 10 min | 1.80 |
| SC-188.01 | 10 min | 0.44 | 10 min | 0.49 | 10 min | 0.54 |
| SC-188.02 | 10 min | 0.66 | 10 min | 0.72 | 10 min | 0.79 |
| SC-189.01 | 10 min | 0.50 | 10 min | 0.55 | 10 min | 0.60 |
| SC-189.02 | 10 min | 0.89 | 10 min | 0.99 | 10 min | 1.08 |
| SC-19.01 | 10 min | 0.20 | 15 min | 0.22 | 10 min | 0.24 |
| SC-190.01 | 10 min | 0.22 | 10 min | 0.24 | 10 min | 0.27 |
| SC-191.01 | 10 min | 0.40 | 10 min | 0.44 | 10 min | 0.49 |
| SC-191.02 | 10 min | 0.57 | 10 min | 0.64 | 10 min | 0.70 |
| SC-191.03 | 10 min | 1.05 | 10 min | 1.15 | 10 min | 1.27 |
| SC-191.04 | 10 min | 1.52 | 10 min | 1.69 | 10 min | 1.86 |
| SC-191.05 | 10 min | 2.17 | 10 min | 2.40 | 10 min | 2.63 |
| SC-191.06 | 10 min | 3.73 | 10 min | 4.12 | 10 min | 4.53 |
| SC-191.07 | 10 min | 4.42 | 10 min | 4.90 | 10 min | 5.41 |
| SC-191.08 | 10 min | 4.85 | 10 min | 5.33 | 10 min | 5.86 |
| SC-192.01 | 10 min | 1.28 | 10 min | 1.40 | 10 min | 1.52 |
| SC-193.01 | 10 min | 0.54 | 10 min | 0.61 | 10 min | 0.67 |
| SC-194.01 | 10 min | 0.54 | 20 min | 0.60 | 20 min | 0.67 |
| SC-194.02 | 1 hour | 1.84 | 45 min | 2.13 | 45 min | 2.44 |
| SC-194.03 | 45 min | 2.03 | 45 min | 2.40 | 45 min | 2.76 |
| SC-195.01 | 45 min | 0.61 | 45 min | 0.74 | 45 min | 0.87 |
| SC-196.01 | 10 min | 1.76 | 10 min | 1.95 | 10 min | 2.17 |
| SC-197.01 | 10 min | 1.17 | 20 min | 1.28 | 20 min | 1.43 |
| SC-198.01 | 45 min | 1.03 | 25 min | 1.05 | 25 min | 1.18 |
| SC-2.01 | 10 min | 0.25 | 20 min | 0.27 | 20 min | 0.31 |
| SC-20.01 | 10 min | 0.27 | 10 min | 0.30 | 10 min | 0.33 |
| SC-200.01 | 10 min | 0.42 | 10 min | 0.44 | 10 min | 0.48 |
| SC-200.02 | 10 min | 0.70 | 10 min | 0.75 | 10 min | 0.82 |
| SC-200.03 | 10 min | 1.27 | 10 min | 1.40 | 10 min | 1.54 |
| SC-200.04 | 10 min | 1.82 | 10 min | 2.03 | 10 min | 2.25 |
| SC-200.05 | 10 min | 2.94 | 10 min | 3.28 | 10 min | 3.63 |
| SC-200.06 | 20 min | 4.27 | 20 min | 4.79 | 20 min | 5.28 |
| SC-200.07 | 20 min | 4.76 | 20 min | 5.40 | 20 min | 6.00 |
| SC-200.08 | 20 min | 5.37 | 20 min | 6.07 | 20 min | 6.74 |
| SC-200.09 | 45 min | 7.71 | 20 min | 8.83 | 20 min | 9.93 |
| SC-201.01 | 10 min | 0.48 | 10 min | 0.54 | 10 min | 0.59 |
| SC-202.01 | 10 min | 0.49 | 10 min | 0.55 | 10 min | 0.60 |
| SC-203.01 | 10 min | 0.51 | 10 min | 0.56 | 10 min | 0.61 |
| SC-204.01 | 20 min | 0.61 | 20 min | 0.69 | 20 min | 0.78 |
| SC-205.01 | 45 min | 0.22 | 25 min | 0.25 | 25 min | 0.27 |
| SC-206.01 | 45 min | 1.67 | 20 min | 1.98 | 15 min | 2.25 |
| SC-207.01 | 10 min | 0.50 | 10 min | 0.53 | 10 min | 0.58 |

| Climate Change Sensitivity Results for 20% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-207.02 | 10 min | 0.93 | 10 min | 1.01 | 10 min | 1.11 |
| SC-207.03 | 10 min | 1.01 | 10 min | 1.10 | 10 min | 1.21 |
| SC-207.04 | 10 min | 2.86 | 10 min | 3.17 | 10 min | 3.49 |
| SC-207.05 | 10 min | 3.90 | 10 min | 4.28 | 10 min | 4.69 |
| SC-207.06 | 10 min | 4.20 | 10 min | 4.63 | 10 min | 5.09 |
| SC-207.07 | 10 min | 6.45 | 10 min | 7.22 | 10 min | 8.02 |
| SC-207.08 | 10 min | 9.78 | 10 min | 10.87 | 10 min | 12.02 |
| SC-207.09 | 10 min | 10.80 | 10 min | 12.12 | 10 min | 13.51 |
| SC-207.10 | 20 min | 11.21 | 20 min | 12.66 | 20 min | 14.15 |
| SC-207.11 | 20 min | 11.97 | 20 min | 13.60 | 20 min | 15.25 |
| SC-207.12 | 20 min | 17.23 | 20 min | 19.43 | 20 min | 21.74 |
| SC-207.13 | 20 min | 18.12 | 20 min | 20.45 | 20 min | 22.90 |
| SC-207.14 | 20 min | 18.90 | 20 min | 21.33 | 20 min | 23.88 |
| SC-208.01 | 10 min | 0.52 | 10 min | 0.57 | 10 min | 0.63 |
| SC-208.02 | 10 min | 0.75 | 10 min | 0.82 | 10 min | 0.90 |
| SC-208.03 | 10 min | 0.98 | 10 min | 1.08 | 10 min | 1.18 |
| SC-208.04 | 10 min | 1.55 | 10 min | 1.70 | 10 min | 1.86 |
| SC-208.05 | 10 min | 1.80 | 10 min | 1.97 | 10 min | 2.16 |
| SC-209.01 | 10 min | 0.34 | 10 min | 0.36 | 10 min | 0.40 |
| SC-21.01 | 10 min | 0.39 | 10 min | 0.43 | 10 min | 0.47 |
| SC-210.01 | 10 min | 0.71 | 10 min | 0.78 | 10 min | 0.86 |
| SC-210.02 | 10 min | 0.99 | 10 min | 1.08 | 10 min | 1.18 |
| SC-211.01 | 1 hour | 0.21 | 45 min | 0.25 | 25 min | 0.27 |
| SC-211.02 | 45 min | 0.46 | 45 min | 0.56 | 45 min | 0.66 |
| SC-211.03 | 1 hour | 0.77 | 45 min | 0.91 | 45 min | 1.05 |
| SC-211.04 | 1 hour | 0.92 | 45 min | 1.09 | 45 min | 1.25 |
| SC-212.01 | 2 hours | 0.08 | 2 hours | 0.10 | 1.50 hour | 0.11 |
| SC-212.02 | 1 hour | 0.15 | 1 hour | 0.19 | 1 hour | 0.21 |
| SC-213.01 | 10 min | 0.30 | 10 min | 0.33 | 10 min | 0.36 |
| SC-213.02 | 10 min | 0.48 | 10 min | 0.54 | 10 min | 0.60 |
| SC-214.01 | 10 min | 0.36 | 10 min | 0.41 | 10 min | 0.45 |
| SC-214.02 | 10 min | 0.79 | 10 min | 0.88 | 10 min | 0.97 |
| SC-215.01 | 10 min | 0.30 | 10 min | 0.32 | 10 min | 0.35 |
| SC-215.02 | 10 min | 0.52 | 10 min | 0.58 | 10 min | 0.64 |
| SC-216.01 | 10 min | 0.27 | 10 min | 0.31 | 10 min | 0.34 |
| SC-216.02 | 10 min | 0.87 | 10 min | 0.94 | 10 min | 1.03 |
| SC-216.03 | 10 min | 1.35 | 10 min | 1.47 | 10 min | 1.60 |
| SC-216.04 | 10 min | 1.87 | 10 min | 2.04 | 10 min | 2.23 |
| SC-217.01 | 10 min | 0.20 | 10 min | 0.22 | 10 min | 0.24 |
| SC-218.01 | 10 min | 0.15 | 10 min | 0.17 | 10 min | 0.18 |
| SC-219.01 | 10 min | 0.20 | 10 min | 0.22 | 10 min | 0.24 |
| SC-22.01 | 10 min | 0.22 | 10 min | 0.24 | 10 min | 0.26 |
| SC-220.01 | 10 min | 0.30 | 10 min | 0.34 | 10 min | 0.37 |
| SC-221.01 | 10 min | 0.28 | 10 min | 0.31 | 10 min | 0.34 |

| Climate Change Sensitivity Results for 20% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-221.02 | 10 min | 0.60 | 10 min | 0.65 | 10 min | 0.71 |
| SC-221.03 | 10 min | 0.74 | 10 min | 0.81 | 10 min | 0.88 |
| SC-221.04 | 10 min | 1.08 | 10 min | 1.17 | 10 min | 1.29 |
| SC-221.05 | 10 min | 1.40 | 10 min | 1.53 | 10 min | 1.68 |
| SC-221.06 | 10 min | 1.49 | 10 min | 1.62 | 10 min | 1.77 |
| SC-222.01 | 10 min | 0.29 | 10 min | 0.33 | 10 min | 0.36 |
| SC-222.02 | 10 min | 0.47 | 10 min | 0.52 | 10 min | 0.57 |
| SC-222.03 | 20 min | 0.97 | 20 min | 1.10 | 20 min | 1.21 |
| SC-223.01 | 10 min | 0.13 | 10 min | 0.14 | 10 min | 0.16 |
| SC-224.01 | 45 min | 0.30 | 25 min | 0.31 | 20 min | 0.39 |
| SC-225.01 | 10 min | 0.24 | 10 min | 0.26 | 10 min | 0.28 |
| SC-226.01 | 10 min | 0.18 | 10 min | 0.20 | 10 min | 0.22 |
| SC-226.02 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.50 |
| SC-226.03 | 10 min | 0.84 | 10 min | 0.94 | 10 min | 1.04 |
| SC-226.04 | 10 min | 1.28 | 10 min | 1.42 | 10 min | 1.56 |
| SC-226.05 | 10 min | 4.98 | 10 min | 5.47 | 10 min | 6.04 |
| SC-226.06 | 10 min | 5.52 | 10 min | 6.04 | 10 min | 6.63 |
| SC-226.07 | 10 min | 5.99 | 10 min | 6.57 | 10 min | 7.22 |
| SC-226.08 | 10 min | 6.12 | 10 min | 6.77 | 10 min | 7.48 |
| SC-227.01 | 10 min | 0.10 | 10 min | 0.10 | 10 min | 0.11 |
| SC-228.01 | 10 min | 0.20 | 10 min | 0.22 | 10 min | 0.24 |
| SC-229.01 | 10 min | 0.14 | 10 min | 0.15 | 10 min | 0.17 |
| SC-23.01 | 10 min | 0.28 | 10 min | 0.32 | 10 min | 0.35 |
| SC-23.02 | 10 min | 0.81 | 10 min | 0.90 | 10 min | 1.00 |
| SC-23.03 | 10 min | 1.00 | 10 min | 1.12 | 10 min | 1.24 |
| SC-230.01 | 10 min | 0.14 | 10 min | 0.15 | 10 min | 0.16 |
| SC-231.01 | 10 min | 0.15 | 10 min | 0.16 | 10 min | 0.18 |
| SC-232.01 | 10 min | 0.40 | 10 min | 0.43 | 10 min | 0.47 |
| SC-232.02 | 10 min | 0.60 | 10 min | 0.66 | 10 min | 0.72 |
| SC-232.03 | 10 min | 1.37 | 10 min | 1.51 | 10 min | 1.66 |
| SC-233.01 | 10 min | 0.27 | 10 min | 0.30 | 10 min | 0.33 |
| SC-233.02 | 10 min | 0.43 | 10 min | 0.48 | 10 min | 0.53 |
| SC-234.01 | 10 min | 0.37 | 10 min | 0.42 | 10 min | 0.46 |
| SC-234.02 | 10 min | 0.75 | 10 min | 0.81 | 10 min | 0.90 |
| SC-234.03 | 10 min | 2.14 | 10 min | 2.37 | 10 min | 2.62 |
| SC-235.01 | 10 min | 0.14 | 10 min | 0.16 | 10 min | 0.17 |
| SC-236.01 | 10 min | 0.19 | 10 min | 0.20 | 10 min | 0.22 |
| SC-236.02 | 10 min | 0.29 | 10 min | 0.31 | 10 min | 0.34 |
| SC-237.01 | 10 min | 0.25 | 10 min | 0.27 | 10 min | 0.29 |
| SC-237.02 | 10 min | 0.49 | 20 min | 0.54 | 20 min | 0.61 |
| SC-238.01 | 10 min | 0.16 | 10 min | 0.18 | 10 min | 0.20 |
| SC-238.02 | 10 min | 0.38 | 10 min | 0.40 | 10 min | 0.44 |
| SC-239.01 | 10 min | 0.21 | 10 min | 0.23 | 10 min | 0.25 |
| SC-24.01 | 10 min | 0.25 | 10 min | 0.28 | 10 min | 0.30 |

## Climate Change Sensitivity Results for 20% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-240.01 | 45 min | 0.40 | 45 min | 0.49 | 25 min | 0.52 |
| SC-240.02 | 45 min | 0.61 | 25 min | 0.66 | 25 min | 0.76 |
| SC-241.01 | 45 min | 1.92 | 20 min | 2.24 | 20 min | 2.52 |
| SC-242.01 | 10 min | 0.30 | 10 min | 0.32 | 10 min | 0.35 |
| SC-242.02 | 10 min | 0.73 | 10 min | 0.81 | 10 min | 0.89 |
| SC-242.03 | 10 min | 1.09 | 10 min | 1.20 | 10 min | 1.32 |
| SC-242.04 | 10 min | 1.16 | 10 min | 1.28 | 10 min | 1.41 |
| SC-242.05 | 10 min | 2.59 | 10 min | 2.85 | 10 min | 3.13 |
| SC-242.06 | 10 min | 3.42 | 10 min | 3.77 | 10 min | 4.13 |
| SC-242.07 | 10 min | 3.50 | 10 min | 3.86 | 10 min | 4.25 |
| SC-242.08 | 45 min | 5.87 | 20 min | 6.34 | 20 min | 7.04 |
| SC-243.01 | 10 min | 0.27 | 10 min | 0.29 | 10 min | 0.32 |
| SC-243.02 | 10 min | 0.98 | 10 min | 1.09 | 10 min | 1.19 |
| SC-244.01 | 10 min | 0.37 | 10 min | 0.42 | 10 min | 0.46 |
| SC-245.01 | 10 min | 0.21 | 10 min | 0.22 | 10 min | 0.24 |
| SC-246.01 | 10 min | 0.13 | 10 min | 0.15 | 10 min | 0.16 |
| SC-246.02 | 20 min | 0.32 | 20 min | 0.35 | 20 min | 0.39 |
| SC-247.01 | 10 min | 0.35 | 10 min | 0.39 | 10 min | 0.43 |
| SC-247.02 | 20 min | 0.73 | 20 min | 0.89 | 20 min | 1.00 |
| SC-248.01 | 45 min | 0.34 | 20 min | 0.42 | 15 min | 0.48 |
| SC-249.01 | 45 min | 0.07 | 45 min | 0.10 | 25 min | 0.10 |
| SC-249.02 | 20 min | 0.26 | 20 min | 0.32 | 20 min | 0.35 |
| SC-249.03 | 10 min | 0.63 | 10 min | 0.70 | 20 min | 0.75 |
| SC-249.04 | 10 min | 1.61 | 10 min | 1.79 | 10 min | 1.96 |
| SC-249.05 | 10 min | 4.71 | 10 min | 5.24 | 10 min | 5.79 |
| SC-249.06 | 20 min | 6.55 | 20 min | 7.47 | 20 min | 8.37 |
| SC-25.01 | 10 min | 0.76 | 10 min | 0.84 | 10 min | 0.92 |
| SC-25.02 | 10 min | 1.08 | 10 min | 1.17 | 10 min | 1.28 |
| SC-25.03 | 10 min | 1.19 | 10 min | 1.29 | 10 min | 1.41 |
| SC-25.04 | 10 min | 1.92 | 10 min | 2.10 | 10 min | 2.29 |
| SC-250.01 | 10 min | 0.09 | 10 min | 0.10 | 10 min | 0.10 |
| SC-251.01 | 10 min | 0.21 | 10 min | 0.23 | 10 min | 0.25 |
| SC-252.01 | 10 min | 0.24 | 10 min | 0.25 | 10 min | 0.28 |
| SC-252.02 | 10 min | 0.45 | 10 min | 0.49 | 10 min | 0.54 |
| SC-253.01 | 10 min | 0.34 | 10 min | 0.39 | 10 min | 0.43 |
| SC-253.02 | 10 min | 1.25 | 10 min | 1.41 | 10 min | 1.55 |
| SC-253.03 | 10 min | 1.53 | 10 min | 1.72 | 10 min | 1.88 |
| SC-254.01 | 10 min | 0.35 | 10 min | 0.39 | 10 min | 0.43 |
| SC-255.01 | 10 min | 0.31 | 10 min | 0.36 | 10 min | 0.39 |
| SC-256.01 | 10 min | 0.29 | 10 min | 0.32 | 10 min | 0.36 |
| SC-257.01 | 10 min | 0.17 | 10 min | 0.19 | 10 min | 0.20 |
| SC-258.01 | 10 min | 0.75 | 10 min | 0.83 | 10 min | 0.91 |
| SC-258.02 | 20 min | 1.14 | 20 min | 1.29 | 20 min | 1.42 |
| SC-259.01 | 10 min | 0.33 | 10 min | 0.36 | 10 min | 0.40 |

## Climate Change Sensitivity Results for 20% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-259.02 | 10 min | 0.69 | 10 min | 0.76 | 10 min | 0.83 |
| SC-259.03 | 10 min | 0.97 | 10 min | 1.07 | 10 min | 1.18 |
| SC-259.04 | 10 min | 1.77 | 10 min | 1.95 | 10 min | 2.14 |
| SC-259.05 | 10 min | 2.18 | 10 min | 2.40 | 10 min | 2.64 |
| SC-259.06 | 10 min | 2.79 | 10 min | 3.07 | 10 min | 3.38 |
| SC-259.07 | 10 min | 3.67 | 10 min | 4.05 | 10 min | 4.45 |
| SC-259.08 | 10 min | 4.17 | 10 min | 4.64 | 10 min | 5.15 |
| SC-259.09 | 20 min | 9.30 | 20 min | 10.67 | 20 min | 12.05 |
| SC-259.10 | 20 min | 9.49 | 20 min | 10.90 | 20 min | 12.30 |
| SC-26.01 | 10 min | 0.23 | 10 min | 0.26 | 10 min | 0.28 |
| SC-260.01 | 10 min | 0.22 | 10 min | 0.24 | 10 min | 0.26 |
| SC-261.01 | 10 min | 0.29 | 10 min | 0.32 | 10 min | 0.35 |
| SC-262.01 | 10 min | 0.30 | 10 min | 0.35 | 10 min | 0.38 |
| SC-262.02 | 10 min | 0.58 | 10 min | 0.64 | 10 min | 0.70 |
| SC-263.01 | 10 min | 0.32 | 10 min | 0.36 | 10 min | 0.40 |
| SC-264.01 | 10 min | 0.19 | 10 min | 0.21 | 10 min | 0.23 |
| SC-265.01 | 10 min | 0.24 | 10 min | 0.26 | 10 min | 0.29 |
| SC-265.02 | 20 min | 0.56 | 20 min | 0.64 | 20 min | 0.71 |
| SC-265.03 | 45 min | 0.89 | 30 min | 1.04 | 30 min | 1.21 |
| SC-265.04 | 20 min | 4.16 | 20 min | 4.69 | 20 min | 5.28 |
| SC-266.01 | 10 min | 0.29 | 10 min | 0.33 | 10 min | 0.36 |
| SC-266.02 | 10 min | 0.59 | 10 min | 0.64 | 10 min | 0.70 |
| SC-266.03 | 10 min | 0.72 | 10 min | 0.79 | 10 min | 0.86 |
| SC-266.04 | 10 min | 2.60 | 20 min | 2.83 | 20 min | 3.17 |
| SC-266.05 | 10 min | 2.99 | 10 min | 3.31 | 10 min | 3.66 |
| SC-267.01 | 10 min | 0.29 | 10 min | 0.33 | 10 min | 0.36 |
| SC-268.01 | 10 min | 0.48 | 10 min | 0.54 | 10 min | 0.60 |
| SC-268.02 | 10 min | 1.27 | 10 min | 1.41 | 10 min | 1.54 |
| SC-269.01 | 10 min | 0.20 | 20 min | 0.23 | 20 min | 0.26 |
| SC-27.01 | 10 min | 0.23 | 10 min | 0.26 | 20 min | 0.28 |
| SC-270.01 | 20 min | 0.20 | 20 min | 0.23 | 20 min | 0.27 |
| SC-271.01 | 20 min | 0.13 | 20 min | 0.15 | 20 min | 0.17 |
| SC-272.01 | 20 min | 0.29 | 20 min | 0.34 | 20 min | 0.38 |
| SC-272.02 | 20 min | 0.65 | 20 min | 0.78 | 20 min | 0.88 |
| SC-272.03 | 20 min | 1.09 | 20 min | 1.28 | 20 min | 1.43 |
| SC-273.01 | 20 min | 0.31 | 20 min | 0.35 | 20 min | 0.39 |
| SC-274.01 | 1 hour | 0.15 | 1 hour | 0.16 | 1 hour | 0.18 |
| SC-274.02 | 10 min | 0.68 | 10 min | 0.76 | 10 min | 0.84 |
| SC-274.03 | 10 min | 1.65 | 10 min | 1.83 | 10 min | 2.01 |
| SC-274.04 | 10 min | 2.15 | 10 min | 2.37 | 10 min | 2.60 |
| SC-274.05 | 20 min | 2.60 | 20 min | 2.94 | 10 min | 3.39 |
| SC-275.01 | 10 min | 0.32 | 10 min | 0.35 | 10 min | 0.39 |
| SC-276.01 | 10 min | 0.24 | 10 min | 0.27 | 10 min | 0.29 |
| SC-277.01 | 10 min | 0.30 | 10 min | 0.33 | 10 min | 0.36 |

## Climate Change Sensitivity Results for 20% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-278.01 | 10 min | 0.19 | 10 min | 0.20 | 10 min | 0.22 |
| SC-278.02 | 20 min | 1.95 | 20 min | 2.33 | 15 min | 2.60 |
| SC-279.01 | 20 min | 0.29 | 20 min | 0.33 | 20 min | 0.37 |
| SC-279.02 | 20 min | 1.91 | 15 min | 2.18 | 15 min | 2.47 |
| SC-28.01 | 45 min | 0.18 | 25 min | 0.18 | 25 min | 0.20 |
| SC-28.02 | 20 min | 0.42 | 20 min | 0.48 | 20 min | 0.53 |
| SC-28.03 | 20 min | 0.60 | 20 min | 0.69 | 20 min | 0.78 |
| SC-28.04 | 10 min | 1.35 | 10 min | 1.50 | 20 min | 1.63 |
| SC-280.01 | 10 min | 0.28 | 10 min | 0.32 | 20 min | 0.34 |
| SC-29.01 | 10 min | 0.23 | 10 min | 0.26 | 10 min | 0.28 |
| SC-29.02 | 10 min | 0.64 | 10 min | 0.70 | 10 min | 0.76 |
| SC-3.01 | 20 min | 0.24 | 20 min | 0.29 | 20 min | 0.32 |
| SC-3.02 | 20 min | 0.80 | 20 min | 0.94 | 20 min | 1.06 |
| SC-30.01 | 10 min | 0.41 | 10 min | 0.46 | 10 min | 0.50 |
| SC-30.02 | 10 min | 0.73 | 10 min | 0.80 | 10 min | 0.88 |
| SC-30.03 | 10 min | 1.00 | 10 min | 1.10 | 10 min | 1.21 |
| SC-30.04 | 10 min | 1.28 | 10 min | 1.41 | 10 min | 1.55 |
| SC-31.01 | 10 min | 0.26 | 20 min | 0.29 | 20 min | 0.32 |
| SC-31.02 | 10 min | 0.55 | 10 min | 0.61 | 10 min | 0.68 |
| SC-32.01 | 45 min | 0.21 | 20 min | 0.24 | 20 min | 0.27 |
| SC-32.02 | 45 min | 0.31 | 25 min | 0.31 | 20 min | 0.40 |
| SC-33.01 | 10 min | 0.34 | 10 min | 0.38 | 10 min | 0.42 |
| SC-33.02 | 10 min | 0.77 | 10 min | 0.85 | 10 min | 0.93 |
| SC-34.01 | 10 min | 0.26 | 10 min | 0.29 | 10 min | 0.32 |
| SC-34.02 | 10 min | 0.53 | 10 min | 0.58 | 10 min | 0.64 |
| SC-34.03 | 10 min | 0.65 | 10 min | 0.71 | 10 min | 0.77 |
| SC-35.01 | 10 min | 0.25 | 10 min | 0.28 | 10 min | 0.30 |
| SC-35.02 | 10 min | 0.71 | 10 min | 0.77 | 10 min | 0.84 |
| SC-35.03 | 10 min | 1.14 | 10 min | 1.23 | 10 min | 1.34 |
| SC-35.04 | 10 min | 1.23 | 10 min | 1.32 | 10 min | 1.44 |
| SC-36.01 | 10 min | 0.52 | 10 min | 0.58 | 10 min | 0.63 |
| SC-36.02 | 10 min | 0.94 | 10 min | 1.04 | 10 min | 1.15 |
| SC-37.01 | 10 min | 0.21 | 10 min | 0.22 | 10 min | 0.25 |
| SC-37.02 | 10 min | 0.57 | 10 min | 0.62 | 10 min | 0.68 |
| SC-38.01 | 10 min | 0.24 | 10 min | 0.26 | 10 min | 0.29 |
| SC-39.01 | 10 min | 0.14 | 10 min | 0.15 | 10 min | 0.17 |
| SC-4.01 | 45 min | 0.26 | 20 min | 0.29 | 20 min | 0.34 |
| SC-40.01 | 10 min | 0.32 | 10 min | 0.34 | 10 min | 0.38 |
| SC-41.01 | 10 min | 0.22 | 10 min | 0.23 | 10 min | 0.26 |
| SC-42.01 | 10 min | 0.70 | 10 min | 0.77 | 10 min | 0.85 |
| SC-43.01 | 10 min | 0.16 | 10 min | 0.17 | 10 min | 0.19 |
| SC-44.01 | 10 min | 0.48 | 10 min | 0.54 | 10 min | 0.59 |
| SC-44.02 | 10 min | 0.78 | 10 min | 0.85 | 10 min | 0.93 |
| SC-44.03 | 10 min | 1.04 | 10 min | 1.15 | 10 min | 1.26 |

## Climate Change Sensitivity Results for 20% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-44.04 | 10 min | 1.56 | 10 min | 1.73 | 10 min | 1.91 |
| SC-44.05 | 10 min | 2.78 | 10 min | 3.07 | 10 min | 3.38 |
| SC-44.06 | 10 min | 2.97 | 10 min | 3.27 | 10 min | 3.58 |
| SC-44.07 | 20 min | 2.49 | 20 min | 2.68 | 20 min | 3.09 |
| SC-44.08 | 10 min | 3.27 | 20 min | 3.53 | 20 min | 3.92 |
| SC-44.09 | 20 min | 3.53 | 20 min | 3.89 | 20 min | 4.23 |
| SC-44.10 | 4.50 hours | 0.68 | 4.50 hours | 0.69 | 4.50 hours | 0.71 |
| SC-44.11 | 2 hours | 3.81 | 2 hours | 5.02 | 2 hours | 5.64 |
| SC-44.12 | 24 hours | 1.41 | 24 hours | 1.50 | 24 hours | 1.65 |
| SC-44.13 | 24 hours | 1.38 | 24 hours | 1.48 | 24 hours | 1.60 |
| SC-44.14 | 24 hours | 1.36 | 24 hours | 1.46 | 24 hours | 1.63 |
| SC-44.15 | 15 min | 1.92 | 20 min | 2.04 | 24 hours | 2.14 |
| SC-44.16 | 45 min | 2.01 | 45 min | 2.10 | 24 hours | 2.17 |
| SC-44.17 | 20 min | 4.57 | 20 min | 4.93 | 20 min | 5.38 |
| SC-44.18 | 20 min | 4.62 | 20 min | 5.00 | 20 min | 5.47 |
| SC-44.19 | 20 min | 5.10 | 20 min | 5.65 | 20 min | 6.20 |
| SC-44.20 | 45 min | 5.11 | 45 min | 5.68 | 45 min | 6.24 |
| SC-45.01 | 10 min | 0.34 | 10 min | 0.39 | 10 min | 0.43 |
| SC-46.01 | 10 min | 0.29 | 10 min | 0.33 | 10 min | 0.36 |
| SC-46.02 | 10 min | 0.49 | 10 min | 0.54 | 10 min | 0.59 |
| SC-46.03 | 10 min | 0.73 | 10 min | 0.81 | 10 min | 0.90 |
| SC-46.04 | 10 min | 0.83 | 10 min | 0.92 | 10 min | 1.01 |
| SC-47.01 | 10 min | 0.46 | 10 min | 0.52 | 10 min | 0.57 |
| SC-48.01 | 10 min | 0.35 | 10 min | 0.40 | 10 min | 0.44 |
| SC-48.02 | 10 min | 0.55 | 10 min | 0.61 | 10 min | 0.68 |
| SC-49.01 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.50 |
| SC-5.01 | 10 min | 0.25 | 10 min | 0.27 | 10 min | 0.30 |
| SC-50.01 | 10 min | 0.14 | 15 min | 0.15 | 10 min | 0.17 |
| SC-51.01 | 10 min | 0.14 | 10 min | 0.16 | 10 min | 0.17 |
| SC-52.01 | 10 min | 0.15 | 10 min | 0.16 | 10 min | 0.18 |
| SC-53.01 | 10 min | 0.34 | 10 min | 0.39 | 10 min | 0.42 |
| SC-53.02 | 10 min | 0.69 | 10 min | 0.77 | 10 min | 0.86 |
| SC-53.03 | 10 min | 0.85 | 10 min | 0.93 | 10 min | 1.02 |
| SC-54.01 | 10 min | 0.28 | 10 min | 0.32 | 10 min | 0.35 |
| SC-54.02 | 10 min | 0.53 | 10 min | 0.59 | 10 min | 0.65 |
| SC-55.01 | 10 min | 0.44 | 10 min | 0.49 | 10 min | 0.54 |
| SC-56.01 | 10 min | 0.20 | 10 min | 0.22 | 10 min | 0.24 |
| SC-57.01 | 20 min | 0.14 | 20 min | 0.16 | 20 min | 0.18 |
| SC-58.01 | 10 min | 0.28 | 10 min | 0.31 | 10 min | 0.34 |
| SC-59.01 | 10 min | 0.36 | 10 min | 0.41 | 10 min | 0.46 |
| SC-59.02 | 10 min | 0.72 | 10 min | 0.80 | 10 min | 0.88 |
| SC-59.03 | 10 min | 1.04 | 10 min | 1.15 | 10 min | 1.28 |
| SC-59.04 | 10 min | 1.33 | 10 min | 1.47 | 10 min | 1.63 |
| SC-59.05 | 10 min | 2.79 | 10 min | 3.11 | 10 min | 3.45 |

## Climate Change Sensitivity Results for 20% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-59.06 | 10 min | 3.30 | 10 min | 3.64 | 10 min | 4.03 |
| SC-59.07 | 10 min | 5.49 | 10 min | 6.12 | 20 min | 6.69 |
| SC-59.08 | 45 min | 5.09 | 20 min | 5.68 | 20 min | 6.23 |
| SC-59.09 | 45 min | 6.08 | 45 min | 6.84 | 45 min | 7.76 |
| SC-59.10 | 2 hours | 3.73 | 1 hour | 5.21 | 1 hour | 6.17 |
| SC-6.01 | 10 min | 0.32 | 10 min | 0.37 | 10 min | 0.40 |
| SC-60.01 | 20 min | 0.23 | 20 min | 0.27 | 20 min | 0.30 |
| SC-60.02 | 10 min | 0.99 | 20 min | 1.07 | 20 min | 1.21 |
| SC-61.01 | 15 min | 0.54 | 20 min | 0.56 | 20 min | 0.63 |
| SC-62.01 | 10 min | 0.34 | 10 min | 0.38 | 10 min | 0.42 |
| SC-63.01 | 20 min | 0.17 | 20 min | 0.20 | 20 min | 0.23 |
| SC-64.01 | 10 min | 0.25 | 10 min | 0.28 | 10 min | 0.30 |
| SC-64.02 | 10 min | 0.84 | 10 min | 0.94 | 10 min | 1.03 |
| SC-64.03 | 10 min | 1.57 | 10 min | 1.75 | 10 min | 1.94 |
| SC-64.04 | 10 min | 2.15 | 20 min | 2.34 | 20 min | 2.62 |
| SC-65.01 | 10 min | 0.20 | 10 min | 0.21 | 10 min | 0.23 |
| SC-66.01 | 10 min | 0.16 | 15 min | 0.17 | 10 min | 0.19 |
| SC-66.02 | 20 min | 0.31 | 20 min | 0.38 | 20 min | 0.43 |
| SC-67.01 | 10 min | 0.29 | 10 min | 0.32 | 10 min | 0.35 |
| SC-68.01 | 10 min | 0.39 | 10 min | 0.43 | 10 min | 0.48 |
| SC-68.02 | 10 min | 0.73 | 10 min | 0.80 | 10 min | 0.89 |
| SC-68.03 | 10 min | 1.34 | 10 min | 1.49 | 10 min | 1.63 |
| SC-69.01 | 10 min | 0.34 | 10 min | 0.38 | 10 min | 0.41 |
| SC-7.01 | 10 min | 0.42 | 10 min | 0.47 | 10 min | 0.52 |
| SC-70.01 | 10 min | 0.31 | 10 min | 0.35 | 10 min | 0.38 |
| SC-70.02 | 10 min | 0.49 | 10 min | 0.54 | 10 min | 0.59 |
| SC-71.01 | 10 min | 0.38 | 10 min | 0.43 | 10 min | 0.48 |
| SC-71.02 | 10 min | 0.73 | 10 min | 0.81 | 10 min | 0.89 |
| SC-72.01 | 10 min | 0.42 | 10 min | 0.47 | 10 min | 0.51 |
| SC-73.01 | 10 min | 0.33 | 10 min | 0.37 | 10 min | 0.41 |
| SC-74.01 | 10 min | 0.38 | 10 min | 0.43 | 10 min | 0.48 |
| SC-75.01 | 20 min | 0.22 | 20 min | 0.24 | 20 min | 0.28 |
| SC-75.02 | 20 min | 0.86 | 20 min | 0.96 | 20 min | 1.09 |
| SC-75.03 | 10 min | 1.28 | 20 min | 1.39 | 20 min | 1.57 |
| SC-75.04 | 10 min | 2.26 | 10 min | 2.50 | 20 min | 2.73 |
| SC-76.01 | 20 min | 0.27 | 20 min | 0.32 | 20 min | 0.36 |
| SC-77.01 | 10 min | 0.46 | 10 min | 0.51 | 10 min | 0.56 |
| SC-77.02 | 10 min | 0.70 | 10 min | 0.78 | 10 min | 0.85 |
| SC-77.03 | 10 min | 0.98 | 10 min | 1.08 | 10 min | 1.18 |
| SC-78.01 | 10 min | 0.43 | 10 min | 0.48 | 10 min | 0.53 |
| SC-79.01 | 10 min | 0.50 | 10 min | 0.53 | 10 min | 0.58 |
| SC-79.02 | 10 min | 0.90 | 10 min | 0.97 | 10 min | 1.06 |
| SC-79.03 | 10 min | 1.90 | 10 min | 2.09 | 10 min | 2.30 |
| SC-8.01 | 10 min | 0.35 | 10 min | 0.40 | 10 min | 0.44 |

## Climate Change Sensitivity Results for 20% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-8.02 | 10 min | 0.86 | 10 min | 0.96 | 10 min | 1.07 |
| SC-8.03 | 10 min | 2.27 | 10 min | 2.50 | 10 min | 2.76 |
| SC-8.04 | 10 min | 3.96 | 10 min | 4.38 | 10 min | 4.83 |
| SC-8.05 | 10 min | 4.39 | 10 min | 4.85 | 10 min | 5.32 |
| SC-8.06 | 10 min | 4.63 | 10 min | 5.11 | 10 min | 5.60 |
| SC-80.01 | 10 min | 0.46 | 10 min | 0.51 | 10 min | 0.56 |
| SC-80.02 | 10 min | 0.89 | 10 min | 0.99 | 10 min | 1.08 |
| SC-81.01 | 10 min | 0.33 | 10 min | 0.37 | 10 min | 0.40 |
| SC-81.02 | 10 min | 0.98 | 10 min | 1.08 | 10 min | 1.18 |
| SC-82.01 | 10 min | 0.40 | 10 min | 0.45 | 10 min | 0.49 |
| SC-83.01 | 10 min | 0.25 | 10 min | 0.28 | 10 min | 0.31 |
| SC-84.01 | 10 min | 0.38 | 10 min | 0.42 | 10 min | 0.46 |
| SC-84.02 | 10 min | 0.92 | 10 min | 1.03 | 10 min | 1.13 |
| SC-84.03 | 10 min | 1.20 | 10 min | 1.34 | 10 min | 1.47 |
| SC-84.04 | 10 min | 1.43 | 10 min | 1.58 | 10 min | 1.74 |
| SC-84.05 | 10 min | 1.73 | 10 min | 1.91 | 10 min | 2.09 |
| SC-84.06 | 10 min | 1.93 | 10 min | 2.13 | 10 min | 2.33 |
| SC-85.01 | 10 min | 0.24 | 10 min | 0.26 | 10 min | 0.29 |
| SC-86.01 | 10 min | 0.35 | 10 min | 0.40 | 10 min | 0.44 |
| SC-86.02 | 10 min | 0.70 | 10 min | 0.77 | 10 min | 0.85 |
| SC-87.01 | 10 min | 0.53 | 10 min | 0.58 | 10 min | 0.64 |
| SC-87.02 | 10 min | 0.91 | 10 min | 0.99 | 10 min | 1.08 |
| SC-88.01 | 10 min | 0.24 | 10 min | 0.26 | 10 min | 0.29 |
| SC-88.02 | 10 min | 0.38 | 10 min | 0.42 | 10 min | 0.46 |
| SC-89.01 | 10 min | 0.26 | 10 min | 0.28 | 10 min | 0.31 |
| SC-89.02 | 10 min | 0.28 | 10 min | 0.30 | 10 min | 0.33 |
| SC-9.01 | 10 min | 0.33 | 10 min | 0.38 | 10 min | 0.41 |
| SC-90.01 | 10 min | 0.10 | 10 min | 0.11 | 10 min | 0.12 |
| SC-91.01 | 10 min | 0.30 | 10 min | 0.34 | 10 min | 0.38 |
| SC-91.02 | 10 min | 0.62 | 10 min | 0.70 | 10 min | 0.77 |
| SC-92.01 | 10 min | 0.30 | 10 min | 0.33 | 10 min | 0.36 |
| SC-92.02 | 10 min | 0.83 | 10 min | 0.92 | 10 min | 1.02 |
| SC-93.01 | 10 min | 0.32 | 10 min | 0.37 | 10 min | 0.40 |
| SC-94.01 | 10 min | 0.37 | 10 min | 0.41 | 10 min | 0.45 |
| SC-94.02 | 10 min | 0.85 | 10 min | 0.94 | 10 min | 1.03 |
| SC-95.01 | 10 min | 0.22 | 10 min | 0.24 | 10 min | 0.27 |
| SC-95.02 | 10 min | 0.53 | 10 min | 0.59 | 10 min | 0.64 |
| SC-96.01 | 10 min | 0.25 | 10 min | 0.27 | 10 min | 0.30 |
| SC-97.01 | 10 min | 0.17 | 10 min | 0.18 | 10 min | 0.20 |
| SC-97.02 | 10 min | 0.96 | 10 min | 1.04 | 10 min | 1.15 |
| SC-98.01 | 10 min | 0.28 | 10 min | 0.31 | 10 min | 0.34 |
| SC-99.01 | 10 min | 0.28 | 10 min | 0.31 | 10 min | 0.34 |
| SC-99.02 | 10 min | 0.73 | 10 min | 0.82 | 10 min | 0.90 |
| SC-99.03 | 10 min | 1.27 | 10 min | 1.41 | 10 min | 1.57 |

| Climate Change Sensitivity Results for 20% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-99.04 | 10 min | 3.36 | 10 min | 3.68 | 10 min | 4.03 |
| Dummy1 | 20 min | 14.66 | 20 min | 16.71 | 20 min | 19.08 |
| Dummy2 | 45 min | 26.92 | 45 min | 30.47 | 45 min | 34.00 |
| Dummy3 | 45 min | 55.30 | 45 min | 62.03 | 45 min | 68.79 |
| DummyOut | 45 min | 57.46 | 45 min | 64.61 | 45 min | 71.34 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 10 min | 0.93 | 10 min | 1.02 | 10 min | 1.13 |
| SC-1.02 | 10 min | 2.00 | 10 min | 2.23 | 10 min | 2.45 |
| SC-1.03 | 10 min | 2.38 | 10 min | 2.61 | 10 min | 2.86 |
| SC-1.04 | 10 min | 6.27 | 10 min | 6.90 | 10 min | 7.58 |
| SC-1.05 | 10 min | 6.82 | 10 min | 7.51 | 10 min | 8.25 |
| SC-1.06 | 10 min | 7.79 | 10 min | 8.58 | 10 min | 9.44 |
| SC-1.07 | 10 min | 7.91 | 10 min | 8.77 | 10 min | 9.67 |
| SC-1.08 | 45 min | 8.71 | 45 min | 9.95 | 45 min | 11.29 |
| SC-1.09 | 45 min | 9.35 | 45 min | 10.62 | 45 min | 11.98 |
| SC-1.10 | 45 min | 9.36 | 45 min | 10.63 | 45 min | 12.00 |
| SC-1.11 | 10 min | 13.59 | 10 min | 14.95 | 10 min | 16.42 |
| SC-1.12 | 10 min | 16.99 | 10 min | 18.72 | 10 min | 20.58 |
| SC-1.13 | 10 min | 19.43 | 10 min | 21.41 | 10 min | 23.56 |
| SC-1.14 | 10 min | 23.13 | 10 min | 25.54 | 10 min | 28.13 |
| SC-1.15 | 10 min | 25.02 | 10 min | 27.63 | 10 min | 30.45 |
| SC-1.16 | 15 min | 28.64 | 15 min | 31.57 | 15 min | 34.76 |
| SC-1.17 | 15 min | 28.95 | 15 min | 31.96 | 15 min | 35.18 |
| SC-1.18 | 30 min | 18.10 | 45 min | 19.89 | 45 min | 21.38 |
| SC-1.19 | 1 hour | 22.75 | 1 hour | 25.56 | 1 hour | 28.00 |
| SC-1.20 | 1 hour | 20.73 | 1 hour | 23.00 | 1 hour | 24.05 |
| SC-1.21 | 1 hour | 20.74 | 1 hour | 23.02 | 1.50 hour | 24.18 |
| SC-1.22 | 1.50 hour | 20.92 | 1 hour | 23.09 | 1.50 hour | 24.86 |
| SC-1.23 | 1.50 hour | 23.45 | 1.50 hour | 26.34 | 1.50 hour | 29.03 |
| SC-1.24 | 20 min | 31.77 | 20 min | 34.65 | 20 min | 37.73 |
| SC-1.25 | 25 min | 32.54 | 25 min | 35.55 | 15 min | 38.43 |
| SC-1.26 | 25 min | 35.37 | 25 min | 38.76 | 25 min | 42.42 |
| SC-1.27 | 25 min | 35.95 | 25 min | 39.47 | 25 min | 43.36 |
| SC-1.28 | 15 min | 47.23 | 15 min | 51.97 | 15 min | 57.08 |
| SC-1.29 | 25 min | 49.56 | 25 min | 54.57 | 25 min | 59.97 |
| SC-1.30 | 25 min | 50.66 | 25 min | 55.94 | 25 min | 61.46 |
| SC-1.31 | 25 min | 51.58 | 25 min | 56.73 | 25 min | 62.30 |
| SC-1.32 | 25 min | 52.64 | 25 min | 57.88 | 25 min | 63.55 |
| SC-1.33 | 30 min | 54.45 | 30 min | 59.82 | 30 min | 65.56 |
| SC-1.34 | 30 min | 54.52 | 30 min | 59.89 | 30 min | 65.63 |
| SC-1.35 | 30 min | 54.65 | 30 min | 60.09 | 30 min | 65.94 |
| SC-1.36 | 30 min | 57.49 | 30 min | 63.31 | 30 min | 69.55 |
| SC-10.01 | 10 min | 0.97 | 10 min | 1.06 | 10 min | 1.16 |
| SC-100.01 | 10 min | 1.14 | 10 min | 1.25 | 10 min | 1.37 |
| SC-100.02 | 10 min | 1.95 | 10 min | 2.14 | 10 min | 2.35 |
| SC-101.01 | 10 min | 1.18 | 10 min | 1.30 | 10 min | 1.44 |
| SC-101.02 | 10 min | 2.05 | 10 min | 2.25 | 10 min | 2.48 |
| SC-102.01 | 10 min | 0.94 | 10 min | 1.03 | 10 min | 1.13 |
| SC-102.02 | 10 min | 3.50 | 10 min | 3.85 | 10 min | 4.24 |
| SC-103.01 | 10 min | 0.63 | 10 min | 0.69 | 10 min | 0.75 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-103.02 | 10 min | 2.17 | 10 min | 2.39 | 10 min | 2.63 |
| SC-104.01 | 10 min | 0.56 | 10 min | 0.62 | 10 min | 0.67 |
| SC-105.01 | 10 min | 0.60 | 10 min | 0.66 | 10 min | 0.73 |
| SC-105.02 | 10 min | 1.41 | 10 min | 1.55 | 10 min | 1.71 |
| SC-105.03 | 10 min | 3.29 | 10 min | 3.63 | 10 min | 3.99 |
| SC-105.04 | 10 min | 4.44 | 10 min | 4.87 | 10 min | 5.33 |
| SC-105.05 | 10 min | 5.26 | 10 min | 5.81 | 10 min | 6.42 |
| SC-105.06 | 10 min | 5.54 | 10 min | 6.15 | 10 min | 6.81 |
| SC-105.07 | 15 min | 8.11 | 15 min | 9.02 | 10 min | 10.07 |
| SC-105.08 | 15 min | 9.32 | 15 min | 10.38 | 15 min | 11.45 |
| SC-105.09 | 10 min | 12.28 | 10 min | 13.56 | 10 min | 14.97 |
| SC-106.01 | 10 min | 0.44 | 10 min | 0.48 | 10 min | 0.52 |
| SC-107.01 | 10 min | 0.76 | 10 min | 0.84 | 10 min | 0.92 |
| SC-108.01 | 10 min | 0.56 | 10 min | 0.62 | 10 min | 0.67 |
| SC-109.01 | 10 min | 0.73 | 10 min | 0.80 | 10 min | 0.87 |
| SC-11.01 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.72 |
| SC-110.01 | 10 min | 0.67 | 10 min | 0.74 | 10 min | 0.81 |
| SC-110.02 | 10 min | 1.50 | 10 min | 1.65 | 10 min | 1.82 |
| SC-110.03 | 10 min | 1.64 | 10 min | 1.79 | 10 min | 1.96 |
| SC-111.01 | 20 min | 0.45 | 15 min | 0.50 | 15 min | 0.55 |
| SC-112.01 | 10 min | 1.13 | 10 min | 1.24 | 10 min | 1.36 |
| SC-113.01 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.49 |
| SC-113.02 | 10 min | 1.30 | 10 min | 1.43 | 10 min | 1.58 |
| SC-114.01 | 10 min | 0.71 | 10 min | 0.79 | 10 min | 0.87 |
| SC-114.02 | 10 min | 1.14 | 10 min | 1.25 | 10 min | 1.37 |
| SC-114.03 | 10 min | 2.34 | 10 min | 2.58 | 10 min | 2.84 |
| SC-115.01 | 10 min | 0.65 | 10 min | 0.71 | 10 min | 0.78 |
| SC-115.02 | 10 min | 1.04 | 10 min | 1.14 | 10 min | 1.26 |
| SC-116.01 | 10 min | 0.64 | 10 min | 0.71 | 10 min | 0.77 |
| SC-116.02 | 10 min | 1.03 | 10 min | 1.13 | 10 min | 1.24 |
| SC-117.01 | 10 min | 0.38 | 10 min | 0.41 | 10 min | 0.45 |
| SC-118.01 | 10 min | 0.83 | 10 min | 0.91 | 10 min | 1.00 |
| SC-119.01 | 10 min | 1.26 | 10 min | 1.39 | 10 min | 1.53 |
| SC-119.02 | 10 min | 3.14 | 10 min | 3.45 | 10 min | 3.78 |
| SC-12.01 | 10 min | 0.69 | 10 min | 0.75 | 10 min | 0.82 |
| SC-12.02 | 10 min | 1.20 | 10 min | 1.32 | 10 min | 1.45 |
| SC-12.03 | 10 min | 2.19 | 10 min | 2.39 | 10 min | 2.62 |
| SC-12.04 | 10 min | 2.79 | 10 min | 3.06 | 10 min | 3.35 |
| SC-120.01 | 10 min | 0.57 | 10 min | 0.62 | 10 min | 0.68 |
| SC-121.01 | 10 min | 0.71 | 10 min | 0.78 | 10 min | 0.85 |
| SC-122.01 | 10 min | 1.16 | 10 min | 1.27 | 10 min | 1.39 |
| SC-122.02 | 10 min | 1.79 | 10 min | 1.97 | 10 min | 2.16 |
| SC-122.03 | 10 min | 2.41 | 10 min | 2.66 | 10 min | 2.92 |
| SC-123.01 | 10 min | 0.58 | 10 min | 0.64 | 10 min | 0.71 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-123.02 | 10 min | 1.62 | 10 min | 1.79 | 10 min | 1.97 |
| SC-123.03 | 10 min | 10.91 | 10 min | 11.98 | 10 min | 13.20 |
| SC-123.04 | 10 min | 11.19 | 10 min | 12.28 | 10 min | 13.46 |
| SC-123.05 | 10 min | 14.12 | 10 min | 15.62 | 10 min | 17.26 |
| SC-123.06 | 10 min | 14.54 | 10 min | 16.04 | 10 min | 17.59 |
| SC-123.07 | 10 min | 15.60 | 10 min | 17.19 | 10 min | 18.90 |
| SC-124.01 | 20 min | 0.70 | 20 min | 0.78 | 20 min | 0.87 |
| SC-124.02 | 20 min | 4.51 | 20 min | 4.99 | 20 min | 5.51 |
| SC-125.01 | 20 min | 0.97 | 20 min | 1.07 | 20 min | 1.18 |
| SC-126.01 | 10 min | 0.54 | 10 min | 0.59 | 10 min | 0.65 |
| SC-126.02 | 20 min | 1.30 | 20 min | 1.44 | 20 min | 1.61 |
| SC-126.03 | 20 min | 2.40 | 20 min | 2.64 | 20 min | 2.91 |
| SC-127.01 | 10 min | 1.28 | 10 min | 1.41 | 10 min | 1.54 |
| SC-127.02 | 10 min | 3.43 | 10 min | 3.76 | 10 min | 4.12 |
| SC-128.01 | 10 min | 1.25 | 10 min | 1.38 | 10 min | 1.52 |
| SC-129.01 | 10 min | 0.61 | 10 min | 0.67 | 10 min | 0.73 |
| SC-13.01 | 10 min | 0.63 | 10 min | 0.69 | 10 min | 0.76 |
| SC-130.01 | 10 min | 0.94 | 10 min | 1.03 | 10 min | 1.13 |
| SC-131.01 | 10 min | 0.37 | 10 min | 0.41 | 10 min | 0.44 |
| SC-132.01 | 10 min | 0.52 | 10 min | 0.57 | 10 min | 0.62 |
| SC-133.01 | 10 min | 0.38 | 10 min | 0.42 | 10 min | 0.46 |
| SC-134.01 | 10 min | 0.32 | 10 min | 0.35 | 10 min | 0.38 |
| SC-134.02 | 10 min | 1.02 | 10 min | 1.13 | 10 min | 1.25 |
| SC-134.03 | 10 min | 2.07 | 10 min | 2.31 | 10 min | 2.56 |
| SC-134.04 | 10 min | 2.93 | 10 min | 3.29 | 10 min | 3.68 |
| SC-135.01 | 10 min | 0.25 | 10 min | 0.28 | 10 min | 0.30 |
| SC-135.02 | 10 min | 1.39 | 10 min | 1.54 | 10 min | 1.69 |
| SC-135.03 | 10 min | 1.83 | 10 min | 2.02 | 10 min | 2.22 |
| SC-135.04 | 10 min | 4.06 | 10 min | 4.47 | 10 min | 4.93 |
| SC-135.05 | 10 min | 4.60 | 10 min | 5.07 | 10 min | 5.58 |
| SC-135.06 | 10 min | 7.50 | 10 min | 8.28 | 10 min | 9.10 |
| SC-136.01 | 10 min | 0.76 | 10 min | 0.84 | 10 min | 0.92 |
| SC-137.01 | 10 min | 0.77 | 10 min | 0.85 | 10 min | 0.94 |
| SC-138.01 | 10 min | 0.92 | 10 min | 1.02 | 10 min | 1.12 |
| SC-139.01 | 10 min | 0.90 | 10 min | 0.99 | 10 min | 1.09 |
| SC-139.02 | 10 min | 1.09 | 10 min | 1.21 | 10 min | 1.32 |
| SC-14.01 | 10 min | 1.11 | 10 min | 1.22 | 10 min | 1.34 |
| SC-14.02 | 10 min | 1.69 | 10 min | 1.86 | 10 min | 2.04 |
| SC-14.03 | 10 min | 2.21 | 10 min | 2.43 | 10 min | 2.66 |
| SC-140.01 | 10 min | 0.64 | 10 min | 0.70 | 10 min | 0.77 |
| SC-141.01 | 10 min | 1.04 | 10 min | 1.15 | 10 min | 1.26 |
| SC-142.01 | 20 min | 1.55 | 20 min | 1.71 | 20 min | 1.90 |
| SC-143.01 | 20 min | 0.61 | 20 min | 0.68 | 20 min | 0.75 |
| SC-143.02 | 10 min | 4.94 | 10 min | 5.49 | 10 min | 6.08 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-144.01 | 10 min | 0.73 | 10 min | 0.81 | 10 min | 0.89 |
| SC-144.02 | 10 min | 1.04 | 10 min | 1.15 | 10 min | 1.27 |
| SC-144.03 | 10 min | 1.38 | 10 min | 1.52 | 10 min | 1.68 |
| SC-144.04 | 10 min | 2.44 | 10 min | 2.70 | 10 min | 2.98 |
| SC-144.05 | 10 min | 4.60 | 10 min | 5.08 | 10 min | 5.60 |
| SC-145.01 | 10 min | 0.94 | 10 min | 1.04 | 10 min | 1.15 |
| SC-145.02 | 10 min | 1.74 | 10 min | 1.91 | 10 min | 2.10 |
| SC-146.01 | 15 min | 1.75 | 15 min | 1.95 | 15 min | 2.16 |
| SC-147.01 | 10 min | 0.92 | 10 min | 1.03 | 10 min | 1.14 |
| SC-147.02 | 10 min | 1.25 | 10 min | 1.40 | 10 min | 1.56 |
| SC-147.03 | 10 min | 3.19 | 10 min | 3.54 | 10 min | 3.90 |
| SC-148.01 | 10 min | 0.78 | 10 min | 0.86 | 10 min | 0.94 |
| SC-148.02 | 10 min | 1.67 | 10 min | 1.84 | 10 min | 2.01 |
| SC-149.01 | 10 min | 0.56 | 10 min | 0.62 | 10 min | 0.68 |
| SC-149.02 | 10 min | 1.83 | 10 min | 2.01 | 10 min | 2.21 |
| SC-15.01 | 10 min | 1.13 | 10 min | 1.24 | 10 min | 1.36 |
| SC-15.02 | 10 min | 1.48 | 10 min | 1.62 | 10 min | 1.78 |
| SC-15.03 | 10 min | 2.33 | 10 min | 2.57 | 10 min | 2.82 |
| SC-150.01 | 10 min | 0.68 | 10 min | 0.74 | 10 min | 0.81 |
| SC-150.02 | 10 min | 1.31 | 10 min | 1.44 | 10 min | 1.59 |
| SC-150.03 | 10 min | 3.32 | 10 min | 3.66 | 10 min | 4.03 |
| SC-150.04 | 10 min | 4.30 | 10 min | 4.72 | 10 min | 5.18 |
| SC-150.05 | 10 min | 5.94 | 10 min | 6.55 | 10 min | 7.21 |
| SC-150.06 | 10 min | 11.00 | 10 min | 12.08 | 10 min | 13.25 |
| SC-150.07 | 10 min | 17.06 | 10 min | 18.73 | 10 min | 20.56 |
| SC-150.08 | 2 hours | 9.68 | 2 hours | 12.54 | 45 min | 13.26 |
| SC-150.09 | 2 hours | 10.19 | 2 hours | 12.93 | 45 min | 13.97 |
| SC-150.10 | 2 hours | 12.14 | 2 hours | 15.91 | 45 min | 17.35 |
| SC-150.11 | 10 min | 18.60 | 10 min | 20.47 | 10 min | 22.48 |
| SC-150.12 | 10 min | 29.36 | 10 min | 32.33 | 10 min | 35.54 |
| SC-150.13 | 15 min | 33.27 | 15 min | 36.66 | 15 min | 40.32 |
| SC-150.14 | 15 min | 49.84 | 15 min | 55.18 | 15 min | 60.92 |
| SC-150.15 | 15 min | 50.19 | 15 min | 55.55 | 15 min | 61.31 |
| SC-150.16 | 15 min | 52.64 | 15 min | 58.27 | 15 min | 64.31 |
| SC-150.17 | 15 min | 53.46 | 15 min | 59.10 | 15 min | 65.19 |
| SC-151.01 | 10 min | 0.91 | 10 min | 1.00 | 10 min | 1.10 |
| SC-151.02 | 10 min | 1.38 | 10 min | 1.53 | 10 min | 1.67 |
| SC-152.01 | 10 min | 0.80 | 10 min | 0.88 | 10 min | 0.97 |
| SC-153.01 | 10 min | 0.65 | 10 min | 0.71 | 10 min | 0.77 |
| SC-153.02 | 10 min | 1.52 | 10 min | 1.66 | 10 min | 1.83 |
| SC-154.01 | 10 min | 1.19 | 10 min | 1.32 | 10 min | 1.45 |
| SC-154.02 | 10 min | 3.98 | 10 min | 4.37 | 10 min | 4.79 |
| SC-155.01 | 10 min | 0.43 | 10 min | 0.48 | 10 min | 0.53 |
| SC-155.02 | 10 min | 1.25 | 10 min | 1.38 | 10 min | 1.51 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-156.01 | 10 min | 0.49 | 10 min | 0.54 | 10 min | 0.59 |
| SC-157.01 | 10 min | 0.57 | 10 min | 0.63 | 10 min | 0.68 |
| SC-158.01 | 10 min | 0.77 | 10 min | 0.85 | 10 min | 0.93 |
| SC-158.02 | 10 min | 0.98 | 10 min | 1.08 | 10 min | 1.19 |
| SC-158.03 | 10 min | 2.13 | 10 min | 2.35 | 10 min | 2.58 |
| SC-158.04 | 10 min | 3.96 | 10 min | 4.35 | 10 min | 4.78 |
| SC-159.01 | 10 min | 0.61 | 10 min | 0.67 | 10 min | 0.73 |
| SC-16.01 | 10 min | 0.73 | 10 min | 0.81 | 10 min | 0.88 |
| SC-160.01 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.71 |
| SC-160.02 | 10 min | 1.32 | 10 min | 1.45 | 10 min | 1.59 |
| SC-161.01 | 10 min | 0.72 | 10 min | 0.79 | 10 min | 0.87 |
| SC-161.02 | 10 min | 1.36 | 10 min | 1.50 | 10 min | 1.64 |
| SC-162.01 | 10 min | 0.84 | 10 min | 0.93 | 10 min | 1.02 |
| SC-163.01 | 10 min | 0.47 | 10 min | 0.53 | 10 min | 0.59 |
| SC-163.02 | 10 min | 0.90 | 10 min | 1.00 | 10 min | 1.11 |
| SC-163.03 | 10 min | 1.48 | 10 min | 1.63 | 10 min | 1.79 |
| SC-163.04 | 10 min | 2.11 | 10 min | 2.32 | 10 min | 2.54 |
| SC-163.05 | 10 min | 3.65 | 10 min | 4.01 | 10 min | 4.39 |
| SC-164.01 | 10 min | 0.72 | 10 min | 0.80 | 10 min | 0.88 |
| SC-165.01 | 10 min | 0.62 | 10 min | 0.68 | 10 min | 0.75 |
| SC-165.02 | 10 min | 1.60 | 10 min | 1.77 | 10 min | 1.94 |
| SC-165.03 | 10 min | 2.09 | 10 min | 2.30 | 10 min | 2.53 |
| SC-165.04 | 10 min | 4.46 | 10 min | 4.91 | 10 min | 5.41 |
| SC-165.05 | 10 min | 7.50 | 10 min | 8.26 | 10 min | 9.08 |
| SC-166.01 | 10 min | 0.56 | 10 min | 0.62 | 10 min | 0.68 |
| SC-167.01 | 10 min | 0.85 | 10 min | 0.93 | 10 min | 1.02 |
| SC-167.02 | 10 min | 2.15 | 10 min | 2.35 | 10 min | 2.58 |
| SC-168.01 | 10 min | 0.70 | 10 min | 0.77 | 10 min | 0.84 |
| SC-169.01 | 10 min | 0.63 | 10 min | 0.68 | 10 min | 0.75 |
| SC-169.02 | 10 min | 1.16 | 10 min | 1.28 | 10 min | 1.41 |
| SC-169.03 | 10 min | 2.62 | 10 min | 2.87 | 10 min | 3.15 |
| SC-17.01 | 10 min | 0.64 | 10 min | 0.71 | 10 min | 0.77 |
| SC-17.02 | 10 min | 1.10 | 10 min | 1.21 | 10 min | 1.33 |
| SC-17.03 | 10 min | 1.84 | 10 min | 2.03 | 10 min | 2.23 |
| SC-17.04 | 10 min | 4.38 | 10 min | 4.82 | 10 min | 5.31 |
| SC-17.05 | 10 min | 6.01 | 10 min | 6.62 | 10 min | 7.29 |
| SC-17.06 | 10 min | 6.75 | 10 min | 7.44 | 10 min | 8.20 |
| SC-17.07 | 10 min | 7.26 | 10 min | 8.01 | 10 min | 8.82 |
| SC-170.01 | 10 min | 0.57 | 10 min | 0.63 | 10 min | 0.70 |
| SC-171.01 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.50 |
| SC-172.01 | 10 min | 0.82 | 10 min | 0.90 | 10 min | 0.99 |
| SC-172.02 | 10 min | 1.38 | 10 min | 1.51 | 10 min | 1.66 |
| SC-173.01 | 20 min | 0.89 | 20 min | 1.00 | 20 min | 1.13 |
| SC-173.02 | 20 min | 1.79 | 20 min | 2.01 | 20 min | 2.24 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-173.03 | 20 min | 1.85 | 20 min | 2.06 | 20 min | 2.29 |
| SC-173.04 | 10 min | 3.07 | 10 min | 3.38 | 20 min | 3.71 |
| SC-173.05 | 10 min | 3.58 | 10 min | 3.94 | 10 min | 4.33 |
| SC-174.01 | 10 min | 0.53 | 10 min | 0.58 | 10 min | 0.63 |
| SC-175.01 | 10 min | 0.92 | 10 min | 1.00 | 10 min | 1.10 |
| SC-175.02 | 10 min | 1.86 | 10 min | 2.05 | 10 min | 2.25 |
| SC-175.03 | 10 min | 2.99 | 10 min | 3.29 | 10 min | 3.61 |
| SC-175.04 | 10 min | 3.67 | 10 min | 4.04 | 10 min | 4.44 |
| SC-175.05 | 10 min | 4.12 | 10 min | 4.54 | 10 min | 4.99 |
| SC-176.01 | 10 min | 0.38 | 10 min | 0.42 | 10 min | 0.46 |
| SC-177.01 | 10 min | 0.51 | 10 min | 0.56 | 10 min | 0.61 |
| SC-177.02 | 10 min | 1.34 | 10 min | 1.48 | 10 min | 1.63 |
| SC-177.03 | 10 min | 3.68 | 10 min | 4.05 | 10 min | 4.44 |
| SC-177.04 | 10 min | 5.02 | 10 min | 5.55 | 10 min | 6.11 |
| SC-178.01 | 10 min | 1.12 | 10 min | 1.23 | 10 min | 1.35 |
| SC-178.02 | 10 min | 1.66 | 10 min | 1.83 | 10 min | 2.02 |
| SC-179.01 | 10 min | 0.91 | 10 min | 1.00 | 10 min | 1.10 |
| SC-18.01 | 10 min | 0.71 | 10 min | 0.77 | 10 min | 0.85 |
| SC-18.02 | 10 min | 1.11 | 10 min | 1.21 | 10 min | 1.34 |
| SC-180.01 | 10 min | 0.88 | 10 min | 0.97 | 10 min | 1.07 |
| SC-180.02 | 10 min | 1.49 | 10 min | 1.64 | 10 min | 1.81 |
| SC-180.03 | 10 min | 2.09 | 10 min | 2.31 | 10 min | 2.54 |
| SC-180.04 | 10 min | 3.02 | 10 min | 3.32 | 10 min | 3.65 |
| SC-181.01 | 20 min | 0.38 | 20 min | 0.42 | 20 min | 0.46 |
| SC-181.02 | 10 min | 1.25 | 10 min | 1.38 | 10 min | 1.51 |
| SC-181.03 | 10 min | 2.04 | 10 min | 2.26 | 10 min | 2.49 |
| SC-181.04 | 10 min | 3.79 | 10 min | 4.20 | 10 min | 4.62 |
| SC-181.05 | 10 min | 4.08 | 10 min | 4.50 | 10 min | 4.96 |
| SC-181.06 | 10 min | 4.55 | 10 min | 5.02 | 10 min | 5.52 |
| SC-181.07 | 10 min | 10.03 | 10 min | 11.05 | 10 min | 12.16 |
| SC-181.08 | 10 min | 10.40 | 10 min | 11.47 | 10 min | 12.62 |
| SC-182.01 | 10 min | 0.62 | 10 min | 0.68 | 10 min | 0.75 |
| SC-182.02 | 10 min | 1.00 | 10 min | 1.11 | 10 min | 1.21 |
| SC-182.03 | 10 min | 1.56 | 10 min | 1.72 | 10 min | 1.89 |
| SC-183.01 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.71 |
| SC-183.02 | 10 min | 1.34 | 10 min | 1.48 | 10 min | 1.63 |
| SC-183.03 | 10 min | 3.32 | 10 min | 3.66 | 10 min | 4.04 |
| SC-183.04 | 10 min | 3.79 | 10 min | 4.18 | 10 min | 4.59 |
| SC-184.01 | 10 min | 1.43 | 10 min | 1.58 | 10 min | 1.74 |
| SC-185.01 | 10 min | 0.86 | 10 min | 0.94 | 10 min | 1.03 |
| SC-185.02 | 10 min | 1.89 | 10 min | 2.08 | 10 min | 2.29 |
| SC-186.01 | 10 min | 0.30 | 10 min | 0.33 | 10 min | 0.36 |
| SC-187.01 | 10 min | 0.87 | 10 min | 0.95 | 10 min | 1.04 |
| SC-187.02 | 10 min | 1.67 | 10 min | 1.84 | 10 min | 2.02 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-187.03 | 10 min | 1.97 | 10 min | 2.16 | 10 min | 2.37 |
| SC-187.04 | 10 min | 2.46 | 10 min | 2.70 | 10 min | 2.97 |
| SC-187.05 | 10 min | 2.93 | 10 min | 3.22 | 10 min | 3.53 |
| SC-188.01 | 10 min | 0.91 | 10 min | 1.00 | 10 min | 1.09 |
| SC-188.02 | 10 min | 1.33 | 10 min | 1.46 | 10 min | 1.61 |
| SC-189.01 | 10 min | 1.03 | 10 min | 1.13 | 10 min | 1.24 |
| SC-189.02 | 10 min | 1.83 | 10 min | 2.00 | 10 min | 2.19 |
| SC-19.01 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.50 |
| SC-190.01 | 10 min | 0.45 | 10 min | 0.49 | 10 min | 0.54 |
| SC-191.01 | 10 min | 0.83 | 10 min | 0.91 | 10 min | 0.99 |
| SC-191.02 | 10 min | 1.19 | 10 min | 1.30 | 10 min | 1.42 |
| SC-191.03 | 10 min | 2.18 | 10 min | 2.41 | 10 min | 2.65 |
| SC-191.04 | 10 min | 3.18 | 10 min | 3.52 | 10 min | 3.88 |
| SC-191.05 | 10 min | 4.45 | 10 min | 4.90 | 10 min | 5.38 |
| SC-191.06 | 10 min | 7.65 | 10 min | 8.40 | 10 min | 9.20 |
| SC-191.07 | 10 min | 9.11 | 10 min | 10.02 | 10 min | 11.00 |
| SC-191.08 | 10 min | 9.97 | 10 min | 10.99 | 10 min | 12.10 |
| SC-192.01 | 10 min | 2.59 | 10 min | 2.86 | 10 min | 3.16 |
| SC-193.01 | 10 min | 1.18 | 10 min | 1.30 | 10 min | 1.43 |
| SC-194.01 | 10 min | 1.18 | 10 min | 1.29 | 10 min | 1.43 |
| SC-194.02 | 20 min | 4.77 | 20 min | 5.39 | 20 min | 6.04 |
| SC-194.03 | 20 min | 4.95 | 20 min | 5.60 | 20 min | 6.28 |
| SC-195.01 | 20 min | 1.67 | 20 min | 1.88 | 20 min | 2.11 |
| SC-196.01 | 10 min | 3.86 | 10 min | 4.28 | 10 min | 4.74 |
| SC-197.01 | 10 min | 2.47 | 10 min | 2.75 | 10 min | 3.07 |
| SC-198.01 | 20 min | 2.40 | 20 min | 2.64 | 15 min | 2.96 |
| SC-2.01 | 10 min | 0.53 | 10 min | 0.59 | 10 min | 0.66 |
| SC-20.01 | 10 min | 0.56 | 10 min | 0.61 | 10 min | 0.67 |
| SC-200.01 | 10 min | 0.80 | 10 min | 0.88 | 10 min | 0.97 |
| SC-200.02 | 10 min | 1.41 | 10 min | 1.55 | 10 min | 1.70 |
| SC-200.03 | 10 min | 2.63 | 10 min | 2.90 | 10 min | 3.20 |
| SC-200.04 | 10 min | 3.84 | 10 min | 4.24 | 10 min | 4.68 |
| SC-200.05 | 10 min | 6.29 | 10 min | 6.95 | 10 min | 7.65 |
| SC-200.06 | 10 min | 9.51 | 10 min | 10.60 | 10 min | 11.77 |
| SC-200.07 | 10 min | 11.17 | 10 min | 12.46 | 10 min | 13.84 |
| SC-200.08 | 10 min | 12.58 | 10 min | 14.07 | 10 min | 15.66 |
| SC-200.09 | 15 min | 18.58 | 10 min | 20.86 | 10 min | 23.31 |
| SC-201.01 | 10 min | 1.02 | 10 min | 1.13 | 10 min | 1.24 |
| SC-202.01 | 10 min | 1.05 | 10 min | 1.16 | 10 min | 1.27 |
| SC-203.01 | 10 min | 1.04 | 10 min | 1.14 | 10 min | 1.26 |
| SC-204.01 | 10 min | 1.36 | 10 min | 1.51 | 10 min | 1.67 |
| SC-205.01 | 20 min | 0.55 | 20 min | 0.61 | 20 min | 0.67 |
| SC-206.01 | 10 min | 4.38 | 10 min | 4.94 | 10 min | 5.53 |
| SC-207.01 | 10 min | 0.98 | 10 min | 1.08 | 10 min | 1.19 |

## Climate Change Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-207.02 | 10 min | 1.89 | 10 min | 2.09 | 10 min | 2.30 |
| SC-207.03 | 10 min | 2.11 | 10 min | 2.33 | 10 min | 2.58 |
| SC-207.04 | 10 min | 5.77 | 10 min | 6.35 | 10 min | 6.97 |
| SC-207.05 | 10 min | 7.61 | 10 min | 8.37 | 10 min | 9.21 |
| SC-207.06 | 10 min | 8.34 | 10 min | 9.19 | 10 min | 10.11 |
| SC-207.07 | 10 min | 13.97 | 10 min | 15.48 | 10 min | 17.11 |
| SC-207.08 | 10 min | 20.74 | 10 min | 22.95 | 10 min | 25.34 |
| SC-207.09 | 10 min | 23.77 | 10 min | 26.34 | 10 min | 29.09 |
| SC-207.10 | 15 min | 24.60 | 15 min | 27.21 | 15 min | 30.04 |
| SC-207.11 | 15 min | 26.60 | 15 min | 29.45 | 15 min | 32.49 |
| SC-207.12 | 15 min | 38.54 | 15 min | 42.61 | 15 min | 46.97 |
| SC-207.13 | 15 min | 40.73 | 15 min | 45.04 | 15 min | 49.66 |
| SC-207.14 | 15 min | 41.81 | 15 min | 46.25 | 15 min | 51.00 |
| SC-208.01 | 10 min | 1.08 | 10 min | 1.18 | 10 min | 1.29 |
| SC-208.02 | 10 min | 1.51 | 10 min | 1.65 | 10 min | 1.81 |
| SC-208.03 | 10 min | 2.00 | 10 min | 2.20 | 10 min | 2.41 |
| SC-208.04 | 10 min | 3.12 | 10 min | 3.43 | 10 min | 3.75 |
| SC-208.05 | 10 min | 3.57 | 10 min | 3.92 | 10 min | 4.31 |
| SC-209.01 | 10 min | 0.66 | 10 min | 0.73 | 10 min | 0.79 |
| SC-21.01 | 10 min | 0.80 | 10 min | 0.88 | 10 min | 0.96 |
| SC-210.01 | 10 min | 1.49 | 10 min | 1.64 | 10 min | 1.80 |
| SC-210.02 | 10 min | 2.04 | 10 min | 2.25 | 10 min | 2.47 |
| SC-211.01 | 20 min | 0.56 | 20 min | 0.63 | 20 min | 0.71 |
| SC-211.02 | 25 min | 1.25 | 25 min | 1.41 | 20 min | 1.55 |
| SC-211.03 | 20 min | 1.92 | 20 min | 2.17 | 20 min | 2.45 |
| SC-211.04 | 20 min | 2.29 | 20 min | 2.58 | 20 min | 2.90 |
| SC-212.01 | 1 hour | 0.21 | 1 hour | 0.24 | 45 min | 0.26 |
| SC-212.02 | 20 min | 0.43 | 20 min | 0.48 | 20 min | 0.53 |
| SC-213.01 | 10 min | 0.62 | 10 min | 0.67 | 10 min | 0.74 |
| SC-213.02 | 10 min | 1.02 | 10 min | 1.12 | 10 min | 1.23 |
| SC-214.01 | 10 min | 0.76 | 10 min | 0.83 | 10 min | 0.91 |
| SC-214.02 | 10 min | 1.64 | 10 min | 1.80 | 10 min | 1.96 |
| SC-215.01 | 10 min | 0.60 | 10 min | 0.67 | 10 min | 0.73 |
| SC-215.02 | 10 min | 1.08 | 10 min | 1.19 | 10 min | 1.31 |
| SC-216.01 | 10 min | 0.58 | 10 min | 0.63 | 10 min | 0.69 |
| SC-216.02 | 10 min | 1.73 | 10 min | 1.89 | 10 min | 2.07 |
| SC-216.03 | 10 min | 2.69 | 10 min | 2.95 | 10 min | 3.25 |
| SC-216.04 | 10 min | 3.73 | 10 min | 4.12 | 10 min | 4.53 |
| SC-217.01 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.49 |
| SC-218.01 | 10 min | 0.31 | 10 min | 0.34 | 10 min | 0.37 |
| SC-219.01 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.49 |
| SC-22.01 | 10 min | 0.45 | 10 min | 0.49 | 10 min | 0.53 |
| SC-220.01 | 10 min | 0.63 | 10 min | 0.69 | 10 min | 0.75 |
| SC-221.01 | 10 min | 0.58 | 10 min | 0.63 | 10 min | 0.69 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-221.02 | 10 min | 1.23 | 10 min | 1.35 | 10 min | 1.49 |
| SC-221.03 | 10 min | 1.51 | 10 min | 1.67 | 10 min | 1.84 |
| SC-221.04 | 10 min | 2.21 | 10 min | 2.43 | 10 min | 2.68 |
| SC-221.05 | 10 min | 2.86 | 10 min | 3.14 | 10 min | 3.43 |
| SC-221.06 | 10 min | 2.99 | 10 min | 3.30 | 10 min | 3.63 |
| SC-222.01 | 10 min | 0.63 | 10 min | 0.69 | 10 min | 0.76 |
| SC-222.02 | 10 min | 0.98 | 10 min | 1.08 | 10 min | 1.19 |
| SC-222.03 | 10 min | 2.17 | 10 min | 2.40 | 10 min | 2.65 |
| SC-223.01 | 10 min | 0.27 | 10 min | 0.29 | 10 min | 0.32 |
| SC-224.01 | 15 min | 0.71 | 15 min | 0.79 | 15 min | 0.88 |
| SC-225.01 | 10 min | 0.50 | 10 min | 0.55 | 10 min | 0.60 |
| SC-226.01 | 10 min | 0.37 | 10 min | 0.41 | 10 min | 0.44 |
| SC-226.02 | 10 min | 0.85 | 10 min | 0.94 | 10 min | 1.03 |
| SC-226.03 | 10 min | 1.75 | 10 min | 1.92 | 10 min | 2.11 |
| SC-226.04 | 10 min | 2.63 | 10 min | 2.91 | 10 min | 3.20 |
| SC-226.05 | 10 min | 10.48 | 10 min | 11.57 | 10 min | 12.75 |
| SC-226.06 | 10 min | 11.44 | 10 min | 12.60 | 10 min | 13.84 |
| SC-226.07 | 10 min | 12.46 | 10 min | 13.75 | 10 min | 15.14 |
| SC-226.08 | 10 min | 13.12 | 10 min | 14.47 | 10 min | 15.93 |
| SC-227.01 | 10 min | 0.19 | 10 min | 0.21 | 10 min | 0.23 |
| SC-228.01 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.49 |
| SC-229.01 | 10 min | 0.29 | 10 min | 0.32 | 10 min | 0.35 |
| SC-23.01 | 10 min | 0.59 | 10 min | 0.64 | 10 min | 0.70 |
| SC-23.02 | 10 min | 1.71 | 10 min | 1.88 | 10 min | 2.07 |
| SC-23.03 | 10 min | 2.09 | 10 min | 2.30 | 10 min | 2.53 |
| SC-230.01 | 10 min | 0.28 | 10 min | 0.31 | 10 min | 0.34 |
| SC-231.01 | 10 min | 0.31 | 10 min | 0.35 | 10 min | 0.38 |
| SC-232.01 | 10 min | 0.77 | 10 min | 0.85 | 10 min | 0.93 |
| SC-232.02 | 10 min | 1.22 | 10 min | 1.34 | 10 min | 1.47 |
| SC-232.03 | 10 min | 2.85 | 10 min | 3.14 | 10 min | 3.45 |
| SC-233.01 | 10 min | 0.56 | 10 min | 0.61 | 10 min | 0.67 |
| SC-233.02 | 10 min | 0.90 | 10 min | 1.00 | 10 min | 1.10 |
| SC-234.01 | 10 min | 0.80 | 10 min | 0.88 | 10 min | 0.97 |
| SC-234.02 | 10 min | 1.53 | 10 min | 1.69 | 10 min | 1.85 |
| SC-234.03 | 10 min | 4.50 | 10 min | 4.95 | 10 min | 5.43 |
| SC-235.01 | 10 min | 0.30 | 10 min | 0.33 | 10 min | 0.36 |
| SC-236.01 | 10 min | 0.38 | 10 min | 0.42 | 10 min | 0.46 |
| SC-236.02 | 10 min | 0.58 | 10 min | 0.64 | 10 min | 0.70 |
| SC-237.01 | 10 min | 0.51 | 10 min | 0.56 | 10 min | 0.61 |
| SC-237.02 | 10 min | 1.04 | 10 min | 1.16 | 10 min | 1.29 |
| SC-238.01 | 10 min | 0.33 | 10 min | 0.36 | 10 min | 0.40 |
| SC-238.02 | 10 min | 0.75 | 10 min | 0.82 | 10 min | 0.90 |
| SC-239.01 | 10 min | 0.42 | 10 min | 0.46 | 10 min | 0.51 |
| SC-24.01 | 10 min | 0.51 | 10 min | 0.56 | 10 min | 0.61 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-240.01 | 20 min | 1.10 | 20 min | 1.23 | 20 min | 1.37 |
| SC-240.02 | 20 min | 1.56 | 20 min | 1.75 | 20 min | 1.95 |
| SC-241.01 | 15 min | 4.53 | 10 min | 5.44 | 10 min | 6.17 |
| SC-242.01 | 10 min | 0.59 | 10 min | 0.64 | 10 min | 0.70 |
| SC-242.02 | 10 min | 1.50 | 10 min | 1.64 | 10 min | 1.81 |
| SC-242.03 | 10 min | 2.22 | 10 min | 2.45 | 10 min | 2.69 |
| SC-242.04 | 10 min | 2.36 | 10 min | 2.60 | 10 min | 2.85 |
| SC-242.05 | 10 min | 5.23 | 10 min | 5.76 | 10 min | 6.33 |
| SC-242.06 | 10 min | 6.67 | 10 min | 7.34 | 10 min | 8.06 |
| SC-242.07 | 10 min | 7.14 | 10 min | 7.90 | 10 min | 8.71 |
| SC-242.08 | 10 min | 14.04 | 10 min | 15.73 | 10 min | 17.53 |
| SC-243.01 | 10 min | 0.56 | 10 min | 0.62 | 10 min | 0.68 |
| SC-243.02 | 10 min | 2.04 | 10 min | 2.23 | 10 min | 2.44 |
| SC-244.01 | 10 min | 0.79 | 10 min | 0.87 | 10 min | 0.95 |
| SC-245.01 | 10 min | 0.42 | 10 min | 0.46 | 10 min | 0.50 |
| SC-246.01 | 10 min | 0.28 | 10 min | 0.31 | 10 min | 0.34 |
| SC-246.02 | 10 min | 0.72 | 10 min | 0.80 | 10 min | 0.87 |
| SC-247.01 | 10 min | 0.75 | 10 min | 0.82 | 10 min | 0.90 |
| SC-247.02 | 10 min | 1.89 | 10 min | 2.11 | 10 min | 2.35 |
| SC-248.01 | 10 min | 0.94 | 10 min | 1.06 | 10 min | 1.18 |
| SC-249.01 | 20 min | 0.22 | 20 min | 0.24 | 20 min | 0.27 |
| SC-249.02 | 20 min | 0.63 | 20 min | 0.70 | 20 min | 0.77 |
| SC-249.03 | 10 min | 1.29 | 10 min | 1.44 | 10 min | 1.59 |
| SC-249.04 | 10 min | 3.25 | 10 min | 3.57 | 10 min | 3.91 |
| SC-249.05 | 10 min | 9.49 | 10 min | 10.46 | 10 min | 11.51 |
| SC-249.06 | 10 min | 16.08 | 10 min | 18.06 | 10 min | 20.19 |
| SC-25.01 | 10 min | 1.56 | 10 min | 1.71 | 10 min | 1.88 |
| SC-25.02 | 10 min | 2.19 | 10 min | 2.39 | 10 min | 2.63 |
| SC-25.03 | 10 min | 2.38 | 10 min | 2.63 | 10 min | 2.89 |
| SC-25.04 | 10 min | 4.00 | 10 min | 4.42 | 10 min | 4.88 |
| SC-250.01 | 10 min | 0.18 | 10 min | 0.19 | 10 min | 0.21 |
| SC-251.01 | 10 min | 0.43 | 10 min | 0.47 | 10 min | 0.52 |
| SC-252.01 | 10 min | 0.49 | 10 min | 0.54 | 10 min | 0.60 |
| SC-252.02 | 10 min | 0.92 | 10 min | 1.02 | 10 min | 1.13 |
| SC-253.01 | 10 min | 0.74 | 10 min | 0.81 | 10 min | 0.89 |
| SC-253.02 | 10 min | 2.64 | 10 min | 2.90 | 10 min | 3.17 |
| SC-253.03 | 10 min | 3.23 | 10 min | 3.54 | 10 min | 3.88 |
| SC-254.01 | 10 min | 0.74 | 10 min | 0.82 | 10 min | 0.90 |
| SC-255.01 | 10 min | 0.69 | 10 min | 0.77 | 10 min | 0.85 |
| SC-256.01 | 10 min | 0.61 | 10 min | 0.67 | 10 min | 0.74 |
| SC-257.01 | 10 min | 0.35 | 10 min | 0.38 | 10 min | 0.41 |
| SC-258.01 | 10 min | 1.58 | 10 min | 1.74 | 10 min | 1.90 |
| SC-258.02 | 10 min | 2.63 | 10 min | 2.93 | 10 min | 3.24 |
| SC-259.01 | 10 min | 0.68 | 10 min | 0.75 | 10 min | 0.82 |

## Climate Change Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-259.02 | 10 min | 1.40 | 10 min | 1.54 | 10 min | 1.69 |
| SC-259.03 | 10 min | 1.99 | 10 min | 2.19 | 10 min | 2.40 |
| SC-259.04 | 10 min | 3.62 | 10 min | 3.97 | 10 min | 4.34 |
| SC-259.05 | 10 min | 4.41 | 10 min | 4.86 | 10 min | 5.34 |
| SC-259.06 | 10 min | 5.69 | 10 min | 6.26 | 10 min | 6.87 |
| SC-259.07 | 10 min | 7.17 | 10 min | 7.87 | 10 min | 8.63 |
| SC-259.08 | 10 min | 8.57 | 10 min | 9.42 | 10 min | 10.34 |
| SC-259.09 | 10 min | 22.34 | 10 min | 24.80 | 10 min | 27.44 |
| SC-259.10 | 10 min | 22.72 | 10 min | 25.21 | 10 min | 27.88 |
| SC-26.01 | 10 min | 0.48 | 10 min | 0.52 | 10 min | 0.57 |
| SC-260.01 | 10 min | 0.45 | 10 min | 0.50 | 10 min | 0.55 |
| SC-261.01 | 10 min | 0.58 | 10 min | 0.63 | 10 min | 0.69 |
| SC-262.01 | 10 min | 0.66 | 10 min | 0.73 | 10 min | 0.80 |
| SC-262.02 | 10 min | 1.19 | 10 min | 1.31 | 10 min | 1.43 |
| SC-263.01 | 10 min | 0.70 | 10 min | 0.77 | 10 min | 0.84 |
| SC-264.01 | 10 min | 0.39 | 10 min | 0.42 | 10 min | 0.46 |
| SC-265.01 | 10 min | 0.50 | 10 min | 0.55 | 10 min | 0.61 |
| SC-265.02 | 20 min | 1.20 | 15 min | 1.32 | 15 min | 1.48 |
| SC-265.03 | 15 min | 2.08 | 15 min | 2.33 | 15 min | 2.62 |
| SC-265.04 | 10 min | 10.21 | 10 min | 11.39 | 10 min | 12.66 |
| SC-266.01 | 10 min | 0.64 | 10 min | 0.71 | 10 min | 0.78 |
| SC-266.02 | 10 min | 1.22 | 10 min | 1.33 | 10 min | 1.46 |
| SC-266.03 | 10 min | 1.47 | 10 min | 1.62 | 10 min | 1.79 |
| SC-266.04 | 10 min | 5.60 | 10 min | 6.18 | 10 min | 6.81 |
| SC-266.05 | 10 min | 6.48 | 10 min | 7.18 | 10 min | 7.94 |
| SC-267.01 | 10 min | 0.62 | 10 min | 0.68 | 10 min | 0.74 |
| SC-268.01 | 10 min | 1.04 | 10 min | 1.14 | 10 min | 1.26 |
| SC-268.02 | 10 min | 2.70 | 10 min | 2.95 | 10 min | 3.23 |
| SC-269.01 | 20 min | 0.43 | 20 min | 0.47 | 15 min | 0.51 |
| SC-27.01 | 10 min | 0.49 | 10 min | 0.54 | 10 min | 0.59 |
| SC-270.01 | 20 min | 0.47 | 15 min | 0.51 | 10 min | 0.64 |
| SC-271.01 | 15 min | 0.29 | 10 min | 0.35 | 10 min | 0.40 |
| SC-272.01 | 20 min | 0.71 | 20 min | 0.78 | 20 min | 0.86 |
| SC-272.02 | 20 min | 1.45 | 10 min | 1.74 | 10 min | 1.94 |
| SC-272.03 | 10 min | 2.58 | 10 min | 2.87 | 10 min | 3.19 |
| SC-273.01 | 10 min | 0.73 | 10 min | 0.81 | 10 min | 0.89 |
| SC-274.01 | 20 min | 0.36 | 20 min | 0.41 | 20 min | 0.46 |
| SC-274.02 | 10 min | 1.44 | 10 min | 1.59 | 10 min | 1.74 |
| SC-274.03 | 10 min | 3.48 | 10 min | 3.85 | 10 min | 4.26 |
| SC-274.04 | 10 min | 4.49 | 10 min | 4.94 | 10 min | 5.44 |
| SC-274.05 | 10 min | 5.81 | 10 min | 6.46 | 10 min | 7.17 |
| SC-275.01 | 10 min | 0.68 | 10 min | 0.75 | 10 min | 0.82 |
| SC-276.01 | 10 min | 0.50 | 10 min | 0.54 | 10 min | 0.59 |
| SC-277.01 | 10 min | 0.62 | 10 min | 0.68 | 10 min | 0.75 |

## Climate Change Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-278.01 | 10 min | 0.38 | 10 min | 0.42 | 10 min | 0.46 |
| SC-278.02 | 10 min | 5.04 | 10 min | 5.65 | 10 min | 6.27 |
| SC-279.01 | 10 min | 0.66 | 10 min | 0.74 | 10 min | 0.82 |
| SC-279.02 | 10 min | 4.81 | 10 min | 5.33 | 10 min | 5.88 |
| SC-28.01 | 20 min | 0.41 | 15 min | 0.46 | 15 min | 0.51 |
| SC-28.02 | 20 min | 0.92 | 20 min | 1.01 | 20 min | 1.11 |
| SC-28.03 | 20 min | 1.29 | 20 min | 1.42 | 15 min | 1.57 |
| SC-28.04 | 10 min | 2.82 | 10 min | 3.11 | 10 min | 3.43 |
| SC-280.01 | 10 min | 0.62 | 10 min | 0.68 | 10 min | 0.74 |
| SC-29.01 | 10 min | 0.48 | 10 min | 0.52 | 10 min | 0.57 |
| SC-29.02 | 10 min | 1.29 | 10 min | 1.43 | 10 min | 1.57 |
| SC-3.01 | 10 min | 0.55 | 10 min | 0.62 | 10 min | 0.69 |
| SC-3.02 | 15 min | 1.73 | 15 min | 1.92 | 15 min | 2.13 |
| SC-30.01 | 10 min | 0.85 | 10 min | 0.93 | 10 min | 1.02 |
| SC-30.02 | 10 min | 1.52 | 10 min | 1.67 | 10 min | 1.82 |
| SC-30.03 | 10 min | 2.10 | 10 min | 2.32 | 10 min | 2.55 |
| SC-30.04 | 10 min | 2.66 | 10 min | 2.94 | 10 min | 3.24 |
| SC-31.01 | 10 min | 0.56 | 10 min | 0.61 | 10 min | 0.66 |
| SC-31.02 | 10 min | 1.15 | 10 min | 1.27 | 10 min | 1.41 |
| SC-32.01 | 15 min | 0.48 | 10 min | 0.60 | 10 min | 0.67 |
| SC-32.02 | 15 min | 0.71 | 15 min | 0.80 | 15 min | 0.89 |
| SC-33.01 | 10 min | 0.71 | 10 min | 0.78 | 10 min | 0.85 |
| SC-33.02 | 10 min | 1.61 | 10 min | 1.77 | 10 min | 1.95 |
| SC-34.01 | 10 min | 0.55 | 10 min | 0.60 | 10 min | 0.66 |
| SC-34.02 | 10 min | 1.11 | 10 min | 1.21 | 10 min | 1.32 |
| SC-34.03 | 10 min | 1.32 | 10 min | 1.45 | 10 min | 1.61 |
| SC-35.01 | 10 min | 0.52 | 10 min | 0.57 | 10 min | 0.62 |
| SC-35.02 | 10 min | 1.39 | 10 min | 1.52 | 10 min | 1.67 |
| SC-35.03 | 10 min | 2.22 | 10 min | 2.43 | 10 min | 2.65 |
| SC-35.04 | 10 min | 2.37 | 10 min | 2.59 | 10 min | 2.83 |
| SC-36.01 | 10 min | 1.08 | 10 min | 1.19 | 10 min | 1.30 |
| SC-36.02 | 10 min | 1.95 | 10 min | 2.14 | 10 min | 2.34 |
| SC-37.01 | 10 min | 0.42 | 10 min | 0.46 | 10 min | 0.50 |
| SC-37.02 | 10 min | 1.15 | 10 min | 1.27 | 10 min | 1.40 |
| SC-38.01 | 10 min | 0.48 | 10 min | 0.53 | 10 min | 0.58 |
| SC-39.01 | 10 min | 0.28 | 10 min | 0.31 | 10 min | 0.34 |
| SC-4.01 | 20 min | 0.61 | 20 min | 0.67 | 15 min | 0.73 |
| SC-40.01 | 10 min | 0.66 | 10 min | 0.73 | 10 min | 0.80 |
| SC-41.01 | 10 min | 0.44 | 10 min | 0.48 | 10 min | 0.52 |
| SC-42.01 | 10 min | 1.48 | 10 min | 1.63 | 10 min | 1.79 |
| SC-43.01 | 10 min | 0.32 | 10 min | 0.36 | 10 min | 0.39 |
| SC-44.01 | 10 min | 1.01 | 10 min | 1.11 | 10 min | 1.22 |
| SC-44.02 | 10 min | 1.58 | 10 min | 1.75 | 10 min | 1.92 |
| SC-44.03 | 10 min | 2.17 | 10 min | 2.40 | 10 min | 2.64 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-44.04 | 10 min | 3.35 | 10 min | 3.70 | 10 min | 4.06 |
| SC-44.05 | 10 min | 5.80 | 10 min | 6.41 | 10 min | 7.07 |
| SC-44.06 | 10 min | 6.13 | 10 min | 6.75 | 10 min | 7.44 |
| SC-44.07 | 10 min | 6.82 | 10 min | 7.53 | 10 min | 8.32 |
| SC-44.08 | 10 min | 8.82 | 10 min | 9.70 | 10 min | 10.69 |
| SC-44.09 | 10 min | 9.12 | 10 min | 10.26 | 10 min | 11.30 |
| SC-44.10 | 12 hours | 2.42 | 6 hours | 2.86 | 6 hours | 4.21 |
| SC-44.11 | 45 min | 12.48 | 30 min | 13.63 | 30 min | 15.66 |
| SC-44.12 | 12 hours | 5.67 | 12 hours | 6.67 | 12 hours | 8.68 |
| SC-44.13 | 12 hours | 5.75 | 12 hours | 6.78 | 12 hours | 8.82 |
| SC-44.14 | 12 hours | 6.49 | 12 hours | 7.63 | 12 hours | 9.87 |
| SC-44.15 | 12 hours | 4.64 | 12 hours | 8.09 | 12 hours | 9.75 |
| SC-44.16 | 12 hours | 4.66 | 12 hours | 8.12 | 12 hours | 9.80 |
| SC-44.17 | 15 min | 8.32 | 12 hours | 9.10 | 12 hours | 10.91 |
| SC-44.18 | 15 min | 8.86 | 15 min | 9.68 | 12 hours | 11.05 |
| SC-44.19 | 15 min | 10.10 | 15 min | 11.05 | 12 hours | 11.29 |
| SC-44.20 | 25 min | 9.34 | 25 min | 9.97 | 12 hours | 11.03 |
| SC-45.01 | 10 min | 0.74 | 10 min | 0.82 | 10 min | 0.90 |
| SC-46.01 | 10 min | 0.61 | 10 min | 0.67 | 10 min | 0.73 |
| SC-46.02 | 10 min | 1.03 | 10 min | 1.13 | 10 min | 1.24 |
| SC-46.03 | 10 min | 1.55 | 10 min | 1.71 | 10 min | 1.88 |
| SC-46.04 | 10 min | 1.74 | 10 min | 1.93 | 10 min | 2.12 |
| SC-47.01 | 10 min | 0.99 | 10 min | 1.09 | 10 min | 1.19 |
| SC-48.01 | 10 min | 0.75 | 10 min | 0.82 | 10 min | 0.90 |
| SC-48.02 | 10 min | 1.17 | 10 min | 1.29 | 10 min | 1.42 |
| SC-49.01 | 10 min | 0.84 | 10 min | 0.92 | 10 min | 1.00 |
| SC-5.01 | 10 min | 0.53 | 10 min | 0.58 | 10 min | 0.63 |
| SC-50.01 | 10 min | 0.28 | 10 min | 0.31 | 10 min | 0.34 |
| SC-51.01 | 10 min | 0.29 | 10 min | 0.32 | 10 min | 0.35 |
| SC-52.01 | 10 min | 0.29 | 10 min | 0.32 | 10 min | 0.35 |
| SC-53.01 | 10 min | 0.72 | 10 min | 0.79 | 10 min | 0.87 |
| SC-53.02 | 10 min | 1.45 | 10 min | 1.60 | 10 min | 1.76 |
| SC-53.03 | 10 min | 1.76 | 10 min | 1.95 | 10 min | 2.15 |
| SC-54.01 | 10 min | 0.59 | 10 min | 0.64 | 10 min | 0.70 |
| SC-54.02 | 10 min | 1.10 | 10 min | 1.22 | 10 min | 1.34 |
| SC-55.01 | 10 min | 0.91 | 10 min | 1.00 | 10 min | 1.09 |
| SC-56.01 | 10 min | 0.42 | 10 min | 0.46 | 10 min | 0.50 |
| SC-57.01 | 10 min | 0.31 | 10 min | 0.34 | 10 min | 0.37 |
| SC-58.01 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.72 |
| SC-59.01 | 10 min | 0.79 | 10 min | 0.87 | 10 min | 0.96 |
| SC-59.02 | 10 min | 1.49 | 10 min | 1.64 | 10 min | 1.79 |
| SC-59.03 | 10 min | 2.18 | 10 min | 2.40 | 10 min | 2.63 |
| SC-59.04 | 10 min | 2.82 | 10 min | 3.11 | 10 min | 3.41 |
| SC-59.05 | 10 min | 5.96 | 10 min | 6.59 | 10 min | 7.28 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-59.06 | 10 min | 6.84 | 10 min | 7.57 | 10 min | 8.36 |
| SC-59.07 | 10 min | 11.45 | 10 min | 12.72 | 10 min | 14.09 |
| SC-59.08 | 15 min | 11.49 | 15 min | 12.83 | 15 min | 14.27 |
| SC-59.09 | 15 min | 14.04 | 15 min | 15.72 | 15 min | 17.50 |
| SC-59.10 | 25 min | 12.35 | 25 min | 14.24 | 25 min | 16.19 |
| SC-6.01 | 10 min | 0.69 | 10 min | 0.75 | 10 min | 0.82 |
| SC-60.01 | 10 min | 0.53 | 10 min | 0.60 | 10 min | 0.66 |
| SC-60.02 | 10 min | 2.10 | 10 min | 2.34 | 10 min | 2.60 |
| SC-61.01 | 10 min | 1.10 | 10 min | 1.22 | 10 min | 1.34 |
| SC-62.01 | 10 min | 0.70 | 10 min | 0.76 | 10 min | 0.84 |
| SC-63.01 | 10 min | 0.40 | 10 min | 0.45 | 10 min | 0.49 |
| SC-64.01 | 10 min | 0.53 | 10 min | 0.58 | 10 min | 0.64 |
| SC-64.02 | 10 min | 1.76 | 10 min | 1.93 | 10 min | 2.13 |
| SC-64.03 | 10 min | 3.31 | 10 min | 3.64 | 10 min | 4.00 |
| SC-64.04 | 10 min | 4.60 | 10 min | 5.09 | 10 min | 5.62 |
| SC-65.01 | 10 min | 0.41 | 10 min | 0.45 | 10 min | 0.49 |
| SC-66.01 | 10 min | 0.32 | 10 min | 0.35 | 10 min | 0.38 |
| SC-66.02 | 15 min | 0.72 | 10 min | 0.88 | 10 min | 0.99 |
| SC-67.01 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.71 |
| SC-68.01 | 10 min | 0.81 | 10 min | 0.89 | 10 min | 0.97 |
| SC-68.02 | 10 min | 1.52 | 10 min | 1.67 | 10 min | 1.84 |
| SC-68.03 | 10 min | 2.77 | 10 min | 3.04 | 10 min | 3.33 |
| SC-69.01 | 10 min | 0.70 | 10 min | 0.77 | 10 min | 0.84 |
| SC-7.01 | 10 min | 0.90 | 10 min | 1.00 | 10 min | 1.10 |
| SC-70.01 | 10 min | 0.64 | 10 min | 0.70 | 10 min | 0.76 |
| SC-70.02 | 10 min | 1.02 | 10 min | 1.12 | 10 min | 1.22 |
| SC-71.01 | 10 min | 0.81 | 10 min | 0.88 | 10 min | 0.97 |
| SC-71.02 | 10 min | 1.53 | 10 min | 1.67 | 10 min | 1.84 |
| SC-72.01 | 10 min | 0.87 | 10 min | 0.96 | 10 min | 1.05 |
| SC-73.01 | 10 min | 0.70 | 10 min | 0.77 | 10 min | 0.84 |
| SC-74.01 | 10 min | 0.81 | 10 min | 0.89 | 10 min | 0.98 |
| SC-75.01 | 10 min | 0.47 | 10 min | 0.52 | 10 min | 0.58 |
| SC-75.02 | 10 min | 1.91 | 10 min | 2.13 | 10 min | 2.37 |
| SC-75.03 | 10 min | 2.72 | 10 min | 3.03 | 10 min | 3.36 |
| SC-75.04 | 10 min | 4.69 | 10 min | 5.16 | 10 min | 5.68 |
| SC-76.01 | 10 min | 0.65 | 10 min | 0.73 | 10 min | 0.82 |
| SC-77.01 | 10 min | 0.96 | 10 min | 1.05 | 10 min | 1.15 |
| SC-77.02 | 10 min | 1.45 | 10 min | 1.58 | 10 min | 1.73 |
| SC-77.03 | 10 min | 2.01 | 10 min | 2.20 | 10 min | 2.42 |
| SC-78.01 | 10 min | 0.90 | 10 min | 0.99 | 10 min | 1.09 |
| SC-79.01 | 10 min | 0.96 | 10 min | 1.05 | 10 min | 1.15 |
| SC-79.02 | 10 min | 1.78 | 10 min | 1.95 | 10 min | 2.13 |
| SC-79.03 | 10 min | 3.90 | 10 min | 4.30 | 10 min | 4.73 |
| SC-8.01 | 10 min | 0.76 | 10 min | 0.84 | 10 min | 0.93 |

## Climate Change Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-8.02 | 10 min | 1.82 | 10 min | 2.01 | 10 min | 2.21 |
| SC-8.03 | 10 min | 4.76 | 10 min | 5.23 | 10 min | 5.74 |
| SC-8.04 | 10 min | 8.34 | 10 min | 9.22 | 10 min | 10.17 |
| SC-8.05 | 10 min | 9.11 | 10 min | 10.04 | 10 min | 11.01 |
| SC-8.06 | 10 min | 9.46 | 10 min | 10.40 | 10 min | 11.41 |
| SC-80.01 | 10 min | 0.94 | 10 min | 1.03 | 10 min | 1.13 |
| SC-80.02 | 10 min | 1.86 | 10 min | 2.04 | 10 min | 2.24 |
| SC-81.01 | 10 min | 0.70 | 10 min | 0.77 | 10 min | 0.84 |
| SC-81.02 | 10 min | 2.07 | 10 min | 2.26 | 10 min | 2.48 |
| SC-82.01 | 10 min | 0.84 | 10 min | 0.92 | 10 min | 1.00 |
| SC-83.01 | 10 min | 0.53 | 10 min | 0.58 | 10 min | 0.64 |
| SC-84.01 | 10 min | 0.79 | 10 min | 0.86 | 10 min | 0.94 |
| SC-84.02 | 10 min | 1.92 | 10 min | 2.12 | 10 min | 2.34 |
| SC-84.03 | 10 min | 2.54 | 10 min | 2.80 | 10 min | 3.07 |
| SC-84.04 | 10 min | 3.01 | 10 min | 3.31 | 10 min | 3.65 |
| SC-84.05 | 10 min | 3.56 | 10 min | 3.94 | 10 min | 4.35 |
| SC-84.06 | 10 min | 3.93 | 10 min | 4.33 | 10 min | 4.76 |
| SC-85.01 | 10 min | 0.49 | 10 min | 0.54 | 10 min | 0.58 |
| SC-86.01 | 10 min | 0.75 | 10 min | 0.82 | 10 min | 0.90 |
| SC-86.02 | 10 min | 1.44 | 10 min | 1.58 | 10 min | 1.74 |
| SC-87.01 | 10 min | 1.10 | 10 min | 1.20 | 10 min | 1.32 |
| SC-87.02 | 10 min | 1.84 | 10 min | 2.01 | 10 min | 2.20 |
| SC-88.01 | 10 min | 0.49 | 10 min | 0.54 | 10 min | 0.59 |
| SC-88.02 | 10 min | 0.80 | 10 min | 0.88 | 10 min | 0.96 |
| SC-89.01 | 10 min | 0.54 | 10 min | 0.59 | 10 min | 0.65 |
| SC-89.02 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.71 |
| SC-9.01 | 10 min | 0.71 | 10 min | 0.77 | 10 min | 0.85 |
| SC-90.01 | 10 min | 0.21 | 10 min | 0.24 | 10 min | 0.26 |
| SC-91.01 | 10 min | 0.64 | 10 min | 0.70 | 10 min | 0.77 |
| SC-91.02 | 10 min | 1.31 | 10 min | 1.44 | 10 min | 1.58 |
| SC-92.01 | 10 min | 0.63 | 10 min | 0.70 | 10 min | 0.77 |
| SC-92.02 | 10 min | 1.75 | 10 min | 1.93 | 10 min | 2.13 |
| SC-93.01 | 10 min | 0.69 | 10 min | 0.75 | 10 min | 0.82 |
| SC-94.01 | 10 min | 0.76 | 10 min | 0.84 | 10 min | 0.91 |
| SC-94.02 | 10 min | 1.75 | 10 min | 1.93 | 10 min | 2.13 |
| SC-95.01 | 10 min | 0.45 | 10 min | 0.50 | 10 min | 0.54 |
| SC-95.02 | 10 min | 1.09 | 10 min | 1.19 | 10 min | 1.30 |
| SC-96.01 | 10 min | 0.50 | 10 min | 0.55 | 10 min | 0.60 |
| SC-97.01 | 10 min | 0.34 | 10 min | 0.38 | 10 min | 0.41 |
| SC-97.02 | 10 min | 1.94 | 10 min | 2.13 | 10 min | 2.35 |
| SC-98.01 | 10 min | 0.59 | 10 min | 0.65 | 10 min | 0.71 |
| SC-99.01 | 10 min | 0.57 | 10 min | 0.63 | 10 min | 0.68 |
| SC-99.02 | 10 min | 1.54 | 10 min | 1.69 | 10 min | 1.86 |
| SC-99.03 | 10 min | 2.64 | 10 min | 2.90 | 10 min | 3.19 |

| Climate Change Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-99.04 | 10 min | 7.03 | 10 min | 7.77 | 10 min | 8.58 |
| Dummy1 | 15 min | 35.32 | 10 min | 39.12 | 10 min | 43.30 |
| Dummy2 | 25 min | 55.39 | 25 min | 61.12 | 25 min | 67.23 |
| Dummy3 | 30 min | 106.76 | 30 min | 117.78 | 30 min | 129.64 |
| DummyOut | 1.50 hour | 113.93 | 1.50 hour | 125.12 | 1.50 hour | 136.98 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 15 min | 3.43 | 15 min | 3.83 | 15 min | 4.22 |
| SC-1.02 | 15 min | 7.68 | 15 min | 8.56 | 15 min | 9.41 |
| SC-1.03 | 15 min | 9.07 | 15 min | 10.04 | 15 min | 11.02 |
| SC-1.04 | 15 min | 25.67 | 15 min | 27.77 | 15 min | 30.50 |
| SC-1.05 | 15 min | 28.11 | 15 min | 30.59 | 15 min | 33.58 |
| SC-1.06 | 15 min | 33.26 | 15 min | 36.51 | 15 min | 40.07 |
| SC-1.07 | 15 min | 34.12 | 15 min | 37.52 | 15 min | 41.18 |
| SC-1.08 | 30 min | 52.56 | 30 min | 58.55 | 30 min | 64.98 |
| SC-1.09 | 45 min | 58.08 | 45 min | 64.54 | 30 min | 71.63 |
| SC-1.10 | 45 min | 59.18 | 45 min | 65.79 | 45 min | 72.70 |
| SC-1.11 | 45 min | 79.43 | 30 min | 88.73 | 30 min | 98.50 |
| SC-1.12 | 45 min | 87.39 | 30 min | 97.96 | 30 min | 108.64 |
| SC-1.13 | 45 min | 94.20 | 30 min | 105.94 | 30 min | 117.40 |
| SC-1.14 | 15 min | 109.25 | 15 min | 122.97 | 15 min | 134.59 |
| SC-1.15 | 15 min | 119.44 | 15 min | 134.43 | 15 min | 147.11 |
| SC-1.16 | 15 min | 133.98 | 15 min | 151.94 | 15 min | 166.31 |
| SC-1.17 | 15 min | 135.93 | 15 min | 154.15 | 15 min | 168.76 |
| SC-1.18 | 1.50 hour | 111.80 | 45 min | 127.30 | 45 min | 141.40 |
| SC-1.19 | 1.50 hour | 197.00 | 1.50 hour | 221.40 | 1.50 hour | 249.30 |
| SC-1.20 | 1.50 hour | 199.30 | 1.50 hour | 224.20 | 1.50 hour | 252.90 |
| SC-1.21 | 1.50 hour | 201.12 | 1.50 hour | 226.44 | 1.50 hour | 255.54 |
| SC-1.22 | 1.50 hour | 203.88 | 1.50 hour | 229.58 | 1.50 hour | 259.22 |
| SC-1.23 | 2 hours | 212.56 | 2 hours | 239.50 | 1.50 hour | 269.07 |
| SC-1.24 | 2 hours | 231.40 | 2 hours | 261.23 | 2 hours | 292.92 |
| SC-1.25 | 2 hours | 232.97 | 2 hours | 262.96 | 2 hours | 295.14 |
| SC-1.26 | 2 hours | 238.04 | 2 hours | 268.50 | 2 hours | 302.24 |
| SC-1.27 | 2 hours | 239.39 | 2 hours | 270.04 | 2 hours | 303.98 |
| SC-1.28 | 2.50 hours | 263.65 | 2.50 hours | 295.29 | 2 hours | 330.80 |
| SC-1.29 | 2.50 hours | 271.94 | 2.50 hours | 305.22 | 2 hours | 340.09 |
| SC-1.30 | 2.50 hours | 274.32 | 2.50 hours | 308.17 | 2 hours | 342.97 |
| SC-1.31 | 2.50 hours | 275.98 | 2.50 hours | 310.38 | 2 hours | 345.16 |
| SC-1.32 | 2.50 hours | 278.74 | 2.50 hours | 313.74 | 2 hours | 348.40 |
| SC-1.33 | 2.50 hours | 285.41 | 2.50 hours | 321.67 | 2.50 hours | 357.27 |
| SC-1.34 | 2.50 hours | 287.13 | 2.50 hours | 323.58 | 2.50 hours | 359.67 |
| SC-1.35 | 2.50 hours | 288.85 | 2.50 hours | 325.47 | 2.50 hours | 362.38 |
| SC-1.36 | 2.50 hours | 298.86 | 2.50 hours | 337.38 | 2.50 hours | 378.06 |
| SC-10.01 | 15 min | 3.84 | 15 min | 4.31 | 15 min | 4.73 |
| SC-100.01 | 15 min | 3.83 | 15 min | 4.28 | 15 min | 4.68 |
| SC-100.02 | 15 min | 6.87 | 15 min | 7.73 | 15 min | 8.48 |
| SC-101.01 | 15 min | 4.35 | 15 min | 4.91 | 15 min | 5.38 |
| SC-101.02 | 15 min | 7.91 | 15 min | 8.93 | 15 min | 9.80 |
| SC-102.01 | 15 min | 3.23 | 15 min | 3.62 | 15 min | 3.96 |
| SC-102.02 | 15 min | 13.49 | 15 min | 15.00 | 15 min | 16.44 |
| SC-103.01 | 15 min | 2.19 | 15 min | 2.43 | 15 min | 2.66 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-103.02 | 15 min | 8.20 | 15 min | 9.14 | 15 min | 10.01 |
| SC-104.01 | 15 min | 2.01 | 15 min | 2.23 | 15 min | 2.44 |
| SC-105.01 | 15 min | 2.45 | 15 min | 2.73 | 15 min | 2.99 |
| SC-105.02 | 15 min | 6.12 | 15 min | 6.83 | 15 min | 7.48 |
| SC-105.03 | 15 min | 14.25 | 15 min | 15.73 | 15 min | 17.24 |
| SC-105.04 | 15 min | 19.38 | 15 min | 21.31 | 15 min | 23.35 |
| SC-105.05 | 15 min | 24.12 | 15 min | 26.49 | 15 min | 29.03 |
| SC-105.06 | 15 min | 27.27 | 15 min | 29.91 | 15 min | 32.82 |
| SC-105.07 | 15 min | 41.52 | 15 min | 45.80 | 15 min | 50.31 |
| SC-105.08 | 15 min | 48.14 | 15 min | 53.64 | 15 min | 58.96 |
| SC-105.09 | 15 min | 62.17 | 15 min | 70.96 | 15 min | 77.91 |
| SC-106.01 | 15 min | 1.75 | 15 min | 1.94 | 15 min | 2.13 |
| SC-107.01 | 15 min | 3.13 | 15 min | 3.48 | 15 min | 3.82 |
| SC-108.01 | 15 min | 2.15 | 15 min | 2.41 | 15 min | 2.64 |
| SC-109.01 | 15 min | 2.87 | 15 min | 3.22 | 15 min | 3.53 |
| SC-11.01 | 15 min | 2.41 | 15 min | 2.69 | 15 min | 2.95 |
| SC-110.01 | 15 min | 2.63 | 15 min | 2.95 | 15 min | 3.23 |
| SC-110.02 | 15 min | 6.46 | 15 min | 7.25 | 15 min | 7.96 |
| SC-110.03 | 15 min | 7.15 | 15 min | 8.00 | 15 min | 8.78 |
| SC-111.01 | 15 min | 2.56 | 15 min | 2.79 | 15 min | 3.07 |
| SC-112.01 | 15 min | 4.47 | 15 min | 4.97 | 15 min | 5.46 |
| SC-113.01 | 15 min | 1.65 | 15 min | 1.85 | 15 min | 2.03 |
| SC-113.02 | 15 min | 5.72 | 15 min | 6.49 | 15 min | 7.13 |
| SC-114.01 | 15 min | 3.03 | 15 min | 3.40 | 15 min | 3.75 |
| SC-114.02 | 15 min | 4.62 | 15 min | 5.13 | 15 min | 5.64 |
| SC-114.03 | 15 min | 9.58 | 15 min | 10.62 | 15 min | 11.65 |
| SC-115.01 | 15 min | 2.55 | 15 min | 2.86 | 15 min | 3.13 |
| SC-115.02 | 15 min | 4.21 | 15 min | 4.71 | 15 min | 5.17 |
| SC-116.01 | 15 min | 2.53 | 15 min | 2.83 | 15 min | 3.10 |
| SC-116.02 | 15 min | 4.26 | 15 min | 4.80 | 15 min | 5.27 |
| SC-117.01 | 15 min | 1.50 | 15 min | 1.69 | 15 min | 1.85 |
| SC-118.01 | 15 min | 2.77 | 15 min | 3.11 | 15 min | 3.40 |
| SC-119.01 | 15 min | 4.45 | 15 min | 4.93 | 15 min | 5.41 |
| SC-119.02 | 15 min | 11.44 | 15 min | 12.53 | 15 min | 13.75 |
| SC-12.01 | 15 min | 2.43 | 15 min | 2.74 | 15 min | 3.00 |
| SC-12.02 | 15 min | 4.14 | 15 min | 4.64 | 15 min | 5.09 |
| SC-12.03 | 15 min | 8.30 | 15 min | 9.22 | 15 min | 10.11 |
| SC-12.04 | 15 min | 10.91 | 15 min | 11.98 | 15 min | 13.13 |
| SC-120.01 | 15 min | 2.05 | 15 min | 2.31 | 15 min | 2.53 |
| SC-121.01 | 15 min | 2.51 | 15 min | 2.82 | 15 min | 3.10 |
| SC-122.01 | 15 min | 3.81 | 15 min | 4.28 | 15 min | 4.68 |
| SC-122.02 | 15 min | 6.45 | 15 min | 7.16 | 15 min | 7.85 |
| SC-122.03 | 15 min | 8.77 | 15 min | 10.04 | 15 min | 10.99 |
| SC-123.01 | 15 min | 2.01 | 15 min | 2.25 | 15 min | 2.46 |

| Climate Change Sensitivity Results for PMF | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-123.02 | 15 min | 6.06 | 15 min | 6.65 | 15 min | 7.29 |
| SC-123.03 | 15 min | 44.93 | 15 min | 49.85 | 15 min | 54.83 |
| SC-123.04 | 15 min | 45.78 | 15 min | 50.81 | 15 min | 55.89 |
| SC-123.05 | 15 min | 57.79 | 15 min | 64.38 | 15 min | 70.73 |
| SC-123.06 | 15 min | 59.87 | 15 min | 66.84 | 15 min | 73.42 |
| SC-123.07 | 15 min | 65.01 | 15 min | 72.84 | 15 min | 79.97 |
| SC-124.01 | 15 min | 3.25 | 15 min | 3.64 | 15 min | 4.02 |
| SC-124.02 | 15 min | 20.26 | 15 min | 22.30 | 15 min | 24.57 |
| SC-125.01 | 15 min | 4.51 | 15 min | 5.10 | 15 min | 5.61 |
| SC-126.01 | 15 min | 1.85 | 15 min | 2.08 | 15 min | 2.28 |
| SC-126.02 | 15 min | 5.83 | 15 min | 6.47 | 15 min | 7.14 |
| SC-126.03 | 15 min | 10.16 | 15 min | 11.00 | 15 min | 12.14 |
| SC-127.01 | 15 min | 4.24 | 15 min | 4.75 | 15 min | 5.20 |
| SC-127.02 | 15 min | 11.89 | 15 min | 13.37 | 15 min | 14.62 |
| SC-128.01 | 15 min | 4.27 | 15 min | 4.75 | 15 min | 5.20 |
| SC-129.01 | 15 min | 2.37 | 15 min | 2.68 | 15 min | 2.94 |
| SC-13.01 | 15 min | 2.50 | 15 min | 2.81 | 15 min | 3.08 |
| SC-130.01 | 15 min | 3.20 | 15 min | 3.59 | 15 min | 3.93 |
| SC-131.01 | 15 min | 1.25 | 15 min | 1.40 | 15 min | 1.54 |
| SC-132.01 | 15 min | 1.83 | 15 min | 2.06 | 15 min | 2.26 |
| SC-133.01 | 15 min | 1.29 | 15 min | 1.44 | 15 min | 1.58 |
| SC-134.01 | 15 min | 1.12 | 15 min | 1.26 | 15 min | 1.38 |
| SC-134.02 | 15 min | 4.25 | 15 min | 4.81 | 15 min | 5.28 |
| SC-134.03 | 15 min | 8.47 | 15 min | 9.60 | 15 min | 10.51 |
| SC-134.04 | 15 min | 11.98 | 15 min | 13.33 | 15 min | 14.58 |
| SC-135.01 | 15 min | 1.02 | 15 min | 1.13 | 15 min | 1.24 |
| SC-135.02 | 15 min | 5.85 | 15 min | 6.51 | 15 min | 7.14 |
| SC-135.03 | 15 min | 7.82 | 15 min | 8.60 | 15 min | 9.43 |
| SC-135.04 | 15 min | 17.28 | 15 min | 19.29 | 15 min | 21.15 |
| SC-135.05 | 15 min | 19.64 | 15 min | 22.04 | 15 min | 24.13 |
| SC-135.06 | 15 min | 31.47 | 15 min | 35.74 | 15 min | 39.16 |
| SC-136.01 | 15 min | 2.84 | 15 min | 3.18 | 15 min | 3.48 |
| SC-137.01 | 15 min | 3.08 | 15 min | 3.41 | 15 min | 3.74 |
| SC-138.01 | 15 min | 3.36 | 15 min | 3.71 | 15 min | 4.06 |
| SC-139.01 | 15 min | 3.22 | 15 min | 3.61 | 15 min | 3.97 |
| SC-139.02 | 15 min | 4.02 | 15 min | 4.46 | 15 min | 4.90 |
| SC-14.01 | 15 min | 4.31 | 15 min | 4.83 | 15 min | 5.29 |
| SC-14.02 | 15 min | 7.02 | 15 min | 7.83 | 15 min | 8.59 |
| SC-14.03 | 15 min | 9.27 | 15 min | 10.26 | 15 min | 11.25 |
| SC-140.01 | 15 min | 2.29 | 15 min | 2.55 | 15 min | 2.80 |
| SC-141.01 | 15 min | 4.25 | 15 min | 4.74 | 15 min | 5.20 |
| SC-142.01 | 15 min | 7.37 | 15 min | 8.19 | 15 min | 8.99 |
| SC-143.01 | 15 min | 2.54 | 15 min | 2.85 | 15 min | 3.15 |
| SC-143.02 | 15 min | 20.25 | 15 min | 22.98 | 15 min | 25.19 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-144.01 | 15 min | 2.68 | 15 min | 2.99 | 15 min | 3.29 |
| SC-144.02 | 15 min | 4.05 | 15 min | 4.53 | 15 min | 4.99 |
| SC-144.03 | 15 min | 5.75 | 15 min | 6.41 | 15 min | 7.05 |
| SC-144.04 | 15 min | 10.14 | 15 min | 11.53 | 15 min | 12.65 |
| SC-144.05 | 15 min | 17.83 | 15 min | 21.02 | 15 min | 23.02 |
| SC-145.01 | 15 min | 3.36 | 15 min | 3.72 | 15 min | 4.07 |
| SC-145.02 | 15 min | 6.28 | 15 min | 7.07 | 15 min | 7.74 |
| SC-146.01 | 15 min | 8.76 | 15 min | 9.59 | 15 min | 10.56 |
| SC-147.01 | 15 min | 3.87 | 15 min | 4.23 | 15 min | 4.66 |
| SC-147.02 | 15 min | 5.40 | 15 min | 5.95 | 15 min | 6.53 |
| SC-147.03 | 15 min | 13.40 | 15 min | 14.65 | 15 min | 16.07 |
| SC-148.01 | 15 min | 2.80 | 15 min | 3.15 | 15 min | 3.44 |
| SC-148.02 | 15 min | 6.88 | 15 min | 7.55 | 15 min | 8.27 |
| SC-149.01 | 15 min | 2.16 | 15 min | 2.40 | 15 min | 2.65 |
| SC-149.02 | 15 min | 7.55 | 15 min | 8.30 | 15 min | 9.09 |
| SC-15.01 | 15 min | 4.47 | 15 min | 4.97 | 15 min | 5.45 |
| SC-15.02 | 15 min | 5.96 | 15 min | 6.66 | 15 min | 7.30 |
| SC-15.03 | 15 min | 9.66 | 15 min | 10.72 | 15 min | 11.74 |
| SC-150.01 | 15 min | 2.34 | 15 min | 2.62 | 15 min | 2.87 |
| SC-150.02 | 15 min | 4.77 | 15 min | 5.34 | 15 min | 5.86 |
| SC-150.03 | 15 min | 12.29 | 15 min | 13.68 | 15 min | 14.99 |
| SC-150.04 | 15 min | 16.20 | 15 min | 18.06 | 15 min | 19.80 |
| SC-150.05 | 15 min | 22.96 | 15 min | 25.51 | 15 min | 27.97 |
| SC-150.06 | 15 min | 43.35 | 15 min | 48.29 | 15 min | 52.96 |
| SC-150.07 | 15 min | 70.17 | 15 min | 78.28 | 15 min | 85.83 |
| SC-150.08 | 30 min | 79.47 | 30 min | 88.53 | 15 min | 99.70 |
| SC-150.09 | 30 min | 85.16 | 30 min | 94.96 | 30 min | 105.65 |
| SC-150.10 | 30 min | 102.59 | 30 min | 114.63 | 30 min | 127.25 |
| SC-150.11 | 30 min | 133.14 | 30 min | 148.56 | 30 min | 164.63 |
| SC-150.12 | 30 min | 163.37 | 30 min | 181.41 | 30 min | 201.63 |
| SC-150.13 | 30 min | 178.60 | 30 min | 197.93 | 30 min | 219.86 |
| SC-150.14 | 30 min | 238.08 | 30 min | 267.07 | 30 min | 295.78 |
| SC-150.15 | 30 min | 240.74 | 30 min | 269.78 | 30 min | 298.72 |
| SC-150.16 | 45 min | 250.39 | 45 min | 278.69 | 45 min | 307.42 |
| SC-150.17 | 45 min | 255.94 | 45 min | 285.41 | 45 min | 314.74 |
| SC-151.01 | 15 min | 3.10 | 15 min | 3.46 | 15 min | 3.80 |
| SC-151.02 | 15 min | 4.98 | 15 min | 5.55 | 15 min | 6.09 |
| SC-152.01 | 15 min | 2.83 | 15 min | 3.13 | 15 min | 3.43 |
| SC-153.01 | 15 min | 2.37 | 15 min | 2.59 | 15 min | 2.83 |
| SC-153.02 | 15 min | 5.63 | 15 min | 6.28 | 15 min | 6.88 |
| SC-154.01 | 15 min | 4.31 | 15 min | 4.80 | 15 min | 5.27 |
| SC-154.02 | 15 min | 15.19 | 15 min | 17.04 | 15 min | 18.70 |
| SC-155.01 | 15 min | 1.75 | 15 min | 1.98 | 15 min | 2.17 |
| SC-155.02 | 15 min | 4.84 | 15 min | 5.41 | 15 min | 5.94 |

| Climate Change Sensitivity Results for PMF | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-156.01 | 15 min | 1.75 | 15 min | 1.93 | 15 min | 2.12 |
| SC-157.01 | 15 min | 2.11 | 15 min | 2.32 | 15 min | 2.54 |
| SC-158.01 | 15 min | 2.99 | 15 min | 3.35 | 15 min | 3.68 |
| SC-158.02 | 15 min | 4.04 | 15 min | 4.47 | 15 min | 4.89 |
| SC-158.03 | 15 min | 8.91 | 15 min | 9.98 | 15 min | 10.95 |
| SC-158.04 | 15 min | 15.72 | 15 min | 17.56 | 15 min | 19.26 |
| SC-159.01 | 15 min | 2.39 | 15 min | 2.68 | 15 min | 2.94 |
| SC-16.01 | 15 min | 2.87 | 15 min | 3.22 | 15 min | 3.53 |
| SC-160.01 | 15 min | 2.06 | 15 min | 2.31 | 15 min | 2.53 |
| SC-160.02 | 15 min | 4.89 | 15 min | 5.49 | 15 min | 6.02 |
| SC-161.01 | 15 min | 2.47 | 15 min | 2.77 | 15 min | 3.04 |
| SC-161.02 | 15 min | 4.92 | 15 min | 5.47 | 15 min | 6.00 |
| SC-162.01 | 15 min | 3.35 | 15 min | 3.70 | 15 min | 4.06 |
| SC-163.01 | 15 min | 2.23 | 15 min | 2.52 | 15 min | 2.76 |
| SC-163.02 | 15 min | 4.15 | 15 min | 4.67 | 15 min | 5.13 |
| SC-163.03 | 15 min | 6.70 | 15 min | 7.54 | 15 min | 8.28 |
| SC-163.04 | 15 min | 9.13 | 15 min | 10.14 | 15 min | 11.12 |
| SC-163.05 | 15 min | 15.62 | 15 min | 17.30 | 15 min | 18.98 |
| SC-164.01 | 15 min | 3.00 | 15 min | 3.31 | 15 min | 3.62 |
| SC-165.01 | 15 min | 2.55 | 15 min | 2.83 | 15 min | 3.10 |
| SC-165.02 | 15 min | 6.63 | 15 min | 7.28 | 15 min | 7.97 |
| SC-165.03 | 15 min | 8.73 | 15 min | 9.60 | 15 min | 10.51 |
| SC-165.04 | 15 min | 19.79 | 15 min | 21.95 | 15 min | 24.06 |
| SC-165.05 | 15 min | 33.26 | 15 min | 36.41 | 15 min | 39.92 |
| SC-166.01 | 15 min | 2.34 | 15 min | 2.58 | 15 min | 2.83 |
| SC-167.01 | 15 min | 3.35 | 15 min | 3.75 | 15 min | 4.10 |
| SC-167.02 | 15 min | 8.89 | 15 min | 9.92 | 15 min | 10.88 |
| SC-168.01 | 15 min | 2.74 | 15 min | 3.06 | 15 min | 3.36 |
| SC-169.01 | 15 min | 2.59 | 15 min | 2.86 | 15 min | 3.13 |
| SC-169.02 | 15 min | 4.85 | 15 min | 5.43 | 15 min | 5.97 |
| SC-169.03 | 15 min | 10.79 | 15 min | 11.88 | 15 min | 13.01 |
| SC-17.01 | 15 min | 2.50 | 15 min | 2.81 | 15 min | 3.08 |
| SC-17.02 | 15 min | 4.56 | 15 min | 5.09 | 15 min | 5.58 |
| SC-17.03 | 15 min | 7.71 | 15 min | 8.71 | 15 min | 9.54 |
| SC-17.04 | 15 min | 19.01 | 15 min | 21.17 | 15 min | 23.17 |
| SC-17.05 | 15 min | 26.75 | 15 min | 29.73 | 15 min | 32.55 |
| SC-17.06 | 15 min | 30.99 | 15 min | 34.37 | 15 min | 37.65 |
| SC-17.07 | 15 min | 33.69 | 15 min | 37.33 | 15 min | 40.88 |
| SC-170.01 | 15 min | 2.30 | 15 min | 2.55 | 15 min | 2.80 |
| SC-171.01 | 15 min | 1.36 | 15 min | 1.53 | 15 min | 1.67 |
| SC-172.01 | 15 min | 3.13 | 15 min | 3.50 | 15 min | 3.84 |
| SC-172.02 | 15 min | 5.61 | 15 min | 6.16 | 15 min | 6.75 |
| SC-173.01 | 30 min | 4.34 | 15 min | 4.90 | 15 min | 5.45 |
| SC-173.02 | 15 min | 7.91 | 15 min | 8.74 | 15 min | 9.68 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-173.03 | 30 min | 8.23 | 15 min | 9.07 | 15 min | 10.04 |
| SC-173.04 | 15 min | 12.22 | 15 min | 13.20 | 15 min | 14.54 |
| SC-173.05 | 15 min | 14.36 | 15 min | 15.41 | 15 min | 16.92 |
| SC-174.01 | 15 min | 2.00 | 15 min | 2.22 | 15 min | 2.43 |
| SC-175.01 | 15 min | 3.58 | 15 min | 4.02 | 15 min | 4.41 |
| SC-175.02 | 15 min | 7.57 | 15 min | 8.54 | 15 min | 9.35 |
| SC-175.03 | 15 min | 12.27 | 15 min | 13.63 | 15 min | 14.94 |
| SC-175.04 | 15 min | 15.56 | 15 min | 17.38 | 15 min | 19.08 |
| SC-175.05 | 15 min | 18.17 | 15 min | 20.07 | 15 min | 22.02 |
| SC-176.01 | 15 min | 1.85 | 15 min | 2.07 | 15 min | 2.29 |
| SC-177.01 | 15 min | 2.02 | 15 min | 2.24 | 15 min | 2.46 |
| SC-177.02 | 15 min | 5.74 | 15 min | 6.33 | 15 min | 6.94 |
| SC-177.03 | 15 min | 15.77 | 15 min | 17.39 | 15 min | 19.08 |
| SC-177.04 | 15 min | 20.93 | 15 min | 23.06 | 15 min | 25.27 |
| SC-178.01 | 15 min | 4.43 | 15 min | 4.93 | 15 min | 5.41 |
| SC-178.02 | 15 min | 7.02 | 15 min | 7.78 | 15 min | 8.53 |
| SC-179.01 | 15 min | 3.19 | 15 min | 3.58 | 15 min | 3.92 |
| SC-18.01 | 15 min | 2.86 | 15 min | 3.19 | 15 min | 3.50 |
| SC-18.02 | 15 min | 4.79 | 15 min | 5.33 | 15 min | 5.83 |
| SC-180.01 | 15 min | 3.08 | 15 min | 3.43 | 15 min | 3.76 |
| SC-180.02 | 15 min | 5.54 | 15 min | 6.14 | 15 min | 6.74 |
| SC-180.03 | 15 min | 7.85 | 15 min | 8.73 | 15 min | 9.59 |
| SC-180.04 | 15 min | 11.12 | 15 min | 12.43 | 15 min | 13.63 |
| SC-181.01 | 15 min | 1.68 | 15 min | 1.89 | 15 min | 2.08 |
| SC-181.02 | 15 min | 4.79 | 15 min | 5.35 | 15 min | 5.88 |
| SC-181.03 | 15 min | 7.72 | 15 min | 8.55 | 15 min | 9.39 |
| SC-181.04 | 15 min | 14.99 | 15 min | 16.70 | 15 min | 18.36 |
| SC-181.05 | 15 min | 16.77 | 15 min | 18.73 | 15 min | 20.58 |
| SC-181.06 | 15 min | 18.52 | 15 min | 20.63 | 15 min | 22.64 |
| SC-181.07 | 15 min | 41.09 | 15 min | 45.95 | 15 min | 50.38 |
| SC-181.08 | 15 min | 42.63 | 15 min | 47.56 | 15 min | 52.14 |
| SC-182.01 | 15 min | 2.19 | 15 min | 2.45 | 15 min | 2.69 |
| SC-182.02 | 15 min | 3.73 | 15 min | 4.15 | 15 min | 4.55 |
| SC-182.03 | 15 min | 6.63 | 15 min | 7.38 | 15 min | 8.13 |
| SC-183.01 | 15 min | 2.38 | 15 min | 2.67 | 15 min | 2.94 |
| SC-183.02 | 15 min | 5.08 | 15 min | 5.59 | 15 min | 6.14 |
| SC-183.03 | 15 min | 12.64 | 15 min | 14.45 | 15 min | 15.86 |
| SC-183.04 | 15 min | 14.94 | 15 min | 16.81 | 15 min | 18.44 |
| SC-184.01 | 15 min | 5.14 | 15 min | 5.74 | 15 min | 6.31 |
| SC-185.01 | 15 min | 2.95 | 15 min | 3.30 | 15 min | 3.62 |
| SC-185.02 | 15 min | 6.86 | 15 min | 7.70 | 15 min | 8.43 |
| SC-186.01 | 15 min | 1.10 | 15 min | 1.21 | 15 min | 1.32 |
| SC-187.01 | 15 min | 3.38 | 15 min | 3.79 | 15 min | 4.15 |
| SC-187.02 | 15 min | 6.91 | 15 min | 7.74 | 15 min | 8.49 |



Catchment Simulation Solutions

| Climate Change Sensitivity Results for PMF | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-187.03 | 15 min | 8.20 | 15 min | 9.18 | 15 min | 10.07 |
| SC-187.04 | 15 min | 10.53 | 15 min | 11.72 | 15 min | 12.84 |
| SC-187.05 | 15 min | 12.18 | 15 min | 13.60 | 15 min | 14.88 |
| SC-188.01 | 15 min | 3.15 | 15 min | 3.54 | 15 min | 3.88 |
| SC-188.02 | 15 min | 4.89 | 15 min | 5.47 | 15 min | 5.99 |
| SC-189.01 | 15 min | 3.55 | 15 min | 3.98 | 15 min | 4.37 |
| SC-189.02 | 15 min | 6.50 | 15 min | 7.27 | 15 min | 7.97 |
| SC-19.01 | 15 min | 1.90 | 15 min | 2.15 | 15 min | 2.35 |
| SC-190.01 | 15 min | 1.59 | 15 min | 1.77 | 15 min | 1.94 |
| SC-191.01 | 15 min | 3.23 | 15 min | 3.62 | 15 min | 3.97 |
| SC-191.02 | 15 min | 4.89 | 15 min | 5.47 | 15 min | 6.00 |
| SC-191.03 | 15 min | 8.98 | 15 min | 10.08 | 15 min | 11.06 |
| SC-191.04 | 15 min | 12.98 | 15 min | 14.49 | 15 min | 15.88 |
| SC-191.05 | 15 min | 18.07 | 15 min | 20.22 | 15 min | 22.17 |
| SC-191.06 | 15 min | 31.71 | 15 min | 35.20 | 15 min | 38.67 |
| SC-191.07 | 15 min | 39.11 | 15 min | 43.02 | 15 min | 47.24 |
| SC-191.08 | 15 min | 44.06 | 15 min | 47.70 | 15 min | 52.34 |
| SC-192.01 | 15 min | 9.42 | 15 min | 10.40 | 15 min | 11.41 |
| SC-193.01 | 15 min | 4.30 | 15 min | 4.81 | 15 min | 5.29 |
| SC-194.01 | 15 min | 4.96 | 15 min | 5.57 | 15 min | 6.15 |
| SC-194.02 | 15 min | 22.91 | 15 min | 26.02 | 15 min | 28.77 |
| SC-194.03 | 15 min | 24.79 | 15 min | 27.67 | 15 min | 30.66 |
| SC-195.01 | 15 min | 8.14 | 15 min | 9.11 | 15 min | 10.09 |
| SC-196.01 | 15 min | 14.64 | 15 min | 16.33 | 15 min | 18.02 |
| SC-197.01 | 15 min | 10.67 | 15 min | 12.01 | 15 min | 13.25 |
| SC-198.01 | 15 min | 11.86 | 15 min | 13.16 | 15 min | 14.45 |
| SC-2.01 | 15 min | 2.28 | 15 min | 2.57 | 15 min | 2.82 |
| SC-20.01 | 15 min | 2.24 | 15 min | 2.49 | 15 min | 2.73 |
| SC-200.01 | 15 min | 2.95 | 15 min | 3.25 | 15 min | 3.56 |
| SC-200.02 | 15 min | 5.11 | 15 min | 5.71 | 15 min | 6.25 |
| SC-200.03 | 15 min | 9.84 | 15 min | 10.90 | 15 min | 11.96 |
| SC-200.04 | 15 min | 15.13 | 15 min | 16.78 | 15 min | 18.40 |
| SC-200.05 | 15 min | 24.16 | 15 min | 27.22 | 15 min | 29.84 |
| SC-200.06 | 15 min | 41.03 | 15 min | 45.78 | 15 min | 50.19 |
| SC-200.07 | 15 min | 49.25 | 15 min | 54.64 | 15 min | 59.89 |
| SC-200.08 | 15 min | 57.30 | 15 min | 63.49 | 15 min | 69.54 |
| SC-200.09 | 15 min | 83.94 | 15 min | 93.72 | 15 min | 102.66 |
| SC-201.01 | 15 min | 3.51 | 15 min | 3.91 | 15 min | 4.29 |
| SC-202.01 | 15 min | 3.52 | 15 min | 3.94 | 15 min | 4.31 |
| SC-203.01 | 15 min | 3.72 | 15 min | 4.20 | 15 min | 4.61 |
| SC-204.01 | 15 min | 5.52 | 15 min | 6.24 | 15 min | 6.85 |
| SC-205.01 | 15 min | 2.60 | 15 min | 2.89 | 15 min | 3.17 |
| SC-206.01 | 15 min | 19.09 | 15 min | 21.36 | 15 min | 23.41 |
| SC-207.01 | 15 min | 3.55 | 15 min | 3.92 | 15 min | 4.29 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-207.02 | 15 min | 7.13 | 15 min | 7.95 | 15 min | 8.71 |
| SC-207.03 | 15 min | 8.15 | 15 min | 9.18 | 15 min | 10.07 |
| SC-207.04 | 15 min | 23.38 | 15 min | 26.41 | 15 min | 28.96 |
| SC-207.05 | 15 min | 31.70 | 15 min | 36.20 | 15 min | 39.68 |
| SC-207.06 | 15 min | 34.34 | 15 min | 39.23 | 15 min | 43.00 |
| SC-207.07 | 15 min | 58.68 | 15 min | 66.24 | 15 min | 72.66 |
| SC-207.08 | 15 min | 88.51 | 15 min | 100.45 | 15 min | 110.11 |
| SC-207.09 | 15 min | 102.23 | 15 min | 116.23 | 15 min | 127.33 |
| SC-207.10 | 15 min | 105.91 | 15 min | 120.58 | 15 min | 132.10 |
| SC-207.11 | 15 min | 114.00 | 15 min | 130.41 | 15 min | 142.82 |
| SC-207.12 | 15 min | 162.68 | 15 min | 185.39 | 15 min | 203.06 |
| SC-207.13 | 15 min | 172.84 | 15 min | 197.87 | 15 min | 216.74 |
| SC-207.14 | 15 min | 177.74 | 15 min | 204.89 | 15 min | 224.36 |
| SC-208.01 | 15 min | 3.56 | 15 min | 3.98 | 15 min | 4.37 |
| SC-208.02 | 15 min | 5.30 | 15 min | 5.86 | 15 min | 6.43 |
| SC-208.03 | 15 min | 7.17 | 15 min | 7.97 | 15 min | 8.74 |
| SC-208.04 | 15 min | 11.77 | 15 min | 13.28 | 15 min | 14.54 |
| SC-208.05 | 15 min | 14.03 | 15 min | 15.79 | 15 min | 17.29 |
| SC-209.01 | 15 min | 2.44 | 15 min | 2.67 | 15 min | 2.92 |
| SC-21.01 | 15 min | 3.12 | 15 min | 3.49 | 15 min | 3.82 |
| SC-210.01 | 15 min | 5.19 | 15 min | 5.76 | 15 min | 6.32 |
| SC-210.02 | 15 min | 7.45 | 15 min | 8.33 | 15 min | 9.13 |
| SC-211.01 | 15 min | 2.68 | 15 min | 3.01 | 15 min | 3.33 |
| SC-211.02 | 15 min | 6.19 | 15 min | 6.92 | 15 min | 7.68 |
| SC-211.03 | 15 min | 9.54 | 15 min | 10.39 | 15 min | 11.53 |
| SC-211.04 | 15 min | 11.02 | 30 min | 12.02 | 15 min | 13.31 |
| SC-212.01 | 45 min | 1.27 | 45 min | 1.41 | 45 min | 1.56 |
| SC-212.02 | 30 min | 2.03 | 30 min | 2.23 | 30 min | 2.47 |
| SC-213.01 | 15 min | 2.10 | 15 min | 2.34 | 15 min | 2.56 |
| SC-213.02 | 15 min | 3.62 | 15 min | 4.12 | 15 min | 4.52 |
| SC-214.01 | 15 min | 2.64 | 15 min | 2.96 | 15 min | 3.24 |
| SC-214.02 | 15 min | 5.65 | 15 min | 6.33 | 15 min | 6.93 |
| SC-215.01 | 15 min | 2.16 | 15 min | 2.39 | 15 min | 2.62 |
| SC-215.02 | 15 min | 3.99 | 15 min | 4.46 | 15 min | 4.89 |
| SC-216.01 | 15 min | 1.88 | 15 min | 2.12 | 15 min | 2.33 |
| SC-216.02 | 15 min | 5.96 | 15 min | 6.53 | 15 min | 7.16 |
| SC-216.03 | 15 min | 9.70 | 15 min | 10.71 | 15 min | 11.74 |
| SC-216.04 | 15 min | 14.69 | 15 min | 15.86 | 15 min | 17.37 |
| SC-217.01 | 15 min | 1.35 | 15 min | 1.52 | 15 min | 1.66 |
| SC-218.01 | 15 min | 1.03 | 15 min | 1.16 | 15 min | 1.27 |
| SC-219.01 | 15 min | 1.37 | 15 min | 1.54 | 15 min | 1.68 |
| SC-22.01 | 15 min | 1.77 | 15 min | 1.97 | 15 min | 2.16 |
| SC-220.01 | 15 min | 2.16 | 15 min | 2.43 | 15 min | 2.66 |
| SC-221.01 | 15 min | 2.01 | 15 min | 2.26 | 15 min | 2.47 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-221.02 | 15 min | 4.59 | 15 min | 5.14 | 15 min | 5.64 |
| SC-221.03 | 15 min | 5.71 | 15 min | 6.33 | 15 min | 6.94 |
| SC-221.04 | 15 min | 8.25 | 15 min | 9.17 | 15 min | 10.06 |
| SC-221.05 | 15 min | 10.81 | 15 min | 12.12 | 15 min | 13.29 |
| SC-221.06 | 15 min | 11.65 | 15 min | 13.06 | 15 min | 14.31 |
| SC-222.01 | 15 min | 2.18 | 15 min | 2.44 | 15 min | 2.68 |
| SC-222.02 | 15 min | 3.62 | 15 min | 4.04 | 15 min | 4.43 |
| SC-222.03 | 15 min | 8.99 | 15 min | 9.98 | 15 min | 10.95 |
| SC-223.01 | 15 min | 0.94 | 15 min | 1.05 | 15 min | 1.15 |
| SC-224.01 | 15 min | 3.52 | 15 min | 3.88 | 15 min | 4.28 |
| SC-225.01 | 15 min | 1.74 | 15 min | 1.93 | 15 min | 2.12 |
| SC-226.01 | 15 min | 1.25 | 15 min | 1.40 | 15 min | 1.53 |
| SC-226.02 | 15 min | 3.16 | 15 min | 3.49 | 15 min | 3.82 |
| SC-226.03 | 15 min | 6.65 | 15 min | 7.32 | 15 min | 8.03 |
| SC-226.04 | 15 min | 9.99 | 15 min | 10.85 | 15 min | 11.89 |
| SC-226.05 | 15 min | 40.32 | 15 min | 43.97 | 15 min | 48.20 |
| SC-226.06 | 15 min | 45.43 | 15 min | 49.33 | 15 min | 54.07 |
| SC-226.07 | 15 min | 50.11 | 15 min | 54.71 | 15 min | 59.94 |
| SC-226.08 | 15 min | 52.70 | 15 min | 57.35 | 15 min | 62.82 |
| SC-227.01 | 15 min | 0.67 | 15 min | 0.75 | 15 min | 0.82 |
| SC-228.01 | 15 min | 1.42 | 15 min | 1.59 | 15 min | 1.75 |
| SC-229.01 | 15 min | 1.00 | 15 min | 1.12 | 15 min | 1.23 |
| SC-23.01 | 15 min | 2.30 | 15 min | 2.56 | 15 min | 2.80 |
| SC-23.02 | 15 min | 7.29 | 15 min | 8.14 | 15 min | 8.92 |
| SC-23.03 | 15 min | 9.11 | 15 min | 10.19 | 15 min | 11.18 |
| SC-230.01 | 15 min | 1.00 | 15 min | 1.11 | 15 min | 1.22 |
| SC-231.01 | 15 min | 1.11 | 15 min | 1.23 | 15 min | 1.35 |
| SC-232.01 | 15 min | 2.86 | 15 min | 3.14 | 15 min | 3.44 |
| SC-232.02 | 15 min | 4.59 | 15 min | 4.99 | 15 min | 5.47 |
| SC-232.03 | 15 min | 10.67 | 15 min | 11.78 | 15 min | 12.91 |
| SC-233.01 | 15 min | 1.93 | 15 min | 2.17 | 15 min | 2.38 |
| SC-233.02 | 15 min | 3.34 | 15 min | 3.73 | 15 min | 4.09 |
| SC-234.01 | 15 min | 2.74 | 15 min | 3.04 | 15 min | 3.34 |
| SC-234.02 | 15 min | 5.61 | 15 min | 6.20 | 15 min | 6.80 |
| SC-234.03 | 15 min | 17.04 | 15 min | 18.83 | 15 min | 20.67 |
| SC-235.01 | 15 min | 0.97 | 15 min | 1.08 | 15 min | 1.19 |
| SC-236.01 | 15 min | 1.22 | 15 min | 1.37 | 15 min | 1.50 |
| SC-236.02 | 15 min | 1.91 | 15 min | 2.17 | 15 min | 2.38 |
| SC-237.01 | 15 min | 1.77 | 15 min | 1.98 | 15 min | 2.17 |
| SC-237.02 | 15 min | 4.49 | 15 min | 4.95 | 15 min | 5.45 |
| SC-238.01 | 15 min | 1.13 | 15 min | 1.26 | 15 min | 1.38 |
| SC-238.02 | 15 min | 2.76 | 15 min | 3.07 | 15 min | 3.37 |
| SC-239.01 | 15 min | 1.49 | 15 min | 1.66 | 15 min | 1.82 |
| SC-24.01 | 15 min | 2.01 | 15 min | 2.25 | 15 min | 2.46 |

| Climate Change Sensitivity Results for PMF | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-240.01 | 15 min | 5.01 | 15 min | 5.62 | 15 min | 6.20 |
| SC-240.02 | 15 min | 7.03 | 15 min | 8.06 | 15 min | 8.90 |
| SC-241.01 | 15 min | 22.38 | 15 min | 24.83 | 15 min | 27.29 |
| SC-242.01 | 15 min | 2.05 | 15 min | 2.24 | 15 min | 2.45 |
| SC-242.02 | 15 min | 5.21 | 15 min | 5.84 | 15 min | 6.39 |
| SC-242.03 | 15 min | 7.85 | 15 min | 8.59 | 15 min | 9.41 |
| SC-242.04 | 15 min | 8.42 | 15 min | 9.25 | 15 min | 10.13 |
| SC-242.05 | 15 min | 19.06 | 15 min | 21.06 | 15 min | 23.08 |
| SC-242.06 | 15 min | 25.54 | 15 min | 28.76 | 15 min | 31.51 |
| SC-242.07 | 15 min | 28.12 | 15 min | 31.59 | 15 min | 34.60 |
| SC-242.08 | 15 min | 56.70 | 15 min | 62.40 | 15 min | 68.25 |
| SC-243.01 | 15 min | 1.80 | 15 min | 2.00 | 15 min | 2.19 |
| SC-243.02 | 15 min | 6.92 | 15 min | 7.71 | 15 min | 8.45 |
| SC-244.01 | 15 min | 2.53 | 15 min | 2.82 | 15 min | 3.09 |
| SC-245.01 | 15 min | 1.34 | 15 min | 1.50 | 15 min | 1.65 |
| SC-246.01 | 15 min | 0.93 | 15 min | 1.03 | 15 min | 1.13 |
| SC-246.02 | 15 min | 2.83 | 15 min | 3.11 | 15 min | 3.40 |
| SC-247.01 | 15 min | 2.63 | 15 min | 2.97 | 15 min | 3.25 |
| SC-247.02 | 15 min | 7.49 | 15 min | 8.41 | 15 min | 9.21 |
| SC-248.01 | 15 min | 3.80 | 15 min | 4.21 | 15 min | 4.61 |
| SC-249.01 | 15 min | 0.98 | 15 min | 1.09 | 15 min | 1.20 |
| SC-249.02 | 15 min | 2.61 | 15 min | 2.91 | 15 min | 3.20 |
| SC-249.03 | 15 min | 5.15 | 15 min | 5.75 | 15 min | 6.33 |
| SC-249.04 | 15 min | 12.29 | 15 min | 13.58 | 15 min | 14.90 |
| SC-249.05 | 15 min | 36.78 | 15 min | 40.54 | 15 min | 44.48 |
| SC-249.06 | 15 min | 68.83 | 15 min | 76.06 | 15 min | 83.46 |
| SC-25.01 | 15 min | 6.05 | 15 min | 6.78 | 15 min | 7.43 |
| SC-25.02 | 15 min | 9.06 | 15 min | 10.11 | 15 min | 11.08 |
| SC-25.03 | 15 min | 10.01 | 15 min | 11.16 | 15 min | 12.24 |
| SC-25.04 | 15 min | 16.99 | 15 min | 18.74 | 15 min | 20.55 |
| SC-250.01 | 15 min | 0.62 | 15 min | 0.68 | 15 min | 0.74 |
| SC-251.01 | 15 min | 1.46 | 15 min | 1.61 | 15 min | 1.77 |
| SC-252.01 | 15 min | 1.73 | 15 min | 1.93 | 15 min | 2.13 |
| SC-252.02 | 15 min | 3.15 | 15 min | 3.53 | 15 min | 3.88 |
| SC-253.01 | 15 min | 2.41 | 15 min | 2.68 | 15 min | 2.94 |
| SC-253.02 | 15 min | 9.06 | 15 min | 10.10 | 15 min | 11.08 |
| SC-253.03 | 15 min | 11.14 | 15 min | 12.44 | 15 min | 13.64 |
| SC-254.01 | 15 min | 2.48 | 15 min | 2.75 | 15 min | 3.02 |
| SC-255.01 | 15 min | 2.47 | 15 min | 2.77 | 15 min | 3.05 |
| SC-256.01 | 15 min | 2.09 | 15 min | 2.37 | 15 min | 2.60 |
| SC-257.01 | 15 min | 1.18 | 15 min | 1.33 | 15 min | 1.46 |
| SC-258.01 | 15 min | 5.48 | 15 min | 6.16 | 15 min | 6.74 |
| SC-258.02 | 15 min | 10.20 | 15 min | 11.52 | 15 min | 12.65 |
| SC-259.01 | 15 min | 2.37 | 15 min | 2.61 | 15 min | 2.85 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-259.02 | 15 min | 4.93 | 15 min | 5.47 | 15 min | 5.99 |
| SC-259.03 | 15 min | 7.04 | 15 min | 7.81 | 15 min | 8.55 |
| SC-259.04 | 15 min | 12.73 | 15 min | 14.02 | 15 min | 15.35 |
| SC-259.05 | 15 min | 15.69 | 15 min | 17.35 | 15 min | 19.01 |
| SC-259.06 | 15 min | 20.33 | 15 min | 22.50 | 15 min | 24.66 |
| SC-259.07 | 15 min | 27.07 | 15 min | 29.88 | 15 min | 32.72 |
| SC-259.08 | 15 min | 31.12 | 15 min | 34.78 | 15 min | 38.08 |
| SC-259.09 | 15 min | 89.39 | 15 min | 99.00 | 15 min | 108.49 |
| SC-259.10 | 15 min | 91.28 | 15 min | 101.27 | 15 min | 110.96 |
| SC-26.01 | 15 min | 1.91 | 15 min | 2.13 | 15 min | 2.34 |
| SC-260.01 | 15 min | 1.48 | 15 min | 1.65 | 15 min | 1.81 |
| SC-261.01 | 15 min | 2.00 | 15 min | 2.19 | 15 min | 2.39 |
| SC-262.01 | 15 min | 2.15 | 15 min | 2.40 | 15 min | 2.64 |
| SC-262.02 | 15 min | 4.03 | 15 min | 4.47 | 15 min | 4.91 |
| SC-263.01 | 15 min | 2.30 | 15 min | 2.57 | 15 min | 2.82 |
| SC-264.01 | 15 min | 1.25 | 15 min | 1.40 | 15 min | 1.54 |
| SC-265.01 | 15 min | 1.68 | 15 min | 1.88 | 15 min | 2.06 |
| SC-265.02 | 15 min | 5.18 | 15 min | 5.67 | 15 min | 6.25 |
| SC-265.03 | 15 min | 9.45 | 15 min | 10.56 | 15 min | 11.60 |
| SC-265.04 | 15 min | 42.58 | 15 min | 47.52 | 15 min | 52.13 |
| SC-266.01 | 15 min | 2.39 | 15 min | 2.68 | 15 min | 2.95 |
| SC-266.02 | 15 min | 4.54 | 15 min | 5.05 | 15 min | 5.56 |
| SC-266.03 | 15 min | 5.33 | 15 min | 5.93 | 15 min | 6.53 |
| SC-266.04 | 15 min | 21.92 | 15 min | 24.36 | 15 min | 26.79 |
| SC-266.05 | 15 min | 26.05 | 15 min | 29.22 | 15 min | 32.10 |
| SC-267.01 | 15 min | 2.04 | 15 min | 2.30 | 15 min | 2.52 |
| SC-268.01 | 15 min | 3.47 | 15 min | 3.87 | 15 min | 4.25 |
| SC-268.02 | 15 min | 9.80 | 15 min | 10.97 | 15 min | 12.08 |
| SC-269.01 | 15 min | 1.85 | 15 min | 2.09 | 15 min | 2.31 |
| SC-27.01 | 15 min | 2.23 | 15 min | 2.52 | 15 min | 2.77 |
| SC-270.01 | 15 min | 2.14 | 15 min | 2.41 | 15 min | 2.66 |
| SC-271.01 | 15 min | 1.31 | 15 min | 1.48 | 15 min | 1.63 |
| SC-272.01 | 15 min | 3.13 | 15 min | 3.47 | 15 min | 3.84 |
| SC-272.02 | 15 min | 6.23 | 15 min | 6.87 | 15 min | 7.56 |
| SC-272.03 | 15 min | 10.11 | 15 min | 11.12 | 15 min | 12.20 |
| SC-273.01 | 15 min | 2.81 | 15 min | 3.15 | 15 min | 3.45 |
| SC-274.01 | 30 min | 1.63 | 30 min | 1.82 | 30 min | 2.00 |
| SC-274.02 | 15 min | 5.21 | 15 min | 5.87 | 15 min | 6.45 |
| SC-274.03 | 15 min | 12.26 | 15 min | 13.68 | 15 min | 15.01 |
| SC-274.04 | 15 min | 15.97 | 15 min | 17.78 | 15 min | 19.50 |
| SC-274.05 | 15 min | 21.30 | 15 min | 23.62 | 15 min | 25.87 |
| SC-275.01 | 15 min | 2.23 | 15 min | 2.48 | 15 min | 2.72 |
| SC-276.01 | 15 min | 1.60 | 15 min | 1.80 | 15 min | 1.97 |
| SC-277.01 | 15 min | 2.16 | 15 min | 2.42 | 15 min | 2.65 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-278.01 | 15 min | 1.24 | 15 min | 1.39 | 15 min | 1.52 |
| SC-278.02 | 15 min | 20.10 | 15 min | 22.35 | 15 min | 24.46 |
| SC-279.01 | 15 min | 2.61 | 15 min | 2.95 | 15 min | 3.24 |
| SC-279.02 | 15 min | 18.79 | 15 min | 20.72 | 15 min | 22.77 |
| SC-28.01 | 15 min | 2.35 | 15 min | 2.58 | 15 min | 2.85 |
| SC-28.02 | 15 min | 4.81 | 15 min | 5.27 | 15 min | 5.79 |
| SC-28.03 | 15 min | 6.57 | 15 min | 7.14 | 15 min | 7.86 |
| SC-28.04 | 15 min | 12.87 | 15 min | 14.05 | 15 min | 15.43 |
| SC-280.01 | 15 min | 2.29 | 15 min | 2.59 | 15 min | 2.84 |
| SC-29.01 | 15 min | 1.87 | 15 min | 2.08 | 15 min | 2.29 |
| SC-29.02 | 15 min | 5.43 | 15 min | 6.05 | 15 min | 6.63 |
| SC-3.01 | 15 min | 2.39 | 15 min | 2.70 | 15 min | 2.97 |
| SC-3.02 | 15 min | 8.02 | 15 min | 8.74 | 15 min | 9.63 |
| SC-30.01 | 15 min | 3.30 | 15 min | 3.70 | 15 min | 4.06 |
| SC-30.02 | 15 min | 6.39 | 15 min | 7.13 | 15 min | 7.82 |
| SC-30.03 | 15 min | 8.90 | 15 min | 9.85 | 15 min | 10.80 |
| SC-30.04 | 15 min | 11.31 | 15 min | 12.55 | 15 min | 13.76 |
| SC-31.01 | 15 min | 2.51 | 15 min | 2.83 | 15 min | 3.10 |
| SC-31.02 | 15 min | 5.23 | 15 min | 5.95 | 15 min | 6.54 |
| SC-32.01 | 15 min | 2.72 | 15 min | 3.03 | 15 min | 3.33 |
| SC-32.02 | 15 min | 3.96 | 15 min | 4.41 | 15 min | 4.84 |
| SC-33.01 | 15 min | 2.79 | 15 min | 3.13 | 15 min | 3.42 |
| SC-33.02 | 15 min | 6.70 | 15 min | 7.52 | 15 min | 8.24 |
| SC-34.01 | 15 min | 2.36 | 15 min | 2.65 | 15 min | 2.91 |
| SC-34.02 | 15 min | 4.89 | 15 min | 5.52 | 15 min | 6.05 |
| SC-34.03 | 15 min | 5.84 | 15 min | 6.61 | 15 min | 7.24 |
| SC-35.01 | 15 min | 1.93 | 15 min | 2.17 | 15 min | 2.38 |
| SC-35.02 | 15 min | 5.65 | 15 min | 6.26 | 15 min | 6.85 |
| SC-35.03 | 15 min | 9.03 | 15 min | 9.86 | 15 min | 10.78 |
| SC-35.04 | 15 min | 9.72 | 15 min | 10.64 | 15 min | 11.64 |
| SC-36.01 | 15 min | 4.28 | 15 min | 4.81 | 15 min | 5.28 |
| SC-36.02 | 15 min | 7.72 | 15 min | 8.52 | 15 min | 9.34 |
| SC-37.01 | 15 min | 1.66 | 15 min | 1.86 | 15 min | 2.04 |
| SC-37.02 | 15 min | 4.84 | 15 min | 5.41 | 15 min | 5.94 |
| SC-38.01 | 15 min | 1.98 | 15 min | 2.21 | 15 min | 2.42 |
| SC-39.01 | 15 min | 1.12 | 15 min | 1.26 | 15 min | 1.38 |
| SC-4.01 | 15 min | 2.93 | 15 min | 3.29 | 15 min | 3.64 |
| SC-40.01 | 15 min | 2.52 | 15 min | 2.83 | 15 min | 3.10 |
| SC-41.01 | 15 min | 1.62 | 15 min | 1.83 | 15 min | 2.00 |
| SC-42.01 | 15 min | 5.59 | 15 min | 6.26 | 15 min | 6.85 |
| SC-43.01 | 15 min | 1.17 | 15 min | 1.33 | 15 min | 1.46 |
| SC-44.01 | 15 min | 3.49 | 15 min | 3.91 | 15 min | 4.29 |
| SC-44.02 | 15 min | 5.85 | 15 min | 6.53 | 15 min | 7.16 |
| SC-44.03 | 15 min | 8.08 | 15 min | 8.93 | 15 min | 9.78 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-44.04 | 15 min | 12.49 | 15 min | 13.89 | 15 min | 15.24 |
| SC-44.05 | 15 min | 22.52 | 15 min | 25.03 | 15 min | 27.44 |
| SC-44.06 | 15 min | 24.66 | 15 min | 27.39 | 15 min | 30.05 |
| SC-44.07 | 15 min | 29.38 | 15 min | 32.96 | 15 min | 36.12 |
| SC-44.08 | 15 min | 37.41 | 15 min | 41.68 | 15 min | 45.61 |
| SC-44.09 | 15 min | 41.40 | 15 min | 46.18 | 15 min | 50.57 |
| SC-44.10 | 30 min | 37.13 | 30 min | 42.65 | 30 min | 48.22 |
| SC-44.11 | 30 min | 95.92 | 30 min | 108.40 | 30 min | 121.80 |
| SC-44.12 | 45 min | 78.96 | 45 min | 90.42 | 45 min | 102.50 |
| SC-44.13 | 45 min | 78.36 | 45 min | 90.04 | 45 min | 102.30 |
| SC-44.14 | 1.50 hour | 87.86 | 1.50 hour | 98.17 | 1.50 hour | 109.70 |
| SC-44.15 | 1.50 hour | 98.43 | 1.50 hour | 109.90 | 1.50 hour | 122.50 |
| SC-44.16 | 1.50 hour | 98.88 | 1.50 hour | 110.40 | 1.50 hour | 123.10 |
| SC-44.17 | 1.50 hour | 110.60 | 1.50 hour | 123.90 | 1.50 hour | 138.10 |
| SC-44.18 | 1.50 hour | 111.84 | 1.50 hour | 125.36 | 1.50 hour | 139.69 |
| SC-44.19 | 1.50 hour | 114.23 | 1.50 hour | 128.09 | 1.50 hour | 142.86 |
| SC-44.20 | 1.50 hour | 98.45 | 1.50 hour | 111.50 | 1.50 hour | 125.90 |
| SC-45.01 | 15 min | 2.75 | 15 min | 3.11 | 15 min | 3.41 |
| SC-46.01 | 15 min | 2.13 | 15 min | 2.40 | 15 min | 2.63 |
| SC-46.02 | 15 min | 3.84 | 15 min | 4.30 | 15 min | 4.72 |
| SC-46.03 | 15 min | 5.75 | 15 min | 6.38 | 15 min | 7.00 |
| SC-46.04 | 15 min | 6.52 | 15 min | 7.26 | 15 min | 7.95 |
| SC-47.01 | 15 min | 3.43 | 15 min | 3.83 | 15 min | 4.21 |
| SC-48.01 | 15 min | 2.58 | 15 min | 2.90 | 15 min | 3.18 |
| SC-48.02 | 15 min | 4.34 | 15 min | 4.83 | 15 min | 5.29 |
| SC-49.01 | 15 min | 2.94 | 15 min | 3.27 | 15 min | 3.58 |
| SC-5.01 | 15 min | 1.95 | 15 min | 2.21 | 15 min | 2.42 |
| SC-50.01 | 15 min | 1.15 | 15 min | 1.30 | 15 min | 1.43 |
| SC-51.01 | 15 min | 1.07 | 15 min | 1.19 | 15 min | 1.30 |
| SC-52.01 | 15 min | 1.07 | 15 min | 1.19 | 15 min | 1.30 |
| SC-53.01 | 15 min | 2.51 | 15 min | 2.82 | 15 min | 3.09 |
| SC-53.02 | 15 min | 5.53 | 15 min | 6.18 | 15 min | 6.77 |
| SC-53.03 | 15 min | 6.72 | 15 min | 7.51 | 15 min | 8.23 |
| SC-54.01 | 15 min | 2.04 | 15 min | 2.29 | 15 min | 2.51 |
| SC-54.02 | 15 min | 4.23 | 15 min | 4.72 | 15 min | 5.18 |
| SC-55.01 | 15 min | 3.16 | 15 min | 3.54 | 15 min | 3.88 |
| SC-56.01 | 15 min | 1.62 | 15 min | 1.82 | 15 min | 2.00 |
| SC-57.01 | 15 min | 1.26 | 15 min | 1.42 | 15 min | 1.56 |
| SC-58.01 | 15 min | 2.06 | 15 min | 2.29 | 15 min | 2.51 |
| SC-59.01 | 15 min | 2.83 | 15 min | 3.17 | 15 min | 3.49 |
| SC-59.02 | 15 min | 5.65 | 15 min | 6.33 | 15 min | 6.94 |
| SC-59.03 | 15 min | 8.23 | 15 min | 9.12 | 15 min | 10.00 |
| SC-59.04 | 15 min | 10.57 | 15 min | 11.74 | 15 min | 12.88 |
| SC-59.05 | 15 min | 24.14 | 15 min | 26.87 | 15 min | 29.49 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-59.06 | 15 min | 28.64 | 15 min | 32.26 | 15 min | 35.40 |
| SC-59.07 | 15 min | 50.07 | 15 min | 56.16 | 15 min | 61.63 |
| SC-59.08 | 15 min | 54.23 | 15 min | 60.49 | 15 min | 66.55 |
| SC-59.09 | 15 min | 66.89 | 15 min | 74.82 | 15 min | 82.40 |
| SC-59.10 | 15 min | 67.28 | 15 min | 76.18 | 15 min | 84.43 |
| SC-6.01 | 15 min | 2.29 | 15 min | 2.56 | 15 min | 2.81 |
| SC-60.01 | 15 min | 2.28 | 15 min | 2.58 | 15 min | 2.83 |
| SC-60.02 | 15 min | 8.70 | 15 min | 9.73 | 15 min | 10.69 |
| SC-61.01 | 15 min | 4.43 | 15 min | 5.04 | 15 min | 5.53 |
| SC-62.01 | 15 min | 2.49 | 15 min | 2.77 | 15 min | 3.04 |
| SC-63.01 | 15 min | 1.64 | 15 min | 1.85 | 15 min | 2.02 |
| SC-64.01 | 15 min | 2.00 | 15 min | 2.23 | 15 min | 2.44 |
| SC-64.02 | 15 min | 6.99 | 15 min | 7.86 | 15 min | 8.63 |
| SC-64.03 | 15 min | 13.22 | 15 min | 14.74 | 15 min | 16.19 |
| SC-64.04 | 15 min | 19.48 | 15 min | 21.64 | 15 min | 23.78 |
| SC-65.01 | 15 min | 1.46 | 15 min | 1.62 | 15 min | 1.78 |
| SC-66.01 | 15 min | 1.29 | 15 min | 1.45 | 15 min | 1.60 |
| SC-66.02 | 15 min | 3.45 | 15 min | 3.81 | 15 min | 4.19 |
| SC-67.01 | 15 min | 2.27 | 15 min | 2.54 | 15 min | 2.77 |
| SC-68.01 | 15 min | 3.18 | 15 min | 3.56 | 15 min | 3.90 |
| SC-68.02 | 15 min | 6.47 | 15 min | 7.22 | 15 min | 7.91 |
| SC-68.03 | 15 min | 11.32 | 15 min | 12.49 | 15 min | 13.69 |
| SC-69.01 | 15 min | 2.64 | 15 min | 2.96 | 15 min | 3.25 |
| SC-7.01 | 15 min | 3.75 | 15 min | 4.22 | 15 min | 4.64 |
| SC-70.01 | 15 min | 2.28 | 15 min | 2.53 | 15 min | 2.77 |
| SC-70.02 | 15 min | 3.79 | 15 min | 4.15 | 15 min | 4.56 |
| SC-71.01 | 15 min | 3.17 | 15 min | 3.56 | 15 min | 3.90 |
| SC-71.02 | 15 min | 6.29 | 15 min | 7.00 | 15 min | 7.67 |
| SC-72.01 | 15 min | 3.00 | 15 min | 3.36 | 15 min | 3.69 |
| SC-73.01 | 15 min | 2.62 | 15 min | 2.94 | 15 min | 3.23 |
| SC-74.01 | 15 min | 2.80 | 15 min | 3.14 | 15 min | 3.44 |
| SC-75.01 | 15 min | 2.18 | 15 min | 2.45 | 15 min | 2.69 |
| SC-75.02 | 15 min | 8.99 | 15 min | 10.03 | 15 min | 11.04 |
| SC-75.03 | 15 min | 12.93 | 15 min | 14.48 | 15 min | 15.88 |
| SC-75.04 | 15 min | 21.38 | 15 min | 23.95 | 15 min | 26.28 |
| SC-76.01 | 15 min | 3.13 | 15 min | 3.53 | 15 min | 3.87 |
| SC-77.01 | 15 min | 3.43 | 15 min | 3.86 | 15 min | 4.23 |
| SC-77.02 | 15 min | 5.32 | 15 min | 5.95 | 15 min | 6.51 |
| SC-77.03 | 15 min | 7.92 | 15 min | 8.84 | 15 min | 9.70 |
| SC-78.01 | 15 min | 3.12 | 15 min | 3.50 | 15 min | 3.84 |
| SC-79.01 | 15 min | 3.54 | 15 min | 3.89 | 15 min | 4.25 |
| SC-79.02 | 15 min | 6.55 | 15 min | 7.18 | 15 min | 7.85 |
| SC-79.03 | 15 min | 14.84 | 15 min | 16.25 | 15 min | 17.80 |
| SC-8.01 | 15 min | 2.88 | 15 min | 3.25 | 15 min | 3.57 |

## Climate Change Sensitivity Results for PMF

| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-8.02 | 15 min | 7.54 | 15 min | 8.51 | 15 min | 9.35 |
| SC-8.03 | 15 min | 20.29 | 15 min | 22.70 | 15 min | 24.90 |
| SC-8.04 | 15 min | 35.11 | 15 min | 39.14 | 15 min | 42.91 |
| SC-8.05 | 15 min | 39.18 | 15 min | 43.53 | 15 min | 47.72 |
| SC-8.06 | 15 min | 41.34 | 15 min | 46.05 | 15 min | 50.49 |
| SC-80.01 | 15 min | 3.27 | 15 min | 3.67 | 15 min | 4.02 |
| SC-80.02 | 15 min | 6.95 | 15 min | 7.77 | 15 min | 8.52 |
| SC-81.01 | 15 min | 3.01 | 15 min | 3.39 | 15 min | 3.71 |
| SC-81.02 | 15 min | 8.77 | 15 min | 9.85 | 15 min | 10.81 |
| SC-82.01 | 15 min | 3.32 | 15 min | 3.74 | 15 min | 4.09 |
| SC-83.01 | 15 min | 1.85 | 15 min | 2.09 | 15 min | 2.29 |
| SC-84.01 | 15 min | 3.21 | 15 min | 3.61 | 15 min | 3.96 |
| SC-84.02 | 15 min | 7.97 | 15 min | 8.95 | 15 min | 9.80 |
| SC-84.03 | 15 min | 10.57 | 15 min | 11.88 | 15 min | 13.05 |
| SC-84.04 | 15 min | 12.50 | 15 min | 14.15 | 15 min | 15.53 |
| SC-84.05 | 15 min | 15.37 | 15 min | 17.44 | 15 min | 19.13 |
| SC-84.06 | 15 min | 17.53 | 15 min | 19.87 | 15 min | 21.79 |
| SC-85.01 | 15 min | 1.97 | 15 min | 2.18 | 15 min | 2.39 |
| SC-86.01 | 15 min | 2.58 | 15 min | 2.89 | 15 min | 3.17 |
| SC-86.02 | 15 min | 5.21 | 15 min | 5.79 | 15 min | 6.36 |
| SC-87.01 | 15 min | 4.26 | 15 min | 4.77 | 15 min | 5.23 |
| SC-87.02 | 15 min | 7.54 | 15 min | 8.41 | 15 min | 9.23 |
| SC-88.01 | 15 min | 1.95 | 15 min | 2.19 | 15 min | 2.41 |
| SC-88.02 | 15 min | 3.48 | 15 min | 3.87 | 15 min | 4.25 |
| SC-89.01 | 15 min | 2.11 | 15 min | 2.35 | 15 min | 2.58 |
| SC-89.02 | 15 min | 2.49 | 15 min | 2.76 | 15 min | 3.02 |
| SC-9.01 | 15 min | 2.73 | 15 min | 3.07 | 15 min | 3.36 |
| SC-90.01 | 15 min | 0.83 | 15 min | 0.92 | 15 min | 1.01 |
| SC-91.01 | 15 min | 2.38 | 15 min | 2.68 | 15 min | 2.94 |
| SC-91.02 | 15 min | 5.21 | 15 min | 5.88 | 15 min | 6.44 |
| SC-92.01 | 15 min | 2.45 | 15 min | 2.78 | 15 min | 3.05 |
| SC-92.02 | 15 min | 7.12 | 15 min | 7.96 | 15 min | 8.75 |
| SC-93.01 | 15 min | 2.75 | 15 min | 3.09 | 15 min | 3.39 |
| SC-94.01 | 15 min | 2.90 | 15 min | 3.24 | 15 min | 3.56 |
| SC-94.02 | 15 min | 7.12 | 15 min | 8.10 | 15 min | 8.88 |
| SC-95.01 | 15 min | 1.49 | 15 min | 1.68 | 15 min | 1.84 |
| SC-95.02 | 15 min | 3.76 | 15 min | 4.19 | 15 min | 4.59 |
| SC-96.01 | 15 min | 1.69 | 15 min | 1.89 | 15 min | 2.07 |
| SC-97.01 | 15 min | 1.26 | 15 min | 1.42 | 15 min | 1.56 |
| SC-97.02 | 15 min | 7.95 | 15 min | 8.74 | 15 min | 9.57 |
| SC-98.01 | 15 min | 2.32 | 15 min | 2.60 | 15 min | 2.85 |
| SC-99.01 | 15 min | 1.98 | 15 min | 2.20 | 15 min | 2.41 |
| SC-99.02 | 15 min | 5.82 | 15 min | 6.49 | 15 min | 7.11 |
| SC-99.03 | 15 min | 10.10 | 15 min | 11.26 | 15 min | 12.35 |



Catchment Simulation Solutions

| Climate Change Sensitivity Results for PMF | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base PMP Results | | Climate Change Sensitivity Results | | | |
| | | | 9.5% increase in Rainfall | | 19.7% increase in Rainfall | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-99.04 | 15 min | 27.37 | 15 min | 30.19 | 15 min | 33.12 |
| Dummy1 | 15 min | 142.90 | 15 min | 160.44 | 15 min | 175.67 |
| Dummy2 | 30 min | 246.18 | 30 min | 282.09 | 30 min | 308.80 |
| Dummy3 | 45 min | 520.92 | 45 min | 580.27 | 45 min | 638.86 |
| DummyOut | 1.50 hour | 647.48 | 1.50 hour | 712.61 | 1.50 hour | 782.55 |



Catchment Simulation Solutions

# Appendix H

## XP-RAFTS Model Outputs for Sensitivity Simulations

# Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 10 min | 0.93 | 10 min | 0.93 | 10 min | 0.87 |
| SC-1.02 | 10 min | 2.00 | 10 min | 2.04 | 10 min | 1.87 |
| SC-1.03 | 10 min | 2.38 | 10 min | 2.38 | 10 min | 2.28 |
| SC-1.04 | 10 min | 6.27 | 10 min | 6.33 | 10 min | 6.06 |
| SC-1.05 | 10 min | 6.82 | 10 min | 6.89 | 10 min | 6.61 |
| SC-1.06 | 10 min | 7.79 | 10 min | 7.88 | 10 min | 7.56 |
| SC-1.07 | 10 min | 7.91 | 10 min | 8.07 | 10 min | 7.75 |
| SC-1.08 | 45 min | 8.71 | 45 min | 8.79 | 45 min | 8.52 |
| SC-1.09 | 45 min | 9.35 | 45 min | 9.42 | 45 min | 9.20 |
| SC-1.10 | 45 min | 9.36 | 45 min | 9.43 | 45 min | 9.21 |
| SC-1.11 | 10 min | 13.59 | 10 min | 13.73 | 10 min | 13.15 |
| SC-1.12 | 10 min | 16.99 | 10 min | 17.19 | 10 min | 16.49 |
| SC-1.13 | 10 min | 19.43 | 10 min | 19.69 | 10 min | 18.86 |
| SC-1.14 | 10 min | 23.13 | 10 min | 23.47 | 10 min | 22.46 |
| SC-1.15 | 10 min | 25.02 | 10 min | 25.39 | 10 min | 24.27 |
| SC-1.16 | 15 min | 28.64 | 15 min | 29.01 | 15 min | 28.01 |
| SC-1.17 | 15 min | 28.95 | 15 min | 29.35 | 15 min | 28.51 |
| SC-1.18 | 30 min | 18.10 | 30 min | 18.26 | 30 min | 17.80 |
| SC-1.19 | 1 hour | 22.75 | 1 hour | 22.92 | 1 hour | 22.30 |
| SC-1.20 | 1 hour | 20.73 | 1 hour | 20.89 | 1 hour | 20.40 |
| SC-1.21 | 1 hour | 20.74 | 1 hour | 20.90 | 1 hour | 20.41 |
| SC-1.22 | 1.50 hour | 20.92 | 1.50 hour | 21.05 | 1.50 hour | 20.67 |
| SC-1.23 | 1.50 hour | 23.45 | 1.50 hour | 23.61 | 1.50 hour | 23.17 |
| SC-1.24 | 20 min | 31.77 | 20 min | 31.92 | 20 min | 31.44 |
| SC-1.25 | 25 min | 32.54 | 25 min | 32.77 | 25 min | 32.08 |
| SC-1.26 | 25 min | 35.37 | 25 min | 35.67 | 25 min | 34.65 |
| SC-1.27 | 25 min | 35.95 | 25 min | 36.30 | 25 min | 35.30 |
| SC-1.28 | 15 min | 47.23 | 15 min | 47.78 | 20 min | 46.96 |
| SC-1.29 | 25 min | 49.56 | 25 min | 50.16 | 25 min | 48.95 |
| SC-1.30 | 25 min | 50.66 | 25 min | 51.22 | 25 min | 49.63 |
| SC-1.31 | 25 min | 51.58 | 25 min | 52.16 | 25 min | 50.36 |
| SC-1.32 | 25 min | 52.64 | 25 min | 53.22 | 25 min | 51.87 |
| SC-1.33 | 30 min | 54.45 | 30 min | 54.91 | 30 min | 53.75 |
| SC-1.34 | 30 min | 54.52 | 30 min | 54.97 | 30 min | 53.82 |
| SC-1.35 | 30 min | 54.65 | 30 min | 55.22 | 30 min | 53.94 |
| SC-1.36 | 30 min | 57.49 | 30 min | 58.07 | 30 min | 56.34 |
| SC-10.01 | 10 min | 0.97 | 10 min | 0.97 | 10 min | 0.89 |
| SC-100.01 | 10 min | 1.14 | 10 min | 1.14 | 10 min | 1.03 |
| SC-100.02 | 10 min | 1.95 | 10 min | 1.96 | 10 min | 1.84 |
| SC-101.01 | 10 min | 1.18 | 10 min | 1.19 | 10 min | 1.09 |
| SC-101.02 | 10 min | 2.05 | 10 min | 2.07 | 10 min | 1.98 |
| SC-102.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.86 |
| SC-102.02 | 10 min | 3.50 | 10 min | 3.54 | 10 min | 3.47 |
| SC-103.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.59 |



Catchment Simulation Solutions

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-103.02 | 10 min | 2.17 | 10 min | 2.20 | 10 min | 2.11 |
| SC-104.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.53 |
| SC-105.01 | 10 min | 0.60 | 10 min | 0.60 | 10 min | 0.56 |
| SC-105.02 | 10 min | 1.41 | 10 min | 1.43 | 10 min | 1.38 |
| SC-105.03 | 10 min | 3.29 | 10 min | 3.34 | 10 min | 3.23 |
| SC-105.04 | 10 min | 4.44 | 10 min | 4.44 | 10 min | 4.31 |
| SC-105.05 | 10 min | 5.26 | 10 min | 5.35 | 10 min | 5.17 |
| SC-105.06 | 10 min | 5.54 | 10 min | 5.67 | 10 min | 5.42 |
| SC-105.07 | 15 min | 8.11 | 10 min | 8.38 | 15 min | 7.93 |
| SC-105.08 | 15 min | 9.32 | 15 min | 9.52 | 15 min | 9.05 |
| SC-105.09 | 10 min | 12.28 | 10 min | 12.48 | 10 min | 12.11 |
| SC-106.01 | 10 min | 0.44 | 10 min | 0.44 | 10 min | 0.41 |
| SC-107.01 | 10 min | 0.76 | 10 min | 0.77 | 10 min | 0.72 |
| SC-108.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.51 |
| SC-109.01 | 10 min | 0.73 | 10 min | 0.73 | 10 min | 0.67 |
| SC-11.01 | 10 min | 0.59 | 10 min | 0.60 | 10 min | 0.56 |
| SC-110.01 | 10 min | 0.67 | 10 min | 0.67 | 10 min | 0.62 |
| SC-110.02 | 10 min | 1.50 | 10 min | 1.52 | 10 min | 1.47 |
| SC-110.03 | 10 min | 1.64 | 10 min | 1.65 | 10 min | 1.59 |
| SC-111.01 | 20 min | 0.45 | 15 min | 0.45 | 20 min | 0.44 |
| SC-112.01 | 10 min | 1.13 | 10 min | 1.13 | 10 min | 1.05 |
| SC-113.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.38 |
| SC-113.02 | 10 min | 1.30 | 10 min | 1.32 | 10 min | 1.27 |
| SC-114.01 | 10 min | 0.71 | 10 min | 0.72 | 10 min | 0.66 |
| SC-114.02 | 10 min | 1.14 | 10 min | 1.14 | 10 min | 1.08 |
| SC-114.03 | 10 min | 2.34 | 10 min | 2.37 | 10 min | 2.28 |
| SC-115.01 | 10 min | 0.65 | 10 min | 0.65 | 10 min | 0.60 |
| SC-115.02 | 10 min | 1.04 | 10 min | 1.05 | 10 min | 0.99 |
| SC-116.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.60 |
| SC-116.02 | 10 min | 1.03 | 10 min | 1.03 | 10 min | 1.00 |
| SC-117.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.35 |
| SC-118.01 | 10 min | 0.83 | 10 min | 0.83 | 10 min | 0.76 |
| SC-119.01 | 10 min | 1.26 | 10 min | 1.26 | 10 min | 1.19 |
| SC-119.02 | 10 min | 3.14 | 10 min | 3.15 | 10 min | 2.98 |
| SC-12.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.63 |
| SC-12.02 | 10 min | 1.20 | 10 min | 1.20 | 10 min | 1.10 |
| SC-12.03 | 10 min | 2.19 | 10 min | 2.19 | 10 min | 2.12 |
| SC-12.04 | 10 min | 2.79 | 10 min | 2.80 | 10 min | 2.69 |
| SC-120.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.52 |
| SC-121.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.65 |
| SC-122.01 | 10 min | 1.16 | 10 min | 1.16 | 10 min | 1.03 |
| SC-122.02 | 10 min | 1.79 | 10 min | 1.81 | 10 min | 1.73 |
| SC-122.03 | 10 min | 2.41 | 10 min | 2.44 | 10 min | 2.36 |
| SC-123.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.55 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-123.02 | 10 min | 1.62 | 10 min | 1.64 | 10 min | 1.61 |
| SC-123.03 | 10 min | 10.91 | 10 min | 11.00 | 10 min | 10.63 |
| SC-123.04 | 10 min | 11.19 | 10 min | 11.21 | 10 min | 10.86 |
| SC-123.05 | 10 min | 14.12 | 10 min | 14.36 | 10 min | 13.64 |
| SC-123.06 | 10 min | 14.54 | 10 min | 14.66 | 10 min | 13.97 |
| SC-123.07 | 10 min | 15.60 | 10 min | 15.73 | 10 min | 15.00 |
| SC-124.01 | 20 min | 0.70 | 20 min | 0.72 | 20 min | 0.69 |
| SC-124.02 | 20 min | 4.51 | 20 min | 4.56 | 20 min | 4.47 |
| SC-125.01 | 20 min | 0.97 | 20 min | 0.98 | 20 min | 0.96 |
| SC-126.01 | 10 min | 0.54 | 10 min | 0.54 | 10 min | 0.50 |
| SC-126.02 | 20 min | 1.30 | 20 min | 1.32 | 20 min | 1.27 |
| SC-126.03 | 20 min | 2.40 | 20 min | 2.41 | 20 min | 2.38 |
| SC-127.01 | 10 min | 1.28 | 10 min | 1.28 | 10 min | 1.15 |
| SC-127.02 | 10 min | 3.43 | 10 min | 3.43 | 10 min | 3.21 |
| SC-128.01 | 10 min | 1.25 | 10 min | 1.25 | 10 min | 1.15 |
| SC-129.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.57 |
| SC-13.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.58 |
| SC-130.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.86 |
| SC-131.01 | 10 min | 0.37 | 10 min | 0.37 | 10 min | 0.34 |
| SC-132.01 | 10 min | 0.52 | 10 min | 0.52 | 10 min | 0.48 |
| SC-133.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.35 |
| SC-134.01 | 10 min | 0.32 | 10 min | 0.32 | 10 min | 0.30 |
| SC-134.02 | 10 min | 1.02 | 10 min | 1.04 | 10 min | 1.00 |
| SC-134.03 | 10 min | 2.07 | 10 min | 2.12 | 10 min | 2.03 |
| SC-134.04 | 10 min | 2.93 | 10 min | 3.03 | 15 min | 2.61 |
| SC-135.01 | 10 min | 0.25 | 10 min | 0.25 | 10 min | 0.24 |
| SC-135.02 | 10 min | 1.39 | 10 min | 1.41 | 10 min | 1.38 |
| SC-135.03 | 10 min | 1.83 | 10 min | 1.85 | 10 min | 1.81 |
| SC-135.04 | 10 min | 4.06 | 10 min | 4.10 | 10 min | 3.98 |
| SC-135.05 | 10 min | 4.60 | 10 min | 4.65 | 10 min | 4.52 |
| SC-135.06 | 10 min | 7.50 | 10 min | 7.60 | 10 min | 7.27 |
| SC-136.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.70 |
| SC-137.01 | 10 min | 0.77 | 10 min | 0.77 | 10 min | 0.73 |
| SC-138.01 | 10 min | 0.92 | 10 min | 0.92 | 10 min | 0.91 |
| SC-139.01 | 10 min | 0.90 | 10 min | 0.90 | 10 min | 0.84 |
| SC-139.02 | 10 min | 1.09 | 10 min | 1.10 | 10 min | 1.04 |
| SC-14.01 | 10 min | 1.11 | 10 min | 1.11 | 10 min | 1.02 |
| SC-14.02 | 10 min | 1.69 | 10 min | 1.70 | 10 min | 1.64 |
| SC-14.03 | 10 min | 2.21 | 10 min | 2.22 | 10 min | 2.16 |
| SC-140.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.60 |
| SC-141.01 | 10 min | 1.04 | 10 min | 1.05 | 10 min | 1.02 |
| SC-142.01 | 20 min | 1.55 | 20 min | 1.56 | 20 min | 1.54 |
| SC-143.01 | 20 min | 0.61 | 20 min | 0.62 | 20 min | 0.59 |
| SC-143.02 | 10 min | 4.94 | 10 min | 5.04 | 10 min | 4.83 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-144.01 | 10 min | 0.73 | 10 min | 0.73 | 10 min | 0.71 |
| SC-144.02 | 10 min | 1.04 | 10 min | 1.05 | 10 min | 1.02 |
| SC-144.03 | 10 min | 1.38 | 10 min | 1.40 | 10 min | 1.32 |
| SC-144.04 | 10 min | 2.44 | 10 min | 2.48 | 10 min | 2.40 |
| SC-144.05 | 10 min | 4.60 | 10 min | 4.65 | 10 min | 4.43 |
| SC-145.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.92 |
| SC-145.02 | 10 min | 1.74 | 10 min | 1.75 | 10 min | 1.68 |
| SC-146.01 | 15 min | 1.75 | 15 min | 1.79 | 20 min | 1.71 |
| SC-147.01 | 10 min | 0.92 | 10 min | 0.94 | 10 min | 0.88 |
| SC-147.02 | 10 min | 1.25 | 10 min | 1.29 | 15 min | 1.14 |
| SC-147.03 | 10 min | 3.19 | 10 min | 3.24 | 10 min | 3.12 |
| SC-148.01 | 10 min | 0.78 | 10 min | 0.78 | 10 min | 0.72 |
| SC-148.02 | 10 min | 1.67 | 10 min | 1.68 | 10 min | 1.65 |
| SC-149.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.54 |
| SC-149.02 | 10 min | 1.83 | 10 min | 1.84 | 10 min | 1.80 |
| SC-15.01 | 10 min | 1.13 | 10 min | 1.13 | 10 min | 1.06 |
| SC-15.02 | 10 min | 1.48 | 10 min | 1.48 | 10 min | 1.40 |
| SC-15.03 | 10 min | 2.33 | 10 min | 2.34 | 10 min | 2.27 |
| SC-150.01 | 10 min | 0.68 | 10 min | 0.68 | 10 min | 0.62 |
| SC-150.02 | 10 min | 1.31 | 10 min | 1.32 | 10 min | 1.26 |
| SC-150.03 | 10 min | 3.32 | 10 min | 3.35 | 10 min | 3.28 |
| SC-150.04 | 10 min | 4.30 | 10 min | 4.33 | 10 min | 4.22 |
| SC-150.05 | 10 min | 5.94 | 10 min | 6.00 | 10 min | 5.89 |
| SC-150.06 | 10 min | 11.00 | 10 min | 11.06 | 10 min | 10.73 |
| SC-150.07 | 10 min | 17.06 | 10 min | 17.16 | 10 min | 16.81 |
| SC-150.08 | 2 hours | 9.68 | 2 hours | 9.68 | 2 hours | 9.66 |
| SC-150.09 | 2 hours | 10.19 | 2 hours | 10.20 | 2 hours | 10.18 |
| SC-150.10 | 2 hours | 12.14 | 2 hours | 12.22 | 2 hours | 12.11 |
| SC-150.11 | 10 min | 18.60 | 10 min | 18.76 | 10 min | 18.03 |
| SC-150.12 | 10 min | 29.36 | 10 min | 29.64 | 10 min | 28.43 |
| SC-150.13 | 15 min | 33.27 | 15 min | 33.61 | 15 min | 32.33 |
| SC-150.14 | 15 min | 49.84 | 15 min | 50.56 | 15 min | 49.08 |
| SC-150.15 | 15 min | 50.19 | 15 min | 50.91 | 15 min | 49.43 |
| SC-150.16 | 15 min | 52.64 | 15 min | 53.50 | 15 min | 51.23 |
| SC-150.17 | 15 min | 53.46 | 15 min | 54.29 | 15 min | 52.11 |
| SC-151.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.83 |
| SC-151.02 | 10 min | 1.38 | 10 min | 1.40 | 10 min | 1.33 |
| SC-152.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.76 |
| SC-153.01 | 10 min | 0.65 | 10 min | 0.65 | 10 min | 0.63 |
| SC-153.02 | 10 min | 1.52 | 10 min | 1.52 | 10 min | 1.52 |
| SC-154.01 | 10 min | 1.19 | 10 min | 1.20 | 10 min | 1.14 |
| SC-154.02 | 10 min | 3.98 | 10 min | 4.00 | 10 min | 3.97 |
| SC-155.01 | 10 min | 0.43 | 10 min | 0.44 | 10 min | 0.43 |
| SC-155.02 | 10 min | 1.25 | 10 min | 1.26 | 10 min | 1.21 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-156.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.47 |
| SC-157.01 | 10 min | 0.57 | 10 min | 0.58 | 10 min | 0.57 |
| SC-158.01 | 10 min | 0.77 | 10 min | 0.77 | 10 min | 0.71 |
| SC-158.02 | 10 min | 0.98 | 10 min | 0.99 | 10 min | 0.93 |
| SC-158.03 | 10 min | 2.13 | 10 min | 2.15 | 10 min | 2.10 |
| SC-158.04 | 10 min | 3.96 | 10 min | 3.98 | 10 min | 3.88 |
| SC-159.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.56 |
| SC-16.01 | 10 min | 0.73 | 10 min | 0.74 | 10 min | 0.67 |
| SC-160.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.55 |
| SC-160.02 | 10 min | 1.32 | 10 min | 1.33 | 10 min | 1.28 |
| SC-161.01 | 10 min | 0.72 | 10 min | 0.72 | 10 min | 0.66 |
| SC-161.02 | 10 min | 1.36 | 10 min | 1.37 | 10 min | 1.31 |
| SC-162.01 | 10 min | 0.84 | 10 min | 0.84 | 10 min | 0.83 |
| SC-163.01 | 10 min | 0.47 | 10 min | 0.49 | 10 min | 0.46 |
| SC-163.02 | 10 min | 0.90 | 10 min | 0.92 | 10 min | 0.88 |
| SC-163.03 | 10 min | 1.48 | 10 min | 1.50 | 10 min | 1.47 |
| SC-163.04 | 10 min | 2.11 | 10 min | 2.12 | 10 min | 2.08 |
| SC-163.05 | 10 min | 3.65 | 10 min | 3.66 | 10 min | 3.58 |
| SC-164.01 | 10 min | 0.72 | 10 min | 0.72 | 10 min | 0.72 |
| SC-165.01 | 10 min | 0.62 | 10 min | 0.63 | 10 min | 0.62 |
| SC-165.02 | 10 min | 1.60 | 10 min | 1.61 | 10 min | 1.59 |
| SC-165.03 | 10 min | 2.09 | 10 min | 2.09 | 10 min | 2.08 |
| SC-165.04 | 10 min | 4.46 | 10 min | 4.50 | 10 min | 4.43 |
| SC-165.05 | 10 min | 7.50 | 10 min | 7.57 | 10 min | 7.43 |
| SC-166.01 | 10 min | 0.56 | 10 min | 0.57 | 10 min | 0.57 |
| SC-167.01 | 10 min | 0.85 | 10 min | 0.85 | 10 min | 0.79 |
| SC-167.02 | 10 min | 2.15 | 10 min | 2.15 | 10 min | 2.05 |
| SC-168.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.65 |
| SC-169.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.63 |
| SC-169.02 | 10 min | 1.16 | 10 min | 1.17 | 10 min | 1.15 |
| SC-169.03 | 10 min | 2.62 | 10 min | 2.62 | 10 min | 2.57 |
| SC-17.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.59 |
| SC-17.02 | 10 min | 1.10 | 10 min | 1.10 | 10 min | 1.07 |
| SC-17.03 | 10 min | 1.84 | 10 min | 1.86 | 10 min | 1.80 |
| SC-17.04 | 10 min | 4.38 | 10 min | 4.43 | 10 min | 4.25 |
| SC-17.05 | 10 min | 6.01 | 10 min | 6.09 | 10 min | 5.87 |
| SC-17.06 | 10 min | 6.75 | 10 min | 6.84 | 10 min | 6.59 |
| SC-17.07 | 10 min | 7.26 | 10 min | 7.36 | 10 min | 7.09 |
| SC-170.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.54 |
| SC-171.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.37 |
| SC-172.01 | 10 min | 0.82 | 10 min | 0.82 | 10 min | 0.74 |
| SC-172.02 | 10 min | 1.38 | 10 min | 1.38 | 10 min | 1.33 |
| SC-173.01 | 20 min | 0.89 | 20 min | 0.92 | 25 min | 0.85 |
| SC-173.02 | 20 min | 1.79 | 20 min | 1.84 | 20 min | 1.74 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-173.03 | 20 min | 1.85 | 20 min | 1.88 | 20 min | 1.80 |
| SC-173.04 | 10 min | 3.07 | 10 min | 3.09 | 20 min | 2.97 |
| SC-173.05 | 10 min | 3.58 | 10 min | 3.60 | 10 min | 3.43 |
| SC-174.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.47 |
| SC-175.01 | 10 min | 0.92 | 10 min | 0.92 | 10 min | 0.84 |
| SC-175.02 | 10 min | 1.86 | 10 min | 1.87 | 10 min | 1.78 |
| SC-175.03 | 10 min | 2.99 | 10 min | 3.01 | 10 min | 2.91 |
| SC-175.04 | 10 min | 3.67 | 10 min | 3.70 | 10 min | 3.52 |
| SC-175.05 | 10 min | 4.12 | 10 min | 4.16 | 10 min | 3.99 |
| SC-176.01 | 10 min | 0.38 | 10 min | 0.38 | 20 min | 0.37 |
| SC-177.01 | 10 min | 0.51 | 10 min | 0.51 | 10 min | 0.48 |
| SC-177.02 | 10 min | 1.34 | 10 min | 1.36 | 10 min | 1.31 |
| SC-177.03 | 10 min | 3.68 | 10 min | 3.71 | 10 min | 3.63 |
| SC-177.04 | 10 min | 5.02 | 10 min | 5.08 | 10 min | 4.96 |
| SC-178.01 | 10 min | 1.12 | 10 min | 1.12 | 10 min | 1.04 |
| SC-178.02 | 10 min | 1.66 | 10 min | 1.68 | 10 min | 1.65 |
| SC-179.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.84 |
| SC-18.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.66 |
| SC-18.02 | 10 min | 1.11 | 10 min | 1.11 | 10 min | 1.06 |
| SC-180.01 | 10 min | 0.88 | 10 min | 0.88 | 10 min | 0.82 |
| SC-180.02 | 10 min | 1.49 | 10 min | 1.50 | 10 min | 1.44 |
| SC-180.03 | 10 min | 2.09 | 10 min | 2.12 | 10 min | 2.07 |
| SC-180.04 | 10 min | 3.02 | 10 min | 3.04 | 10 min | 2.96 |
| SC-181.01 | 20 min | 0.38 | 20 min | 0.38 | 20 min | 0.38 |
| SC-181.02 | 10 min | 1.25 | 10 min | 1.26 | 10 min | 1.22 |
| SC-181.03 | 10 min | 2.04 | 10 min | 2.07 | 10 min | 1.94 |
| SC-181.04 | 10 min | 3.79 | 10 min | 3.84 | 10 min | 3.60 |
| SC-181.05 | 10 min | 4.08 | 10 min | 4.14 | 10 min | 3.98 |
| SC-181.06 | 10 min | 4.55 | 10 min | 4.60 | 10 min | 4.41 |
| SC-181.07 | 10 min | 10.03 | 10 min | 10.13 | 10 min | 9.82 |
| SC-181.08 | 10 min | 10.40 | 10 min | 10.51 | 10 min | 10.19 |
| SC-182.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.58 |
| SC-182.02 | 10 min | 1.00 | 10 min | 1.01 | 10 min | 0.95 |
| SC-182.03 | 10 min | 1.56 | 10 min | 1.58 | 10 min | 1.53 |
| SC-183.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.54 |
| SC-183.02 | 10 min | 1.34 | 10 min | 1.36 | 10 min | 1.30 |
| SC-183.03 | 10 min | 3.32 | 10 min | 3.36 | 10 min | 3.22 |
| SC-183.04 | 10 min | 3.79 | 10 min | 3.83 | 10 min | 3.73 |
| SC-184.01 | 10 min | 1.43 | 10 min | 1.44 | 10 min | 1.36 |
| SC-185.01 | 10 min | 0.86 | 10 min | 0.86 | 10 min | 0.79 |
| SC-185.02 | 10 min | 1.89 | 10 min | 1.90 | 10 min | 1.83 |
| SC-186.01 | 10 min | 0.30 | 10 min | 0.30 | 10 min | 0.29 |
| SC-187.01 | 10 min | 0.87 | 10 min | 0.87 | 10 min | 0.80 |
| SC-187.02 | 10 min | 1.67 | 10 min | 1.68 | 10 min | 1.61 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-187.03 | 10 min | 1.97 | 10 min | 1.98 | 10 min | 1.88 |
| SC-187.04 | 10 min | 2.46 | 10 min | 2.47 | 10 min | 2.43 |
| SC-187.05 | 10 min | 2.93 | 10 min | 2.94 | 10 min | 2.81 |
| SC-188.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.84 |
| SC-188.02 | 10 min | 1.33 | 10 min | 1.34 | 10 min | 1.29 |
| SC-189.01 | 10 min | 1.03 | 10 min | 1.03 | 10 min | 0.94 |
| SC-189.02 | 10 min | 1.83 | 10 min | 1.83 | 10 min | 1.73 |
| SC-19.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-190.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.42 |
| SC-191.01 | 10 min | 0.83 | 10 min | 0.83 | 10 min | 0.76 |
| SC-191.02 | 10 min | 1.19 | 10 min | 1.19 | 10 min | 1.14 |
| SC-191.03 | 10 min | 2.18 | 10 min | 2.21 | 10 min | 2.15 |
| SC-191.04 | 10 min | 3.18 | 10 min | 3.22 | 10 min | 3.14 |
| SC-191.05 | 10 min | 4.45 | 10 min | 4.49 | 10 min | 4.37 |
| SC-191.06 | 10 min | 7.65 | 10 min | 7.70 | 10 min | 7.51 |
| SC-191.07 | 10 min | 9.11 | 10 min | 9.20 | 10 min | 8.93 |
| SC-191.08 | 10 min | 9.97 | 10 min | 10.10 | 10 min | 9.75 |
| SC-192.01 | 10 min | 2.59 | 10 min | 2.59 | 10 min | 2.57 |
| SC-193.01 | 10 min | 1.18 | 10 min | 1.18 | 10 min | 1.11 |
| SC-194.01 | 10 min | 1.18 | 10 min | 1.18 | 20 min | 1.13 |
| SC-194.02 | 20 min | 4.77 | 20 min | 4.92 | 20 min | 4.60 |
| SC-194.03 | 20 min | 4.95 | 20 min | 5.14 | 25 min | 4.98 |
| SC-195.01 | 20 min | 1.67 | 20 min | 1.72 | 20 min | 1.61 |
| SC-196.01 | 10 min | 3.86 | 10 min | 3.91 | 10 min | 3.64 |
| SC-197.01 | 10 min | 2.47 | 10 min | 2.53 | 20 min | 2.35 |
| SC-198.01 | 20 min | 2.40 | 15 min | 2.44 | 20 min | 2.37 |
| SC-2.01 | 10 min | 0.53 | 10 min | 0.55 | 15 min | 0.50 |
| SC-20.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.52 |
| SC-200.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.80 |
| SC-200.02 | 10 min | 1.41 | 10 min | 1.41 | 10 min | 1.39 |
| SC-200.03 | 10 min | 2.63 | 10 min | 2.66 | 10 min | 2.59 |
| SC-200.04 | 10 min | 3.84 | 10 min | 3.89 | 10 min | 3.67 |
| SC-200.05 | 10 min | 6.29 | 10 min | 6.38 | 10 min | 6.08 |
| SC-200.06 | 10 min | 9.51 | 10 min | 9.74 | 10 min | 9.23 |
| SC-200.07 | 10 min | 11.17 | 10 min | 11.46 | 15 min | 10.47 |
| SC-200.08 | 10 min | 12.58 | 10 min | 12.96 | 15 min | 12.26 |
| SC-200.09 | 15 min | 18.58 | 10 min | 19.29 | 15 min | 18.19 |
| SC-201.01 | 10 min | 1.02 | 10 min | 1.02 | 10 min | 0.94 |
| SC-202.01 | 10 min | 1.05 | 10 min | 1.05 | 10 min | 0.96 |
| SC-203.01 | 10 min | 1.04 | 10 min | 1.05 | 10 min | 0.96 |
| SC-204.01 | 10 min | 1.36 | 10 min | 1.38 | 10 min | 1.33 |
| SC-205.01 | 20 min | 0.55 | 20 min | 0.56 | 20 min | 0.55 |
| SC-206.01 | 10 min | 4.38 | 10 min | 4.54 | 15 min | 3.78 |
| SC-207.01 | 10 min | 0.98 | 10 min | 0.98 | 10 min | 0.97 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-207.02 | 10 min | 1.89 | 10 min | 1.91 | 10 min | 1.89 |
| SC-207.03 | 10 min | 2.11 | 10 min | 2.13 | 10 min | 2.08 |
| SC-207.04 | 10 min | 5.77 | 10 min | 5.82 | 10 min | 5.57 |
| SC-207.05 | 10 min | 7.61 | 10 min | 7.68 | 10 min | 7.55 |
| SC-207.06 | 10 min | 8.34 | 10 min | 8.42 | 10 min | 8.16 |
| SC-207.07 | 10 min | 13.97 | 10 min | 14.22 | 10 min | 13.61 |
| SC-207.08 | 10 min | 20.74 | 10 min | 21.08 | 10 min | 20.29 |
| SC-207.09 | 10 min | 23.77 | 10 min | 24.20 | 10 min | 23.08 |
| SC-207.10 | 15 min | 24.60 | 15 min | 25.00 | 15 min | 24.18 |
| SC-207.11 | 15 min | 26.60 | 15 min | 27.06 | 15 min | 26.07 |
| SC-207.12 | 15 min | 38.54 | 15 min | 39.08 | 15 min | 37.97 |
| SC-207.13 | 15 min | 40.73 | 15 min | 41.32 | 15 min | 40.05 |
| SC-207.14 | 15 min | 41.81 | 15 min | 42.47 | 15 min | 41.16 |
| SC-208.01 | 10 min | 1.08 | 10 min | 1.08 | 10 min | 0.96 |
| SC-208.02 | 10 min | 1.51 | 10 min | 1.51 | 10 min | 1.41 |
| SC-208.03 | 10 min | 2.00 | 10 min | 2.01 | 10 min | 1.90 |
| SC-208.04 | 10 min | 3.12 | 10 min | 3.14 | 10 min | 3.05 |
| SC-208.05 | 10 min | 3.57 | 10 min | 3.59 | 10 min | 3.47 |
| SC-209.01 | 10 min | 0.66 | 10 min | 0.67 | 10 min | 0.66 |
| SC-21.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.74 |
| SC-210.01 | 10 min | 1.49 | 10 min | 1.49 | 10 min | 1.38 |
| SC-210.02 | 10 min | 2.04 | 10 min | 2.05 | 10 min | 1.97 |
| SC-211.01 | 20 min | 0.56 | 20 min | 0.58 | 20 min | 0.54 |
| SC-211.02 | 25 min | 1.25 | 25 min | 1.29 | 25 min | 1.20 |
| SC-211.03 | 20 min | 1.92 | 20 min | 1.99 | 20 min | 1.85 |
| SC-211.04 | 20 min | 2.29 | 20 min | 2.37 | 20 min | 2.21 |
| SC-212.01 | 1 hour | 0.21 | 1 hour | 0.21 | 1 hour | 0.20 |
| SC-212.02 | 20 min | 0.43 | 20 min | 0.44 | 20 min | 0.42 |
| SC-213.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.57 |
| SC-213.02 | 10 min | 1.02 | 10 min | 1.03 | 10 min | 0.97 |
| SC-214.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.70 |
| SC-214.02 | 10 min | 1.64 | 10 min | 1.64 | 10 min | 1.52 |
| SC-215.01 | 10 min | 0.60 | 10 min | 0.60 | 10 min | 0.59 |
| SC-215.02 | 10 min | 1.08 | 10 min | 1.09 | 10 min | 1.07 |
| SC-216.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.51 |
| SC-216.02 | 10 min | 1.73 | 10 min | 1.73 | 10 min | 1.62 |
| SC-216.03 | 10 min | 2.69 | 10 min | 2.71 | 10 min | 2.60 |
| SC-216.04 | 10 min | 3.73 | 10 min | 3.77 | 10 min | 3.68 |
| SC-217.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.37 |
| SC-218.01 | 10 min | 0.31 | 10 min | 0.31 | 10 min | 0.28 |
| SC-219.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.37 |
| SC-22.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.41 |
| SC-220.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.57 |
| SC-221.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.53 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-221.02 | 10 min | 1.23 | 10 min | 1.24 | 10 min | 1.20 |
| SC-221.03 | 10 min | 1.51 | 10 min | 1.53 | 10 min | 1.49 |
| SC-221.04 | 10 min | 2.21 | 10 min | 2.23 | 10 min | 2.17 |
| SC-221.05 | 10 min | 2.86 | 10 min | 2.88 | 10 min | 2.81 |
| SC-221.06 | 10 min | 2.99 | 10 min | 3.03 | 10 min | 2.95 |
| SC-222.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.58 |
| SC-222.02 | 10 min | 0.98 | 10 min | 0.99 | 10 min | 0.95 |
| SC-222.03 | 10 min | 2.17 | 10 min | 2.20 | 10 min | 2.12 |
| SC-223.01 | 10 min | 0.27 | 10 min | 0.27 | 10 min | 0.25 |
| SC-224.01 | 15 min | 0.71 | 15 min | 0.73 | 15 min | 0.68 |
| SC-225.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.46 |
| SC-226.01 | 10 min | 0.37 | 10 min | 0.37 | 10 min | 0.33 |
| SC-226.02 | 10 min | 0.85 | 10 min | 0.86 | 10 min | 0.83 |
| SC-226.03 | 10 min | 1.75 | 10 min | 1.76 | 10 min | 1.74 |
| SC-226.04 | 10 min | 2.63 | 10 min | 2.67 | 10 min | 2.59 |
| SC-226.05 | 10 min | 10.48 | 10 min | 10.61 | 10 min | 10.32 |
| SC-226.06 | 10 min | 11.44 | 10 min | 11.57 | 10 min | 11.17 |
| SC-226.07 | 10 min | 12.46 | 10 min | 12.63 | 10 min | 12.12 |
| SC-226.08 | 10 min | 13.12 | 10 min | 13.29 | 10 min | 12.77 |
| SC-227.01 | 10 min | 0.19 | 10 min | 0.19 | 10 min | 0.18 |
| SC-228.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.38 |
| SC-229.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.27 |
| SC-23.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.55 |
| SC-23.02 | 10 min | 1.71 | 10 min | 1.73 | 10 min | 1.68 |
| SC-23.03 | 10 min | 2.09 | 10 min | 2.10 | 10 min | 2.07 |
| SC-230.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.27 |
| SC-231.01 | 10 min | 0.31 | 10 min | 0.31 | 10 min | 0.29 |
| SC-232.01 | 10 min | 0.77 | 10 min | 0.78 | 10 min | 0.78 |
| SC-232.02 | 10 min | 1.22 | 10 min | 1.23 | 10 min | 1.21 |
| SC-232.03 | 10 min | 2.85 | 10 min | 2.88 | 10 min | 2.81 |
| SC-233.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.51 |
| SC-233.02 | 10 min | 0.90 | 10 min | 0.91 | 10 min | 0.87 |
| SC-234.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.74 |
| SC-234.02 | 10 min | 1.53 | 10 min | 1.55 | 10 min | 1.51 |
| SC-234.03 | 10 min | 4.50 | 10 min | 4.54 | 10 min | 4.43 |
| SC-235.01 | 10 min | 0.30 | 10 min | 0.30 | 10 min | 0.27 |
| SC-236.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.34 |
| SC-236.02 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.54 |
| SC-237.01 | 10 min | 0.51 | 10 min | 0.51 | 10 min | 0.47 |
| SC-237.02 | 10 min | 1.04 | 10 min | 1.07 | 10 min | 1.01 |
| SC-238.01 | 10 min | 0.33 | 10 min | 0.33 | 10 min | 0.30 |
| SC-238.02 | 10 min | 0.75 | 10 min | 0.76 | 10 min | 0.74 |
| SC-239.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.40 |
| SC-24.01 | 10 min | 0.51 | 10 min | 0.51 | 10 min | 0.48 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-240.01 | 20 min | 1.10 | 20 min | 1.12 | 20 min | 1.06 |
| SC-240.02 | 20 min | 1.56 | 20 min | 1.60 | 20 min | 1.52 |
| SC-241.01 | 15 min | 4.53 | 10 min | 5.02 | 15 min | 4.42 |
| SC-242.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-242.02 | 10 min | 1.50 | 10 min | 1.50 | 10 min | 1.48 |
| SC-242.03 | 10 min | 2.22 | 10 min | 2.24 | 10 min | 2.21 |
| SC-242.04 | 10 min | 2.36 | 10 min | 2.38 | 10 min | 2.34 |
| SC-242.05 | 10 min | 5.23 | 10 min | 5.28 | 10 min | 5.11 |
| SC-242.06 | 10 min | 6.67 | 10 min | 6.73 | 10 min | 6.51 |
| SC-242.07 | 10 min | 7.14 | 10 min | 7.25 | 10 min | 7.01 |
| SC-242.08 | 10 min | 14.04 | 10 min | 14.49 | 10 min | 13.64 |
| SC-243.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.51 |
| SC-243.02 | 10 min | 2.04 | 10 min | 2.04 | 10 min | 1.95 |
| SC-244.01 | 10 min | 0.79 | 10 min | 0.79 | 10 min | 0.72 |
| SC-245.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.38 |
| SC-246.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.27 |
| SC-246.02 | 10 min | 0.72 | 10 min | 0.73 | 10 min | 0.71 |
| SC-247.01 | 10 min | 0.75 | 10 min | 0.75 | 10 min | 0.68 |
| SC-247.02 | 10 min | 1.89 | 10 min | 1.94 | 10 min | 1.81 |
| SC-248.01 | 10 min | 0.94 | 10 min | 0.97 | 10 min | 0.89 |
| SC-249.01 | 20 min | 0.22 | 20 min | 0.22 | 20 min | 0.21 |
| SC-249.02 | 20 min | 0.63 | 20 min | 0.64 | 20 min | 0.63 |
| SC-249.03 | 10 min | 1.29 | 10 min | 1.32 | 10 min | 1.26 |
| SC-249.04 | 10 min | 3.25 | 10 min | 3.27 | 10 min | 3.17 |
| SC-249.05 | 10 min | 9.49 | 10 min | 9.61 | 10 min | 9.22 |
| SC-249.06 | 10 min | 16.08 | 10 min | 16.65 | 15 min | 15.13 |
| SC-25.01 | 10 min | 1.56 | 10 min | 1.56 | 10 min | 1.43 |
| SC-25.02 | 10 min | 2.19 | 10 min | 2.19 | 10 min | 2.10 |
| SC-25.03 | 10 min | 2.38 | 10 min | 2.41 | 10 min | 2.29 |
| SC-25.04 | 10 min | 4.00 | 10 min | 4.06 | 10 min | 3.88 |
| SC-250.01 | 10 min | 0.18 | 10 min | 0.18 | 10 min | 0.18 |
| SC-251.01 | 10 min | 0.43 | 10 min | 0.43 | 10 min | 0.42 |
| SC-252.01 | 10 min | 0.49 | 10 min | 0.50 | 10 min | 0.47 |
| SC-252.02 | 10 min | 0.92 | 10 min | 0.93 | 10 min | 0.86 |
| SC-253.01 | 10 min | 0.74 | 10 min | 0.74 | 10 min | 0.68 |
| SC-253.02 | 10 min | 2.64 | 10 min | 2.65 | 10 min | 2.56 |
| SC-253.03 | 10 min | 3.23 | 10 min | 3.24 | 10 min | 3.11 |
| SC-254.01 | 10 min | 0.74 | 10 min | 0.74 | 10 min | 0.70 |
| SC-255.01 | 10 min | 0.69 | 10 min | 0.70 | 10 min | 0.64 |
| SC-256.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.56 |
| SC-257.01 | 10 min | 0.35 | 10 min | 0.35 | 10 min | 0.32 |
| SC-258.01 | 10 min | 1.58 | 10 min | 1.59 | 10 min | 1.43 |
| SC-258.02 | 10 min | 2.63 | 10 min | 2.68 | 10 min | 2.56 |
| SC-259.01 | 10 min | 0.68 | 10 min | 0.68 | 10 min | 0.66 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-259.02 | 10 min | 1.40 | 10 min | 1.41 | 10 min | 1.40 |
| SC-259.03 | 10 min | 1.99 | 10 min | 2.00 | 10 min | 1.96 |
| SC-259.04 | 10 min | 3.62 | 10 min | 3.63 | 10 min | 3.60 |
| SC-259.05 | 10 min | 4.41 | 10 min | 4.45 | 10 min | 4.38 |
| SC-259.06 | 10 min | 5.69 | 10 min | 5.71 | 10 min | 5.61 |
| SC-259.07 | 10 min | 7.17 | 10 min | 7.21 | 10 min | 7.13 |
| SC-259.08 | 10 min | 8.57 | 10 min | 8.60 | 10 min | 8.26 |
| SC-259.09 | 10 min | 22.34 | 10 min | 22.80 | 10 min | 21.53 |
| SC-259.10 | 10 min | 22.72 | 10 min | 23.17 | 10 min | 21.91 |
| SC-26.01 | 10 min | 0.48 | 10 min | 0.48 | 10 min | 0.44 |
| SC-260.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.42 |
| SC-261.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.57 |
| SC-262.01 | 10 min | 0.66 | 10 min | 0.66 | 10 min | 0.61 |
| SC-262.02 | 10 min | 1.19 | 10 min | 1.19 | 10 min | 1.14 |
| SC-263.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.65 |
| SC-264.01 | 10 min | 0.39 | 10 min | 0.39 | 10 min | 0.36 |
| SC-265.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.47 |
| SC-265.02 | 20 min | 1.20 | 15 min | 1.22 | 20 min | 1.20 |
| SC-265.03 | 15 min | 2.08 | 15 min | 2.15 | 20 min | 2.09 |
| SC-265.04 | 10 min | 10.21 | 10 min | 10.49 | 15 min | 9.70 |
| SC-266.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.58 |
| SC-266.02 | 10 min | 1.22 | 10 min | 1.22 | 10 min | 1.16 |
| SC-266.03 | 10 min | 1.47 | 10 min | 1.49 | 10 min | 1.44 |
| SC-266.04 | 10 min | 5.60 | 10 min | 5.68 | 10 min | 5.45 |
| SC-266.05 | 10 min | 6.48 | 10 min | 6.61 | 10 min | 6.32 |
| SC-267.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.57 |
| SC-268.01 | 10 min | 1.04 | 10 min | 1.04 | 10 min | 0.98 |
| SC-268.02 | 10 min | 2.70 | 10 min | 2.70 | 10 min | 2.54 |
| SC-269.01 | 20 min | 0.43 | 20 min | 0.43 | 20 min | 0.43 |
| SC-27.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.46 |
| SC-270.01 | 20 min | 0.47 | 15 min | 0.48 | 20 min | 0.47 |
| SC-271.01 | 15 min | 0.29 | 10 min | 0.33 | 20 min | 0.28 |
| SC-272.01 | 20 min | 0.71 | 20 min | 0.72 | 20 min | 0.71 |
| SC-272.02 | 20 min | 1.45 | 10 min | 1.60 | 20 min | 1.44 |
| SC-272.03 | 10 min | 2.58 | 10 min | 2.64 | 10 min | 2.51 |
| SC-273.01 | 10 min | 0.73 | 10 min | 0.74 | 10 min | 0.72 |
| SC-274.01 | 20 min | 0.36 | 20 min | 0.38 | 20 min | 0.35 |
| SC-274.02 | 10 min | 1.44 | 10 min | 1.45 | 10 min | 1.41 |
| SC-274.03 | 10 min | 3.48 | 10 min | 3.53 | 10 min | 3.35 |
| SC-274.04 | 10 min | 4.49 | 10 min | 4.53 | 10 min | 4.39 |
| SC-274.05 | 10 min | 5.81 | 10 min | 5.96 | 10 min | 5.60 |
| SC-275.01 | 10 min | 0.68 | 10 min | 0.68 | 10 min | 0.63 |
| SC-276.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.46 |
| SC-277.01 | 10 min | 0.62 | 10 min | 0.63 | 10 min | 0.57 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-278.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.35 |
| SC-278.02 | 10 min | 5.04 | 10 min | 5.18 | 10 min | 4.85 |
| SC-279.01 | 10 min | 0.66 | 10 min | 0.68 | 15 min | 0.59 |
| SC-279.02 | 10 min | 4.81 | 10 min | 4.88 | 10 min | 4.68 |
| SC-28.01 | 20 min | 0.41 | 15 min | 0.42 | 20 min | 0.41 |
| SC-28.02 | 20 min | 0.92 | 20 min | 0.93 | 20 min | 0.92 |
| SC-28.03 | 20 min | 1.29 | 15 min | 1.31 | 20 min | 1.29 |
| SC-28.04 | 10 min | 2.82 | 10 min | 2.86 | 10 min | 2.75 |
| SC-280.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.57 |
| SC-29.01 | 10 min | 0.48 | 10 min | 0.48 | 10 min | 0.44 |
| SC-29.02 | 10 min | 1.29 | 10 min | 1.31 | 10 min | 1.27 |
| SC-3.01 | 10 min | 0.55 | 10 min | 0.57 | 15 min | 0.51 |
| SC-3.02 | 15 min | 1.73 | 15 min | 1.78 | 20 min | 1.72 |
| SC-30.01 | 10 min | 0.85 | 10 min | 0.85 | 10 min | 0.78 |
| SC-30.02 | 10 min | 1.52 | 10 min | 1.52 | 10 min | 1.46 |
| SC-30.03 | 10 min | 2.10 | 10 min | 2.13 | 10 min | 2.05 |
| SC-30.04 | 10 min | 2.66 | 10 min | 2.70 | 10 min | 2.62 |
| SC-31.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.54 |
| SC-31.02 | 10 min | 1.15 | 10 min | 1.18 | 10 min | 1.12 |
| SC-32.01 | 15 min | 0.48 | 10 min | 0.55 | 15 min | 0.47 |
| SC-32.02 | 15 min | 0.71 | 15 min | 0.74 | 15 min | 0.69 |
| SC-33.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.66 |
| SC-33.02 | 10 min | 1.61 | 10 min | 1.62 | 10 min | 1.56 |
| SC-34.01 | 10 min | 0.55 | 10 min | 0.55 | 10 min | 0.51 |
| SC-34.02 | 10 min | 1.11 | 10 min | 1.11 | 10 min | 1.05 |
| SC-34.03 | 10 min | 1.32 | 10 min | 1.33 | 10 min | 1.24 |
| SC-35.01 | 10 min | 0.52 | 10 min | 0.52 | 10 min | 0.46 |
| SC-35.02 | 10 min | 1.39 | 10 min | 1.39 | 10 min | 1.37 |
| SC-35.03 | 10 min | 2.22 | 10 min | 2.23 | 10 min | 2.21 |
| SC-35.04 | 10 min | 2.37 | 10 min | 2.37 | 10 min | 2.37 |
| SC-36.01 | 10 min | 1.08 | 10 min | 1.08 | 10 min | 0.99 |
| SC-36.02 | 10 min | 1.95 | 10 min | 1.95 | 10 min | 1.79 |
| SC-37.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.39 |
| SC-37.02 | 10 min | 1.15 | 10 min | 1.17 | 10 min | 1.11 |
| SC-38.01 | 10 min | 0.48 | 10 min | 0.49 | 10 min | 0.45 |
| SC-39.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.26 |
| SC-4.01 | 20 min | 0.61 | 15 min | 0.60 | 20 min | 0.61 |
| SC-40.01 | 10 min | 0.66 | 10 min | 0.66 | 10 min | 0.61 |
| SC-41.01 | 10 min | 0.44 | 10 min | 0.44 | 10 min | 0.39 |
| SC-42.01 | 10 min | 1.48 | 10 min | 1.48 | 10 min | 1.34 |
| SC-43.01 | 10 min | 0.32 | 10 min | 0.32 | 10 min | 0.29 |
| SC-44.01 | 10 min | 1.01 | 10 min | 1.01 | 10 min | 0.93 |
| SC-44.02 | 10 min | 1.58 | 10 min | 1.60 | 10 min | 1.54 |
| SC-44.03 | 10 min | 2.17 | 10 min | 2.20 | 10 min | 2.12 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-44.04 | 10 min | 3.35 | 10 min | 3.39 | 10 min | 3.22 |
| SC-44.05 | 10 min | 5.80 | 10 min | 5.88 | 10 min | 5.68 |
| SC-44.06 | 10 min | 6.13 | 10 min | 6.20 | 10 min | 6.02 |
| SC-44.07 | 10 min | 6.82 | 10 min | 6.94 | 10 min | 6.65 |
| SC-44.08 | 10 min | 8.82 | 10 min | 8.95 | 10 min | 8.63 |
| SC-44.09 | 10 min | 9.12 | 10 min | 9.27 | 15 min | 8.94 |
| SC-44.10 | 12 hours | 2.42 | 12 hours | 2.41 | 12 hours | 2.41 |
| SC-44.11 | 45 min | 12.48 | 45 min | 12.50 | 45 min | 12.41 |
| SC-44.12 | 12 hours | 5.67 | 12 hours | 5.68 | 12 hours | 5.67 |
| SC-44.13 | 12 hours | 5.75 | 12 hours | 5.76 | 12 hours | 5.74 |
| SC-44.14 | 12 hours | 6.49 | 12 hours | 6.50 | 12 hours | 6.49 |
| SC-44.15 | 12 hours | 4.64 | 12 hours | 4.61 | 12 hours | 4.39 |
| SC-44.16 | 12 hours | 4.66 | 12 hours | 4.62 | 12 hours | 4.41 |
| SC-44.17 | 15 min | 8.32 | 15 min | 8.41 | 20 min | 8.22 |
| SC-44.18 | 15 min | 8.86 | 15 min | 8.97 | 20 min | 8.61 |
| SC-44.19 | 15 min | 10.10 | 15 min | 10.23 | 25 min | 9.81 |
| SC-44.20 | 25 min | 9.34 | 25 min | 9.38 | 25 min | 9.29 |
| SC-45.01 | 10 min | 0.74 | 10 min | 0.75 | 10 min | 0.67 |
| SC-46.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.56 |
| SC-46.02 | 10 min | 1.03 | 10 min | 1.04 | 10 min | 0.99 |
| SC-46.03 | 10 min | 1.55 | 10 min | 1.57 | 10 min | 1.51 |
| SC-46.04 | 10 min | 1.74 | 10 min | 1.77 | 10 min | 1.72 |
| SC-47.01 | 10 min | 0.99 | 10 min | 0.99 | 10 min | 0.92 |
| SC-48.01 | 10 min | 0.75 | 10 min | 0.75 | 10 min | 0.68 |
| SC-48.02 | 10 min | 1.17 | 10 min | 1.18 | 10 min | 1.12 |
| SC-49.01 | 10 min | 0.84 | 10 min | 0.84 | 10 min | 0.79 |
| SC-5.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.48 |
| SC-50.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.28 |
| SC-51.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.27 |
| SC-52.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.28 |
| SC-53.01 | 10 min | 0.72 | 10 min | 0.72 | 10 min | 0.66 |
| SC-53.02 | 10 min | 1.45 | 10 min | 1.47 | 10 min | 1.43 |
| SC-53.03 | 10 min | 1.76 | 10 min | 1.79 | 10 min | 1.74 |
| SC-54.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.54 |
| SC-54.02 | 10 min | 1.10 | 10 min | 1.12 | 10 min | 1.08 |
| SC-55.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.84 |
| SC-56.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.39 |
| SC-57.01 | 10 min | 0.31 | 10 min | 0.31 | 10 min | 0.31 |
| SC-58.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.55 |
| SC-59.01 | 10 min | 0.79 | 10 min | 0.80 | 10 min | 0.74 |
| SC-59.02 | 10 min | 1.49 | 10 min | 1.50 | 10 min | 1.47 |
| SC-59.03 | 10 min | 2.18 | 10 min | 2.19 | 10 min | 2.15 |
| SC-59.04 | 10 min | 2.82 | 10 min | 2.85 | 10 min | 2.72 |
| SC-59.05 | 10 min | 5.96 | 10 min | 6.07 | 10 min | 5.77 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-59.06 | 10 min | 6.84 | 10 min | 6.97 | 10 min | 6.61 |
| SC-59.07 | 10 min | 11.45 | 10 min | 11.69 | 10 min | 11.18 |
| SC-59.08 | 15 min | 11.49 | 15 min | 11.73 | 15 min | 11.18 |
| SC-59.09 | 15 min | 14.04 | 15 min | 14.31 | 25 min | 13.58 |
| SC-59.10 | 25 min | 12.35 | 25 min | 12.53 | 25 min | 11.99 |
| SC-6.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.62 |
| SC-60.01 | 10 min | 0.53 | 10 min | 0.55 | 15 min | 0.47 |
| SC-60.02 | 10 min | 2.10 | 10 min | 2.15 | 10 min | 2.04 |
| SC-61.01 | 10 min | 1.10 | 10 min | 1.12 | 10 min | 1.07 |
| SC-62.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.65 |
| SC-63.01 | 10 min | 0.40 | 10 min | 0.41 | 10 min | 0.39 |
| SC-64.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.49 |
| SC-64.02 | 10 min | 1.76 | 10 min | 1.78 | 10 min | 1.73 |
| SC-64.03 | 10 min | 3.31 | 10 min | 3.34 | 10 min | 3.27 |
| SC-64.04 | 10 min | 4.60 | 10 min | 4.69 | 10 min | 4.50 |
| SC-65.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.38 |
| SC-66.01 | 10 min | 0.32 | 10 min | 0.32 | 10 min | 0.31 |
| SC-66.02 | 15 min | 0.72 | 10 min | 0.81 | 20 min | 0.71 |
| SC-67.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.55 |
| SC-68.01 | 10 min | 0.81 | 10 min | 0.81 | 10 min | 0.75 |
| SC-68.02 | 10 min | 1.52 | 10 min | 1.54 | 10 min | 1.48 |
| SC-68.03 | 10 min | 2.77 | 10 min | 2.78 | 10 min | 2.67 |
| SC-69.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.63 |
| SC-7.01 | 10 min | 0.90 | 10 min | 0.91 | 10 min | 0.82 |
| SC-70.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.60 |
| SC-70.02 | 10 min | 1.02 | 10 min | 1.02 | 10 min | 0.98 |
| SC-71.01 | 10 min | 0.81 | 10 min | 0.81 | 10 min | 0.74 |
| SC-71.02 | 10 min | 1.53 | 10 min | 1.53 | 10 min | 1.48 |
| SC-72.01 | 10 min | 0.87 | 10 min | 0.87 | 10 min | 0.80 |
| SC-73.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.65 |
| SC-74.01 | 10 min | 0.81 | 10 min | 0.81 | 10 min | 0.74 |
| SC-75.01 | 10 min | 0.47 | 10 min | 0.48 | 10 min | 0.47 |
| SC-75.02 | 10 min | 1.91 | 10 min | 1.96 | 10 min | 1.86 |
| SC-75.03 | 10 min | 2.72 | 10 min | 2.78 | 10 min | 2.64 |
| SC-75.04 | 10 min | 4.69 | 10 min | 4.75 | 10 min | 4.67 |
| SC-76.01 | 10 min | 0.65 | 10 min | 0.67 | 10 min | 0.63 |
| SC-77.01 | 10 min | 0.96 | 10 min | 0.96 | 10 min | 0.88 |
| SC-77.02 | 10 min | 1.45 | 10 min | 1.45 | 10 min | 1.34 |
| SC-77.03 | 10 min | 2.01 | 10 min | 2.02 | 10 min | 1.93 |
| SC-78.01 | 10 min | 0.90 | 10 min | 0.90 | 10 min | 0.83 |
| SC-79.01 | 10 min | 0.96 | 10 min | 0.97 | 10 min | 0.96 |
| SC-79.02 | 10 min | 1.78 | 10 min | 1.79 | 10 min | 1.77 |
| SC-79.03 | 10 min | 3.90 | 10 min | 3.94 | 10 min | 3.86 |
| SC-8.01 | 10 min | 0.76 | 10 min | 0.78 | 10 min | 0.69 |

## Initial Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-8.02 | 10 min | 1.82 | 10 min | 1.85 | 10 min | 1.78 |
| SC-8.03 | 10 min | 4.76 | 10 min | 4.77 | 10 min | 4.70 |
| SC-8.04 | 10 min | 8.34 | 10 min | 8.46 | 10 min | 8.20 |
| SC-8.05 | 10 min | 9.11 | 10 min | 9.18 | 10 min | 8.74 |
| SC-8.06 | 10 min | 9.46 | 10 min | 9.51 | 10 min | 9.12 |
| SC-80.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.87 |
| SC-80.02 | 10 min | 1.86 | 10 min | 1.87 | 10 min | 1.81 |
| SC-81.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.65 |
| SC-81.02 | 10 min | 2.07 | 10 min | 2.07 | 10 min | 1.93 |
| SC-82.01 | 10 min | 0.84 | 10 min | 0.84 | 10 min | 0.77 |
| SC-83.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.48 |
| SC-84.01 | 10 min | 0.79 | 10 min | 0.79 | 10 min | 0.72 |
| SC-84.02 | 10 min | 1.92 | 10 min | 1.95 | 10 min | 1.82 |
| SC-84.03 | 10 min | 2.54 | 10 min | 2.56 | 10 min | 2.44 |
| SC-84.04 | 10 min | 3.01 | 10 min | 3.03 | 10 min | 2.91 |
| SC-84.05 | 10 min | 3.56 | 10 min | 3.62 | 10 min | 3.45 |
| SC-84.06 | 10 min | 3.93 | 10 min | 3.97 | 10 min | 3.79 |
| SC-85.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.46 |
| SC-86.01 | 10 min | 0.75 | 10 min | 0.75 | 10 min | 0.69 |
| SC-86.02 | 10 min | 1.44 | 10 min | 1.45 | 10 min | 1.37 |
| SC-87.01 | 10 min | 1.10 | 10 min | 1.10 | 10 min | 1.00 |
| SC-87.02 | 10 min | 1.84 | 10 min | 1.84 | 10 min | 1.77 |
| SC-88.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.45 |
| SC-88.02 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.76 |
| SC-89.01 | 10 min | 0.54 | 10 min | 0.54 | 10 min | 0.50 |
| SC-89.02 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.56 |
| SC-9.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.65 |
| SC-90.01 | 10 min | 0.21 | 10 min | 0.21 | 10 min | 0.20 |
| SC-91.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.57 |
| SC-91.02 | 10 min | 1.31 | 10 min | 1.32 | 10 min | 1.24 |
| SC-92.01 | 10 min | 0.63 | 10 min | 0.64 | 10 min | 0.57 |
| SC-92.02 | 10 min | 1.75 | 10 min | 1.77 | 10 min | 1.70 |
| SC-93.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.63 |
| SC-94.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.69 |
| SC-94.02 | 10 min | 1.75 | 10 min | 1.77 | 10 min | 1.69 |
| SC-95.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.40 |
| SC-95.02 | 10 min | 1.09 | 10 min | 1.09 | 10 min | 1.00 |
| SC-96.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.46 |
| SC-97.01 | 10 min | 0.34 | 10 min | 0.34 | 10 min | 0.30 |
| SC-97.02 | 10 min | 1.94 | 10 min | 1.95 | 10 min | 1.92 |
| SC-98.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.54 |
| SC-99.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.53 |
| SC-99.02 | 10 min | 1.54 | 10 min | 1.56 | 10 min | 1.51 |
| SC-99.03 | 10 min | 2.64 | 10 min | 2.67 | 10 min | 2.62 |

| Initial Loss Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Initial Loss Sensitivity Results | | | |
| | | | IL Reduced by 20% | | IL Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-99.04 | 10 min | 7.03 | 10 min | 7.13 | 10 min | 6.90 |
| Dummy1 | 15 min | 35.32 | 10 min | 36.00 | 15 min | 34.19 |
| Dummy2 | 25 min | 55.39 | 25 min | 56.02 | 25 min | 54.64 |
| Dummy3 | 30 min | 106.76 | 30 min | 108.07 | 30 min | 105.67 |
| DummyOut | 1.50 hour | 113.93 | 1.50 hour | 114.61 | 1.50 hour | 112.97 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 10 min | 0.93 | 10 min | 0.93 | 10 min | 0.92 |
| SC-1.02 | 10 min | 2.00 | 10 min | 2.01 | 10 min | 2.00 |
| SC-1.03 | 10 min | 2.38 | 10 min | 2.38 | 10 min | 2.38 |
| SC-1.04 | 10 min | 6.27 | 10 min | 6.27 | 10 min | 6.26 |
| SC-1.05 | 10 min | 6.82 | 10 min | 6.82 | 10 min | 6.81 |
| SC-1.06 | 10 min | 7.79 | 10 min | 7.79 | 10 min | 7.77 |
| SC-1.07 | 10 min | 7.91 | 10 min | 7.92 | 10 min | 7.89 |
| SC-1.08 | 45 min | 8.71 | 45 min | 8.72 | 45 min | 8.64 |
| SC-1.09 | 45 min | 9.35 | 45 min | 9.36 | 45 min | 9.28 |
| SC-1.10 | 45 min | 9.36 | 45 min | 9.38 | 45 min | 9.29 |
| SC-1.11 | 10 min | 13.59 | 10 min | 13.59 | 10 min | 13.56 |
| SC-1.12 | 10 min | 16.99 | 10 min | 16.99 | 10 min | 16.95 |
| SC-1.13 | 10 min | 19.43 | 10 min | 19.43 | 10 min | 19.38 |
| SC-1.14 | 10 min | 23.13 | 10 min | 23.13 | 10 min | 23.06 |
| SC-1.15 | 10 min | 25.02 | 10 min | 25.03 | 10 min | 24.95 |
| SC-1.16 | 15 min | 28.64 | 15 min | 28.65 | 15 min | 28.55 |
| SC-1.17 | 15 min | 28.95 | 15 min | 28.97 | 15 min | 28.86 |
| SC-1.18 | 30 min | 18.10 | 30 min | 18.12 | 30 min | 18.02 |
| SC-1.19 | 1 hour | 22.75 | 1 hour | 22.79 | 1 hour | 22.50 |
| SC-1.20 | 1 hour | 20.73 | 1 hour | 20.76 | 1 hour | 20.57 |
| SC-1.21 | 1 hour | 20.74 | 1 hour | 20.78 | 1 hour | 20.59 |
| SC-1.22 | 1.50 hour | 20.92 | 1.50 hour | 20.97 | 1 hour | 20.66 |
| SC-1.23 | 1.50 hour | 23.45 | 1.50 hour | 23.50 | 1.50 hour | 23.23 |
| SC-1.24 | 20 min | 31.77 | 20 min | 31.79 | 20 min | 31.66 |
| SC-1.25 | 25 min | 32.54 | 25 min | 32.56 | 25 min | 32.42 |
| SC-1.26 | 25 min | 35.37 | 25 min | 35.40 | 25 min | 35.25 |
| SC-1.27 | 25 min | 35.95 | 25 min | 35.97 | 25 min | 35.82 |
| SC-1.28 | 15 min | 47.23 | 15 min | 47.26 | 15 min | 47.08 |
| SC-1.29 | 25 min | 49.56 | 25 min | 49.60 | 25 min | 49.36 |
| SC-1.30 | 25 min | 50.66 | 25 min | 50.71 | 25 min | 50.46 |
| SC-1.31 | 25 min | 51.58 | 25 min | 51.63 | 25 min | 51.38 |
| SC-1.32 | 25 min | 52.64 | 25 min | 52.70 | 25 min | 52.43 |
| SC-1.33 | 30 min | 54.45 | 30 min | 54.52 | 30 min | 54.23 |
| SC-1.34 | 30 min | 54.52 | 30 min | 54.59 | 30 min | 54.29 |
| SC-1.35 | 30 min | 54.65 | 30 min | 54.73 | 30 min | 54.41 |
| SC-1.36 | 30 min | 57.49 | 30 min | 57.58 | 30 min | 57.24 |
| SC-10.01 | 10 min | 0.97 | 10 min | 0.97 | 10 min | 0.96 |
| SC-100.01 | 10 min | 1.14 | 10 min | 1.14 | 10 min | 1.14 |
| SC-100.02 | 10 min | 1.95 | 10 min | 1.95 | 10 min | 1.95 |
| SC-101.01 | 10 min | 1.18 | 10 min | 1.18 | 10 min | 1.18 |
| SC-101.02 | 10 min | 2.05 | 10 min | 2.05 | 10 min | 2.05 |
| SC-102.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.94 |
| SC-102.02 | 10 min | 3.50 | 10 min | 3.50 | 10 min | 3.49 |
| SC-103.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.63 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-103.02 | 10 min | 2.17 | 10 min | 2.17 | 10 min | 2.16 |
| SC-104.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-105.01 | 10 min | 0.60 | 10 min | 0.60 | 10 min | 0.60 |
| SC-105.02 | 10 min | 1.41 | 10 min | 1.41 | 10 min | 1.41 |
| SC-105.03 | 10 min | 3.29 | 10 min | 3.29 | 10 min | 3.28 |
| SC-105.04 | 10 min | 4.44 | 10 min | 4.44 | 10 min | 4.43 |
| SC-105.05 | 10 min | 5.26 | 10 min | 5.26 | 10 min | 5.25 |
| SC-105.06 | 10 min | 5.54 | 10 min | 5.55 | 10 min | 5.53 |
| SC-105.07 | 15 min | 8.11 | 15 min | 8.12 | 15 min | 8.09 |
| SC-105.08 | 15 min | 9.32 | 15 min | 9.33 | 15 min | 9.29 |
| SC-105.09 | 10 min | 12.28 | 10 min | 12.28 | 10 min | 12.24 |
| SC-106.01 | 10 min | 0.44 | 10 min | 0.44 | 10 min | 0.44 |
| SC-107.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.76 |
| SC-108.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-109.01 | 10 min | 0.73 | 10 min | 0.73 | 10 min | 0.72 |
| SC-11.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-110.01 | 10 min | 0.67 | 10 min | 0.67 | 10 min | 0.67 |
| SC-110.02 | 10 min | 1.50 | 10 min | 1.50 | 10 min | 1.49 |
| SC-110.03 | 10 min | 1.64 | 10 min | 1.64 | 10 min | 1.63 |
| SC-111.01 | 20 min | 0.45 | 20 min | 0.45 | 20 min | 0.44 |
| SC-112.01 | 10 min | 1.13 | 10 min | 1.13 | 10 min | 1.12 |
| SC-113.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-113.02 | 10 min | 1.30 | 10 min | 1.30 | 10 min | 1.30 |
| SC-114.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.71 |
| SC-114.02 | 10 min | 1.14 | 10 min | 1.14 | 10 min | 1.14 |
| SC-114.03 | 10 min | 2.34 | 10 min | 2.34 | 10 min | 2.33 |
| SC-115.01 | 10 min | 0.65 | 10 min | 0.65 | 10 min | 0.65 |
| SC-115.02 | 10 min | 1.04 | 10 min | 1.04 | 10 min | 1.03 |
| SC-116.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.64 |
| SC-116.02 | 10 min | 1.03 | 10 min | 1.03 | 10 min | 1.03 |
| SC-117.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.38 |
| SC-118.01 | 10 min | 0.83 | 10 min | 0.83 | 10 min | 0.83 |
| SC-119.01 | 10 min | 1.26 | 10 min | 1.26 | 10 min | 1.26 |
| SC-119.02 | 10 min | 3.14 | 10 min | 3.14 | 10 min | 3.14 |
| SC-12.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.69 |
| SC-12.02 | 10 min | 1.20 | 10 min | 1.20 | 10 min | 1.20 |
| SC-12.03 | 10 min | 2.19 | 10 min | 2.19 | 10 min | 2.18 |
| SC-12.04 | 10 min | 2.79 | 10 min | 2.79 | 10 min | 2.78 |
| SC-120.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.57 |
| SC-121.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.71 |
| SC-122.01 | 10 min | 1.16 | 10 min | 1.16 | 10 min | 1.15 |
| SC-122.02 | 10 min | 1.79 | 10 min | 1.79 | 10 min | 1.78 |
| SC-122.03 | 10 min | 2.41 | 10 min | 2.41 | 10 min | 2.41 |
| SC-123.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.58 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-123.02 | 10 min | 1.62 | 10 min | 1.63 | 10 min | 1.62 |
| SC-123.03 | 10 min | 10.91 | 10 min | 10.91 | 10 min | 10.88 |
| SC-123.04 | 10 min | 11.19 | 10 min | 11.19 | 10 min | 11.16 |
| SC-123.05 | 10 min | 14.12 | 10 min | 14.13 | 10 min | 14.09 |
| SC-123.06 | 10 min | 14.54 | 10 min | 14.54 | 10 min | 14.50 |
| SC-123.07 | 10 min | 15.60 | 10 min | 15.60 | 10 min | 15.56 |
| SC-124.01 | 20 min | 0.70 | 20 min | 0.71 | 20 min | 0.70 |
| SC-124.02 | 20 min | 4.51 | 20 min | 4.52 | 20 min | 4.50 |
| SC-125.01 | 20 min | 0.97 | 20 min | 0.97 | 20 min | 0.97 |
| SC-126.01 | 10 min | 0.54 | 10 min | 0.54 | 10 min | 0.54 |
| SC-126.02 | 20 min | 1.30 | 20 min | 1.31 | 20 min | 1.30 |
| SC-126.03 | 20 min | 2.40 | 20 min | 2.40 | 20 min | 2.39 |
| SC-127.01 | 10 min | 1.28 | 10 min | 1.28 | 10 min | 1.28 |
| SC-127.02 | 10 min | 3.43 | 10 min | 3.43 | 10 min | 3.42 |
| SC-128.01 | 10 min | 1.25 | 10 min | 1.25 | 10 min | 1.25 |
| SC-129.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.61 |
| SC-13.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.63 |
| SC-130.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.93 |
| SC-131.01 | 10 min | 0.37 | 10 min | 0.37 | 10 min | 0.37 |
| SC-132.01 | 10 min | 0.52 | 10 min | 0.52 | 10 min | 0.52 |
| SC-133.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.38 |
| SC-134.01 | 10 min | 0.32 | 10 min | 0.32 | 10 min | 0.31 |
| SC-134.02 | 10 min | 1.02 | 10 min | 1.02 | 10 min | 1.02 |
| SC-134.03 | 10 min | 2.07 | 10 min | 2.07 | 10 min | 2.06 |
| SC-134.04 | 10 min | 2.93 | 10 min | 2.93 | 10 min | 2.92 |
| SC-135.01 | 10 min | 0.25 | 10 min | 0.25 | 10 min | 0.25 |
| SC-135.02 | 10 min | 1.39 | 10 min | 1.39 | 10 min | 1.39 |
| SC-135.03 | 10 min | 1.83 | 10 min | 1.83 | 10 min | 1.83 |
| SC-135.04 | 10 min | 4.06 | 10 min | 4.06 | 10 min | 4.05 |
| SC-135.05 | 10 min | 4.60 | 10 min | 4.60 | 10 min | 4.59 |
| SC-135.06 | 10 min | 7.50 | 10 min | 7.51 | 10 min | 7.49 |
| SC-136.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.76 |
| SC-137.01 | 10 min | 0.77 | 10 min | 0.77 | 10 min | 0.77 |
| SC-138.01 | 10 min | 0.92 | 10 min | 0.92 | 10 min | 0.92 |
| SC-139.01 | 10 min | 0.90 | 10 min | 0.90 | 10 min | 0.90 |
| SC-139.02 | 10 min | 1.09 | 10 min | 1.09 | 10 min | 1.09 |
| SC-14.01 | 10 min | 1.11 | 10 min | 1.11 | 10 min | 1.11 |
| SC-14.02 | 10 min | 1.69 | 10 min | 1.69 | 10 min | 1.69 |
| SC-14.03 | 10 min | 2.21 | 10 min | 2.21 | 10 min | 2.21 |
| SC-140.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.64 |
| SC-141.01 | 10 min | 1.04 | 10 min | 1.04 | 10 min | 1.04 |
| SC-142.01 | 20 min | 1.55 | 20 min | 1.55 | 20 min | 1.54 |
| SC-143.01 | 20 min | 0.61 | 20 min | 0.61 | 20 min | 0.60 |
| SC-143.02 | 10 min | 4.94 | 10 min | 4.94 | 10 min | 4.92 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-144.01 | 10 min | 0.73 | 10 min | 0.73 | 10 min | 0.73 |
| SC-144.02 | 10 min | 1.04 | 10 min | 1.04 | 10 min | 1.03 |
| SC-144.03 | 10 min | 1.38 | 10 min | 1.38 | 10 min | 1.38 |
| SC-144.04 | 10 min | 2.44 | 10 min | 2.44 | 10 min | 2.43 |
| SC-144.05 | 10 min | 4.60 | 10 min | 4.60 | 10 min | 4.59 |
| SC-145.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.94 |
| SC-145.02 | 10 min | 1.74 | 10 min | 1.74 | 10 min | 1.73 |
| SC-146.01 | 15 min | 1.75 | 15 min | 1.76 | 15 min | 1.74 |
| SC-147.01 | 10 min | 0.92 | 10 min | 0.92 | 10 min | 0.92 |
| SC-147.02 | 10 min | 1.25 | 10 min | 1.25 | 10 min | 1.25 |
| SC-147.03 | 10 min | 3.19 | 10 min | 3.20 | 10 min | 3.18 |
| SC-148.01 | 10 min | 0.78 | 10 min | 0.78 | 10 min | 0.78 |
| SC-148.02 | 10 min | 1.67 | 10 min | 1.67 | 10 min | 1.67 |
| SC-149.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-149.02 | 10 min | 1.83 | 10 min | 1.83 | 10 min | 1.82 |
| SC-15.01 | 10 min | 1.13 | 10 min | 1.13 | 10 min | 1.12 |
| SC-15.02 | 10 min | 1.48 | 10 min | 1.48 | 10 min | 1.47 |
| SC-15.03 | 10 min | 2.33 | 10 min | 2.33 | 10 min | 2.33 |
| SC-150.01 | 10 min | 0.68 | 10 min | 0.68 | 10 min | 0.68 |
| SC-150.02 | 10 min | 1.31 | 10 min | 1.31 | 10 min | 1.30 |
| SC-150.03 | 10 min | 3.32 | 10 min | 3.32 | 10 min | 3.31 |
| SC-150.04 | 10 min | 4.30 | 10 min | 4.30 | 10 min | 4.29 |
| SC-150.05 | 10 min | 5.94 | 10 min | 5.95 | 10 min | 5.93 |
| SC-150.06 | 10 min | 11.00 | 10 min | 11.00 | 10 min | 10.97 |
| SC-150.07 | 10 min | 17.06 | 10 min | 17.06 | 10 min | 17.02 |
| SC-150.08 | 2 hours | 9.68 | 2 hours | 9.70 | 2 hours | 9.58 |
| SC-150.09 | 2 hours | 10.19 | 2 hours | 10.22 | 2 hours | 10.09 |
| SC-150.10 | 2 hours | 12.14 | 2 hours | 12.17 | 2 hours | 12.01 |
| SC-150.11 | 10 min | 18.60 | 10 min | 18.61 | 10 min | 18.56 |
| SC-150.12 | 10 min | 29.36 | 10 min | 29.36 | 10 min | 29.28 |
| SC-150.13 | 15 min | 33.27 | 15 min | 33.28 | 15 min | 33.18 |
| SC-150.14 | 15 min | 49.84 | 15 min | 49.88 | 15 min | 49.71 |
| SC-150.15 | 15 min | 50.19 | 15 min | 50.23 | 15 min | 50.06 |
| SC-150.16 | 15 min | 52.64 | 15 min | 52.68 | 15 min | 52.47 |
| SC-150.17 | 15 min | 53.46 | 15 min | 53.50 | 15 min | 53.28 |
| SC-151.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.91 |
| SC-151.02 | 10 min | 1.38 | 10 min | 1.38 | 10 min | 1.38 |
| SC-152.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.80 |
| SC-153.01 | 10 min | 0.65 | 10 min | 0.65 | 10 min | 0.65 |
| SC-153.02 | 10 min | 1.52 | 10 min | 1.52 | 10 min | 1.51 |
| SC-154.01 | 10 min | 1.19 | 10 min | 1.19 | 10 min | 1.19 |
| SC-154.02 | 10 min | 3.98 | 10 min | 3.98 | 10 min | 3.97 |
| SC-155.01 | 10 min | 0.43 | 10 min | 0.43 | 10 min | 0.43 |
| SC-155.02 | 10 min | 1.25 | 10 min | 1.25 | 10 min | 1.25 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-156.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.49 |
| SC-157.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.57 |
| SC-158.01 | 10 min | 0.77 | 10 min | 0.77 | 10 min | 0.77 |
| SC-158.02 | 10 min | 0.98 | 10 min | 0.98 | 10 min | 0.98 |
| SC-158.03 | 10 min | 2.13 | 10 min | 2.13 | 10 min | 2.12 |
| SC-158.04 | 10 min | 3.96 | 10 min | 3.96 | 10 min | 3.95 |
| SC-159.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.61 |
| SC-16.01 | 10 min | 0.73 | 10 min | 0.73 | 10 min | 0.73 |
| SC-160.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-160.02 | 10 min | 1.32 | 10 min | 1.32 | 10 min | 1.32 |
| SC-161.01 | 10 min | 0.72 | 10 min | 0.72 | 10 min | 0.72 |
| SC-161.02 | 10 min | 1.36 | 10 min | 1.36 | 10 min | 1.36 |
| SC-162.01 | 10 min | 0.84 | 10 min | 0.84 | 10 min | 0.84 |
| SC-163.01 | 10 min | 0.47 | 10 min | 0.47 | 10 min | 0.47 |
| SC-163.02 | 10 min | 0.90 | 10 min | 0.90 | 10 min | 0.90 |
| SC-163.03 | 10 min | 1.48 | 10 min | 1.48 | 10 min | 1.48 |
| SC-163.04 | 10 min | 2.11 | 10 min | 2.11 | 10 min | 2.11 |
| SC-163.05 | 10 min | 3.65 | 10 min | 3.65 | 10 min | 3.64 |
| SC-164.01 | 10 min | 0.72 | 10 min | 0.72 | 10 min | 0.72 |
| SC-165.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.62 |
| SC-165.02 | 10 min | 1.60 | 10 min | 1.60 | 10 min | 1.60 |
| SC-165.03 | 10 min | 2.09 | 10 min | 2.09 | 10 min | 2.08 |
| SC-165.04 | 10 min | 4.46 | 10 min | 4.46 | 10 min | 4.45 |
| SC-165.05 | 10 min | 7.50 | 10 min | 7.50 | 10 min | 7.48 |
| SC-166.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-167.01 | 10 min | 0.85 | 10 min | 0.85 | 10 min | 0.85 |
| SC-167.02 | 10 min | 2.15 | 10 min | 2.15 | 10 min | 2.14 |
| SC-168.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.69 |
| SC-169.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.62 |
| SC-169.02 | 10 min | 1.16 | 10 min | 1.16 | 10 min | 1.16 |
| SC-169.03 | 10 min | 2.62 | 10 min | 2.62 | 10 min | 2.61 |
| SC-17.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.64 |
| SC-17.02 | 10 min | 1.10 | 10 min | 1.10 | 10 min | 1.10 |
| SC-17.03 | 10 min | 1.84 | 10 min | 1.84 | 10 min | 1.83 |
| SC-17.04 | 10 min | 4.38 | 10 min | 4.38 | 10 min | 4.37 |
| SC-17.05 | 10 min | 6.01 | 10 min | 6.01 | 10 min | 5.99 |
| SC-17.06 | 10 min | 6.75 | 10 min | 6.75 | 10 min | 6.73 |
| SC-17.07 | 10 min | 7.26 | 10 min | 7.26 | 10 min | 7.24 |
| SC-170.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.57 |
| SC-171.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-172.01 | 10 min | 0.82 | 10 min | 0.82 | 10 min | 0.82 |
| SC-172.02 | 10 min | 1.38 | 10 min | 1.38 | 10 min | 1.38 |
| SC-173.01 | 20 min | 0.89 | 20 min | 0.89 | 20 min | 0.88 |
| SC-173.02 | 20 min | 1.79 | 20 min | 1.79 | 20 min | 1.78 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-173.03 | 20 min | 1.85 | 20 min | 1.85 | 20 min | 1.84 |
| SC-173.04 | 10 min | 3.07 | 10 min | 3.07 | 10 min | 3.07 |
| SC-173.05 | 10 min | 3.58 | 10 min | 3.58 | 10 min | 3.57 |
| SC-174.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.52 |
| SC-175.01 | 10 min | 0.92 | 10 min | 0.92 | 10 min | 0.91 |
| SC-175.02 | 10 min | 1.86 | 10 min | 1.86 | 10 min | 1.85 |
| SC-175.03 | 10 min | 2.99 | 10 min | 2.99 | 10 min | 2.98 |
| SC-175.04 | 10 min | 3.67 | 10 min | 3.67 | 10 min | 3.66 |
| SC-175.05 | 10 min | 4.12 | 10 min | 4.12 | 10 min | 4.11 |
| SC-176.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.38 |
| SC-177.01 | 10 min | 0.51 | 10 min | 0.51 | 10 min | 0.51 |
| SC-177.02 | 10 min | 1.34 | 10 min | 1.34 | 10 min | 1.34 |
| SC-177.03 | 10 min | 3.68 | 10 min | 3.68 | 10 min | 3.67 |
| SC-177.04 | 10 min | 5.02 | 10 min | 5.02 | 10 min | 5.01 |
| SC-178.01 | 10 min | 1.12 | 10 min | 1.12 | 10 min | 1.11 |
| SC-178.02 | 10 min | 1.66 | 10 min | 1.66 | 10 min | 1.66 |
| SC-179.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.91 |
| SC-18.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.70 |
| SC-18.02 | 10 min | 1.11 | 10 min | 1.11 | 10 min | 1.10 |
| SC-180.01 | 10 min | 0.88 | 10 min | 0.88 | 10 min | 0.88 |
| SC-180.02 | 10 min | 1.49 | 10 min | 1.49 | 10 min | 1.49 |
| SC-180.03 | 10 min | 2.09 | 10 min | 2.09 | 10 min | 2.09 |
| SC-180.04 | 10 min | 3.02 | 10 min | 3.02 | 10 min | 3.02 |
| SC-181.01 | 20 min | 0.38 | 20 min | 0.38 | 20 min | 0.38 |
| SC-181.02 | 10 min | 1.25 | 10 min | 1.25 | 10 min | 1.25 |
| SC-181.03 | 10 min | 2.04 | 10 min | 2.04 | 10 min | 2.04 |
| SC-181.04 | 10 min | 3.79 | 10 min | 3.79 | 10 min | 3.78 |
| SC-181.05 | 10 min | 4.08 | 10 min | 4.08 | 10 min | 4.07 |
| SC-181.06 | 10 min | 4.55 | 10 min | 4.55 | 10 min | 4.54 |
| SC-181.07 | 10 min | 10.03 | 10 min | 10.03 | 10 min | 10.00 |
| SC-181.08 | 10 min | 10.40 | 10 min | 10.40 | 10 min | 10.37 |
| SC-182.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.62 |
| SC-182.02 | 10 min | 1.00 | 10 min | 1.00 | 10 min | 1.00 |
| SC-182.03 | 10 min | 1.56 | 10 min | 1.56 | 10 min | 1.56 |
| SC-183.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-183.02 | 10 min | 1.34 | 10 min | 1.34 | 10 min | 1.33 |
| SC-183.03 | 10 min | 3.32 | 10 min | 3.32 | 10 min | 3.31 |
| SC-183.04 | 10 min | 3.79 | 10 min | 3.79 | 10 min | 3.78 |
| SC-184.01 | 10 min | 1.43 | 10 min | 1.43 | 10 min | 1.43 |
| SC-185.01 | 10 min | 0.86 | 10 min | 0.86 | 10 min | 0.86 |
| SC-185.02 | 10 min | 1.89 | 10 min | 1.89 | 10 min | 1.88 |
| SC-186.01 | 10 min | 0.30 | 10 min | 0.30 | 10 min | 0.30 |
| SC-187.01 | 10 min | 0.87 | 10 min | 0.87 | 10 min | 0.86 |
| SC-187.02 | 10 min | 1.67 | 10 min | 1.67 | 10 min | 1.66 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-187.03 | 10 min | 1.97 | 10 min | 1.97 | 10 min | 1.96 |
| SC-187.04 | 10 min | 2.46 | 10 min | 2.46 | 10 min | 2.45 |
| SC-187.05 | 10 min | 2.93 | 10 min | 2.93 | 10 min | 2.92 |
| SC-188.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.91 |
| SC-188.02 | 10 min | 1.33 | 10 min | 1.33 | 10 min | 1.33 |
| SC-189.01 | 10 min | 1.03 | 10 min | 1.03 | 10 min | 1.03 |
| SC-189.02 | 10 min | 1.83 | 10 min | 1.83 | 10 min | 1.82 |
| SC-19.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-190.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.45 |
| SC-191.01 | 10 min | 0.83 | 10 min | 0.83 | 10 min | 0.83 |
| SC-191.02 | 10 min | 1.19 | 10 min | 1.19 | 10 min | 1.18 |
| SC-191.03 | 10 min | 2.18 | 10 min | 2.18 | 10 min | 2.17 |
| SC-191.04 | 10 min | 3.18 | 10 min | 3.19 | 10 min | 3.18 |
| SC-191.05 | 10 min | 4.45 | 10 min | 4.45 | 10 min | 4.43 |
| SC-191.06 | 10 min | 7.65 | 10 min | 7.65 | 10 min | 7.63 |
| SC-191.07 | 10 min | 9.11 | 10 min | 9.11 | 10 min | 9.09 |
| SC-191.08 | 10 min | 9.97 | 10 min | 9.97 | 10 min | 9.95 |
| SC-192.01 | 10 min | 2.59 | 10 min | 2.59 | 10 min | 2.58 |
| SC-193.01 | 10 min | 1.18 | 10 min | 1.18 | 10 min | 1.18 |
| SC-194.01 | 10 min | 1.18 | 10 min | 1.18 | 10 min | 1.18 |
| SC-194.02 | 20 min | 4.77 | 20 min | 4.79 | 20 min | 4.75 |
| SC-194.03 | 20 min | 4.95 | 20 min | 4.96 | 20 min | 4.93 |
| SC-195.01 | 20 min | 1.67 | 20 min | 1.68 | 20 min | 1.66 |
| SC-196.01 | 10 min | 3.86 | 10 min | 3.86 | 10 min | 3.85 |
| SC-197.01 | 10 min | 2.47 | 10 min | 2.47 | 10 min | 2.47 |
| SC-198.01 | 20 min | 2.40 | 20 min | 2.40 | 20 min | 2.39 |
| SC-2.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.53 |
| SC-20.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-200.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.80 |
| SC-200.02 | 10 min | 1.41 | 10 min | 1.41 | 10 min | 1.40 |
| SC-200.03 | 10 min | 2.63 | 10 min | 2.63 | 10 min | 2.62 |
| SC-200.04 | 10 min | 3.84 | 10 min | 3.84 | 10 min | 3.83 |
| SC-200.05 | 10 min | 6.29 | 10 min | 6.29 | 10 min | 6.28 |
| SC-200.06 | 10 min | 9.51 | 10 min | 9.52 | 10 min | 9.48 |
| SC-200.07 | 10 min | 11.17 | 10 min | 11.18 | 10 min | 11.14 |
| SC-200.08 | 10 min | 12.58 | 10 min | 12.60 | 10 min | 12.54 |
| SC-200.09 | 15 min | 18.58 | 15 min | 18.62 | 15 min | 18.52 |
| SC-201.01 | 10 min | 1.02 | 10 min | 1.02 | 10 min | 1.02 |
| SC-202.01 | 10 min | 1.05 | 10 min | 1.05 | 10 min | 1.05 |
| SC-203.01 | 10 min | 1.04 | 10 min | 1.04 | 10 min | 1.03 |
| SC-204.01 | 10 min | 1.36 | 10 min | 1.36 | 10 min | 1.35 |
| SC-205.01 | 20 min | 0.55 | 20 min | 0.55 | 20 min | 0.55 |
| SC-206.01 | 10 min | 4.38 | 10 min | 4.39 | 10 min | 4.36 |
| SC-207.01 | 10 min | 0.98 | 10 min | 0.98 | 10 min | 0.97 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-207.02 | 10 min | 1.89 | 10 min | 1.89 | 10 min | 1.89 |
| SC-207.03 | 10 min | 2.11 | 10 min | 2.11 | 10 min | 2.10 |
| SC-207.04 | 10 min | 5.77 | 10 min | 5.77 | 10 min | 5.76 |
| SC-207.05 | 10 min | 7.61 | 10 min | 7.61 | 10 min | 7.59 |
| SC-207.06 | 10 min | 8.34 | 10 min | 8.34 | 10 min | 8.32 |
| SC-207.07 | 10 min | 13.97 | 10 min | 13.98 | 10 min | 13.93 |
| SC-207.08 | 10 min | 20.74 | 10 min | 20.75 | 10 min | 20.68 |
| SC-207.09 | 10 min | 23.77 | 10 min | 23.79 | 10 min | 23.71 |
| SC-207.10 | 15 min | 24.60 | 15 min | 24.62 | 15 min | 24.52 |
| SC-207.11 | 15 min | 26.60 | 15 min | 26.63 | 15 min | 26.52 |
| SC-207.12 | 15 min | 38.54 | 15 min | 38.58 | 15 min | 38.42 |
| SC-207.13 | 15 min | 40.73 | 15 min | 40.77 | 15 min | 40.61 |
| SC-207.14 | 15 min | 41.81 | 15 min | 41.86 | 15 min | 41.68 |
| SC-208.01 | 10 min | 1.08 | 10 min | 1.08 | 10 min | 1.07 |
| SC-208.02 | 10 min | 1.51 | 10 min | 1.51 | 10 min | 1.51 |
| SC-208.03 | 10 min | 2.00 | 10 min | 2.00 | 10 min | 2.00 |
| SC-208.04 | 10 min | 3.12 | 10 min | 3.12 | 10 min | 3.11 |
| SC-208.05 | 10 min | 3.57 | 10 min | 3.57 | 10 min | 3.56 |
| SC-209.01 | 10 min | 0.66 | 10 min | 0.66 | 10 min | 0.66 |
| SC-21.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.80 |
| SC-210.01 | 10 min | 1.49 | 10 min | 1.49 | 10 min | 1.49 |
| SC-210.02 | 10 min | 2.04 | 10 min | 2.04 | 10 min | 2.04 |
| SC-211.01 | 20 min | 0.56 | 20 min | 0.56 | 20 min | 0.56 |
| SC-211.02 | 25 min | 1.25 | 25 min | 1.25 | 25 min | 1.24 |
| SC-211.03 | 20 min | 1.92 | 20 min | 1.93 | 20 min | 1.91 |
| SC-211.04 | 20 min | 2.29 | 20 min | 2.30 | 20 min | 2.28 |
| SC-212.01 | 1 hour | 0.21 | 1 hour | 0.21 | 1 hour | 0.21 |
| SC-212.02 | 20 min | 0.43 | 20 min | 0.43 | 20 min | 0.43 |
| SC-213.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.61 |
| SC-213.02 | 10 min | 1.02 | 10 min | 1.02 | 10 min | 1.02 |
| SC-214.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.75 |
| SC-214.02 | 10 min | 1.64 | 10 min | 1.64 | 10 min | 1.64 |
| SC-215.01 | 10 min | 0.60 | 10 min | 0.60 | 10 min | 0.60 |
| SC-215.02 | 10 min | 1.08 | 10 min | 1.08 | 10 min | 1.08 |
| SC-216.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.57 |
| SC-216.02 | 10 min | 1.73 | 10 min | 1.73 | 10 min | 1.73 |
| SC-216.03 | 10 min | 2.69 | 10 min | 2.69 | 10 min | 2.69 |
| SC-216.04 | 10 min | 3.73 | 10 min | 3.73 | 10 min | 3.72 |
| SC-217.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-218.01 | 10 min | 0.31 | 10 min | 0.31 | 10 min | 0.31 |
| SC-219.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-22.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.44 |
| SC-220.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.62 |
| SC-221.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.58 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-221.02 | 10 min | 1.23 | 10 min | 1.23 | 10 min | 1.23 |
| SC-221.03 | 10 min | 1.51 | 10 min | 1.51 | 10 min | 1.51 |
| SC-221.04 | 10 min | 2.21 | 10 min | 2.21 | 10 min | 2.20 |
| SC-221.05 | 10 min | 2.86 | 10 min | 2.86 | 10 min | 2.85 |
| SC-221.06 | 10 min | 2.99 | 10 min | 2.99 | 10 min | 2.98 |
| SC-222.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.63 |
| SC-222.02 | 10 min | 0.98 | 10 min | 0.98 | 10 min | 0.98 |
| SC-222.03 | 10 min | 2.17 | 10 min | 2.17 | 10 min | 2.16 |
| SC-223.01 | 10 min | 0.27 | 10 min | 0.27 | 10 min | 0.27 |
| SC-224.01 | 15 min | 0.71 | 15 min | 0.71 | 15 min | 0.70 |
| SC-225.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.49 |
| SC-226.01 | 10 min | 0.37 | 10 min | 0.37 | 10 min | 0.37 |
| SC-226.02 | 10 min | 0.85 | 10 min | 0.85 | 10 min | 0.85 |
| SC-226.03 | 10 min | 1.75 | 10 min | 1.75 | 10 min | 1.74 |
| SC-226.04 | 10 min | 2.63 | 10 min | 2.64 | 10 min | 2.63 |
| SC-226.05 | 10 min | 10.48 | 10 min | 10.48 | 10 min | 10.45 |
| SC-226.06 | 10 min | 11.44 | 10 min | 11.44 | 10 min | 11.41 |
| SC-226.07 | 10 min | 12.46 | 10 min | 12.46 | 10 min | 12.43 |
| SC-226.08 | 10 min | 13.12 | 10 min | 13.12 | 10 min | 13.08 |
| SC-227.01 | 10 min | 0.19 | 10 min | 0.19 | 10 min | 0.19 |
| SC-228.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-229.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.29 |
| SC-23.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-23.02 | 10 min | 1.71 | 10 min | 1.71 | 10 min | 1.70 |
| SC-23.03 | 10 min | 2.09 | 10 min | 2.09 | 10 min | 2.09 |
| SC-230.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.28 |
| SC-231.01 | 10 min | 0.31 | 10 min | 0.31 | 10 min | 0.31 |
| SC-232.01 | 10 min | 0.77 | 10 min | 0.77 | 10 min | 0.77 |
| SC-232.02 | 10 min | 1.22 | 10 min | 1.22 | 10 min | 1.22 |
| SC-232.03 | 10 min | 2.85 | 10 min | 2.85 | 10 min | 2.84 |
| SC-233.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-233.02 | 10 min | 0.90 | 10 min | 0.90 | 10 min | 0.90 |
| SC-234.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.80 |
| SC-234.02 | 10 min | 1.53 | 10 min | 1.53 | 10 min | 1.52 |
| SC-234.03 | 10 min | 4.50 | 10 min | 4.50 | 10 min | 4.49 |
| SC-235.01 | 10 min | 0.30 | 10 min | 0.30 | 10 min | 0.30 |
| SC-236.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.38 |
| SC-236.02 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.58 |
| SC-237.01 | 10 min | 0.51 | 10 min | 0.51 | 10 min | 0.51 |
| SC-237.02 | 10 min | 1.04 | 10 min | 1.04 | 10 min | 1.04 |
| SC-238.01 | 10 min | 0.33 | 10 min | 0.33 | 10 min | 0.33 |
| SC-238.02 | 10 min | 0.75 | 10 min | 0.75 | 10 min | 0.75 |
| SC-239.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.42 |
| SC-24.01 | 10 min | 0.51 | 10 min | 0.51 | 10 min | 0.51 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-240.01 | 20 min | 1.10 | 20 min | 1.10 | 20 min | 1.09 |
| SC-240.02 | 20 min | 1.56 | 20 min | 1.57 | 20 min | 1.56 |
| SC-241.01 | 15 min | 4.53 | 15 min | 4.54 | 15 min | 4.51 |
| SC-242.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-242.02 | 10 min | 1.50 | 10 min | 1.50 | 10 min | 1.49 |
| SC-242.03 | 10 min | 2.22 | 10 min | 2.22 | 10 min | 2.22 |
| SC-242.04 | 10 min | 2.36 | 10 min | 2.36 | 10 min | 2.35 |
| SC-242.05 | 10 min | 5.23 | 10 min | 5.23 | 10 min | 5.22 |
| SC-242.06 | 10 min | 6.67 | 10 min | 6.67 | 10 min | 6.65 |
| SC-242.07 | 10 min | 7.14 | 10 min | 7.14 | 10 min | 7.12 |
| SC-242.08 | 10 min | 14.04 | 10 min | 14.06 | 10 min | 14.00 |
| SC-243.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-243.02 | 10 min | 2.04 | 10 min | 2.04 | 10 min | 2.03 |
| SC-244.01 | 10 min | 0.79 | 10 min | 0.79 | 10 min | 0.79 |
| SC-245.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.41 |
| SC-246.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.28 |
| SC-246.02 | 10 min | 0.72 | 10 min | 0.72 | 10 min | 0.72 |
| SC-247.01 | 10 min | 0.75 | 10 min | 0.75 | 10 min | 0.75 |
| SC-247.02 | 10 min | 1.89 | 10 min | 1.89 | 10 min | 1.88 |
| SC-248.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.93 |
| SC-249.01 | 20 min | 0.22 | 20 min | 0.22 | 20 min | 0.21 |
| SC-249.02 | 20 min | 0.63 | 20 min | 0.63 | 20 min | 0.63 |
| SC-249.03 | 10 min | 1.29 | 10 min | 1.29 | 10 min | 1.29 |
| SC-249.04 | 10 min | 3.25 | 10 min | 3.25 | 10 min | 3.25 |
| SC-249.05 | 10 min | 9.49 | 10 min | 9.49 | 10 min | 9.47 |
| SC-249.06 | 10 min | 16.08 | 10 min | 16.10 | 10 min | 16.03 |
| SC-25.01 | 10 min | 1.56 | 10 min | 1.56 | 10 min | 1.56 |
| SC-25.02 | 10 min | 2.19 | 10 min | 2.19 | 10 min | 2.18 |
| SC-25.03 | 10 min | 2.38 | 10 min | 2.38 | 10 min | 2.38 |
| SC-25.04 | 10 min | 4.00 | 10 min | 4.00 | 10 min | 3.99 |
| SC-250.01 | 10 min | 0.18 | 10 min | 0.18 | 10 min | 0.18 |
| SC-251.01 | 10 min | 0.43 | 10 min | 0.43 | 10 min | 0.43 |
| SC-252.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.49 |
| SC-252.02 | 10 min | 0.92 | 10 min | 0.92 | 10 min | 0.92 |
| SC-253.01 | 10 min | 0.74 | 10 min | 0.74 | 10 min | 0.74 |
| SC-253.02 | 10 min | 2.64 | 10 min | 2.64 | 10 min | 2.64 |
| SC-253.03 | 10 min | 3.23 | 10 min | 3.23 | 10 min | 3.22 |
| SC-254.01 | 10 min | 0.74 | 10 min | 0.74 | 10 min | 0.74 |
| SC-255.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.69 |
| SC-256.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.61 |
| SC-257.01 | 10 min | 0.35 | 10 min | 0.35 | 10 min | 0.34 |
| SC-258.01 | 10 min | 1.58 | 10 min | 1.58 | 10 min | 1.57 |
| SC-258.02 | 10 min | 2.63 | 10 min | 2.63 | 10 min | 2.62 |
| SC-259.01 | 10 min | 0.68 | 10 min | 0.68 | 10 min | 0.68 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-259.02 | 10 min | 1.40 | 10 min | 1.40 | 10 min | 1.40 |
| SC-259.03 | 10 min | 1.99 | 10 min | 1.99 | 10 min | 1.99 |
| SC-259.04 | 10 min | 3.62 | 10 min | 3.62 | 10 min | 3.61 |
| SC-259.05 | 10 min | 4.41 | 10 min | 4.42 | 10 min | 4.40 |
| SC-259.06 | 10 min | 5.69 | 10 min | 5.69 | 10 min | 5.68 |
| SC-259.07 | 10 min | 7.17 | 10 min | 7.17 | 10 min | 7.15 |
| SC-259.08 | 10 min | 8.57 | 10 min | 8.57 | 10 min | 8.54 |
| SC-259.09 | 10 min | 22.34 | 10 min | 22.36 | 10 min | 22.28 |
| SC-259.10 | 10 min | 22.72 | 10 min | 22.74 | 10 min | 22.65 |
| SC-26.01 | 10 min | 0.48 | 10 min | 0.48 | 10 min | 0.47 |
| SC-260.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.45 |
| SC-261.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.57 |
| SC-262.01 | 10 min | 0.66 | 10 min | 0.66 | 10 min | 0.66 |
| SC-262.02 | 10 min | 1.19 | 10 min | 1.19 | 10 min | 1.18 |
| SC-263.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.69 |
| SC-264.01 | 10 min | 0.39 | 10 min | 0.39 | 10 min | 0.39 |
| SC-265.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.50 |
| SC-265.02 | 20 min | 1.20 | 20 min | 1.21 | 20 min | 1.20 |
| SC-265.03 | 15 min | 2.08 | 15 min | 2.08 | 15 min | 2.07 |
| SC-265.04 | 10 min | 10.21 | 10 min | 10.22 | 10 min | 10.18 |
| SC-266.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.64 |
| SC-266.02 | 10 min | 1.22 | 10 min | 1.22 | 10 min | 1.21 |
| SC-266.03 | 10 min | 1.47 | 10 min | 1.47 | 10 min | 1.47 |
| SC-266.04 | 10 min | 5.60 | 10 min | 5.60 | 10 min | 5.58 |
| SC-266.05 | 10 min | 6.48 | 10 min | 6.48 | 10 min | 6.46 |
| SC-267.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.62 |
| SC-268.01 | 10 min | 1.04 | 10 min | 1.04 | 10 min | 1.04 |
| SC-268.02 | 10 min | 2.70 | 10 min | 2.70 | 10 min | 2.69 |
| SC-269.01 | 20 min | 0.43 | 20 min | 0.43 | 20 min | 0.43 |
| SC-27.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.49 |
| SC-270.01 | 20 min | 0.47 | 20 min | 0.47 | 20 min | 0.46 |
| SC-271.01 | 15 min | 0.29 | 15 min | 0.29 | 15 min | 0.28 |
| SC-272.01 | 20 min | 0.71 | 20 min | 0.71 | 20 min | 0.71 |
| SC-272.02 | 20 min | 1.45 | 20 min | 1.45 | 20 min | 1.44 |
| SC-272.03 | 10 min | 2.58 | 10 min | 2.58 | 10 min | 2.57 |
| SC-273.01 | 10 min | 0.73 | 10 min | 0.73 | 10 min | 0.73 |
| SC-274.01 | 20 min | 0.36 | 20 min | 0.36 | 20 min | 0.36 |
| SC-274.02 | 10 min | 1.44 | 10 min | 1.44 | 10 min | 1.44 |
| SC-274.03 | 10 min | 3.48 | 10 min | 3.49 | 10 min | 3.48 |
| SC-274.04 | 10 min | 4.49 | 10 min | 4.49 | 10 min | 4.47 |
| SC-274.05 | 10 min | 5.81 | 10 min | 5.81 | 10 min | 5.80 |
| SC-275.01 | 10 min | 0.68 | 10 min | 0.68 | 10 min | 0.68 |
| SC-276.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.49 |
| SC-277.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.62 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-278.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.38 |
| SC-278.02 | 10 min | 5.04 | 10 min | 5.06 | 10 min | 5.03 |
| SC-279.01 | 10 min | 0.66 | 10 min | 0.66 | 10 min | 0.66 |
| SC-279.02 | 10 min | 4.81 | 10 min | 4.82 | 10 min | 4.79 |
| SC-28.01 | 20 min | 0.41 | 20 min | 0.42 | 20 min | 0.41 |
| SC-28.02 | 20 min | 0.92 | 20 min | 0.92 | 20 min | 0.92 |
| SC-28.03 | 20 min | 1.29 | 20 min | 1.29 | 20 min | 1.29 |
| SC-28.04 | 10 min | 2.82 | 10 min | 2.82 | 10 min | 2.81 |
| SC-280.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.62 |
| SC-29.01 | 10 min | 0.48 | 10 min | 0.48 | 10 min | 0.47 |
| SC-29.02 | 10 min | 1.29 | 10 min | 1.29 | 10 min | 1.29 |
| SC-3.01 | 10 min | 0.55 | 10 min | 0.55 | 10 min | 0.55 |
| SC-3.02 | 15 min | 1.73 | 15 min | 1.73 | 15 min | 1.73 |
| SC-30.01 | 10 min | 0.85 | 10 min | 0.85 | 10 min | 0.85 |
| SC-30.02 | 10 min | 1.52 | 10 min | 1.52 | 10 min | 1.52 |
| SC-30.03 | 10 min | 2.10 | 10 min | 2.10 | 10 min | 2.10 |
| SC-30.04 | 10 min | 2.66 | 10 min | 2.66 | 10 min | 2.66 |
| SC-31.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.55 |
| SC-31.02 | 10 min | 1.15 | 10 min | 1.15 | 10 min | 1.15 |
| SC-32.01 | 15 min | 0.48 | 15 min | 0.48 | 15 min | 0.48 |
| SC-32.02 | 15 min | 0.71 | 15 min | 0.71 | 15 min | 0.71 |
| SC-33.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.71 |
| SC-33.02 | 10 min | 1.61 | 10 min | 1.61 | 10 min | 1.61 |
| SC-34.01 | 10 min | 0.55 | 10 min | 0.55 | 10 min | 0.55 |
| SC-34.02 | 10 min | 1.11 | 10 min | 1.11 | 10 min | 1.11 |
| SC-34.03 | 10 min | 1.32 | 10 min | 1.32 | 10 min | 1.31 |
| SC-35.01 | 10 min | 0.52 | 10 min | 0.52 | 10 min | 0.52 |
| SC-35.02 | 10 min | 1.39 | 10 min | 1.39 | 10 min | 1.39 |
| SC-35.03 | 10 min | 2.22 | 10 min | 2.22 | 10 min | 2.21 |
| SC-35.04 | 10 min | 2.37 | 10 min | 2.37 | 10 min | 2.37 |
| SC-36.01 | 10 min | 1.08 | 10 min | 1.08 | 10 min | 1.08 |
| SC-36.02 | 10 min | 1.95 | 10 min | 1.95 | 10 min | 1.94 |
| SC-37.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.41 |
| SC-37.02 | 10 min | 1.15 | 10 min | 1.16 | 10 min | 1.15 |
| SC-38.01 | 10 min | 0.48 | 10 min | 0.48 | 10 min | 0.48 |
| SC-39.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.28 |
| SC-4.01 | 20 min | 0.61 | 20 min | 0.61 | 20 min | 0.61 |
| SC-40.01 | 10 min | 0.66 | 10 min | 0.66 | 10 min | 0.66 |
| SC-41.01 | 10 min | 0.44 | 10 min | 0.44 | 10 min | 0.43 |
| SC-42.01 | 10 min | 1.48 | 10 min | 1.48 | 10 min | 1.47 |
| SC-43.01 | 10 min | 0.32 | 10 min | 0.32 | 10 min | 0.32 |
| SC-44.01 | 10 min | 1.01 | 10 min | 1.01 | 10 min | 1.01 |
| SC-44.02 | 10 min | 1.58 | 10 min | 1.58 | 10 min | 1.58 |
| SC-44.03 | 10 min | 2.17 | 10 min | 2.17 | 10 min | 2.17 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-44.04 | 10 min | 3.35 | 10 min | 3.35 | 10 min | 3.34 |
| SC-44.05 | 10 min | 5.80 | 10 min | 5.80 | 10 min | 5.79 |
| SC-44.06 | 10 min | 6.13 | 10 min | 6.13 | 10 min | 6.12 |
| SC-44.07 | 10 min | 6.82 | 10 min | 6.82 | 10 min | 6.80 |
| SC-44.08 | 10 min | 8.82 | 10 min | 8.82 | 10 min | 8.79 |
| SC-44.09 | 10 min | 9.12 | 10 min | 9.12 | 10 min | 9.09 |
| SC-44.10 | 12 hours | 2.42 | 12 hours | 2.44 | 12 hours | 2.10 |
| SC-44.11 | 45 min | 12.48 | 45 min | 12.50 | 45 min | 12.42 |
| SC-44.12 | 12 hours | 5.67 | 12 hours | 5.73 | 12 hours | 5.18 |
| SC-44.13 | 12 hours | 5.75 | 12 hours | 5.81 | 12 hours | 5.23 |
| SC-44.14 | 12 hours | 6.49 | 12 hours | 6.56 | 12 hours | 5.83 |
| SC-44.15 | 12 hours | 4.64 | 12 hours | 4.74 | 12 hours | 3.48 |
| SC-44.16 | 12 hours | 4.66 | 12 hours | 4.75 | 12 hours | 3.50 |
| SC-44.17 | 15 min | 8.32 | 15 min | 8.32 | 15 min | 8.30 |
| SC-44.18 | 15 min | 8.86 | 15 min | 8.87 | 15 min | 8.84 |
| SC-44.19 | 15 min | 10.10 | 15 min | 10.11 | 15 min | 10.07 |
| SC-44.20 | 25 min | 9.34 | 25 min | 9.35 | 25 min | 9.32 |
| SC-45.01 | 10 min | 0.74 | 10 min | 0.74 | 10 min | 0.74 |
| SC-46.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.61 |
| SC-46.02 | 10 min | 1.03 | 10 min | 1.03 | 10 min | 1.03 |
| SC-46.03 | 10 min | 1.55 | 10 min | 1.55 | 10 min | 1.55 |
| SC-46.04 | 10 min | 1.74 | 10 min | 1.74 | 10 min | 1.74 |
| SC-47.01 | 10 min | 0.99 | 10 min | 0.99 | 10 min | 0.99 |
| SC-48.01 | 10 min | 0.75 | 10 min | 0.75 | 10 min | 0.75 |
| SC-48.02 | 10 min | 1.17 | 10 min | 1.18 | 10 min | 1.17 |
| SC-49.01 | 10 min | 0.84 | 10 min | 0.84 | 10 min | 0.84 |
| SC-5.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.52 |
| SC-50.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.28 |
| SC-51.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.29 |
| SC-52.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.29 |
| SC-53.01 | 10 min | 0.72 | 10 min | 0.72 | 10 min | 0.72 |
| SC-53.02 | 10 min | 1.45 | 10 min | 1.45 | 10 min | 1.45 |
| SC-53.03 | 10 min | 1.76 | 10 min | 1.76 | 10 min | 1.76 |
| SC-54.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.58 |
| SC-54.02 | 10 min | 1.10 | 10 min | 1.10 | 10 min | 1.10 |
| SC-55.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.91 |
| SC-56.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.42 |
| SC-57.01 | 10 min | 0.31 | 10 min | 0.31 | 10 min | 0.31 |
| SC-58.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-59.01 | 10 min | 0.79 | 10 min | 0.79 | 10 min | 0.79 |
| SC-59.02 | 10 min | 1.49 | 10 min | 1.49 | 10 min | 1.49 |
| SC-59.03 | 10 min | 2.18 | 10 min | 2.18 | 10 min | 2.17 |
| SC-59.04 | 10 min | 2.82 | 10 min | 2.82 | 10 min | 2.82 |
| SC-59.05 | 10 min | 5.96 | 10 min | 5.97 | 10 min | 5.95 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-59.06 | 10 min | 6.84 | 10 min | 6.84 | 10 min | 6.82 |
| SC-59.07 | 10 min | 11.45 | 10 min | 11.46 | 10 min | 11.42 |
| SC-59.08 | 15 min | 11.49 | 15 min | 11.50 | 15 min | 11.45 |
| SC-59.09 | 15 min | 14.04 | 15 min | 14.05 | 15 min | 13.99 |
| SC-59.10 | 25 min | 12.35 | 25 min | 12.37 | 25 min | 12.27 |
| SC-6.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.68 |
| SC-60.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.53 |
| SC-60.02 | 10 min | 2.10 | 10 min | 2.11 | 10 min | 2.10 |
| SC-61.01 | 10 min | 1.10 | 10 min | 1.10 | 10 min | 1.09 |
| SC-62.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.70 |
| SC-63.01 | 10 min | 0.40 | 10 min | 0.40 | 10 min | 0.40 |
| SC-64.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.53 |
| SC-64.02 | 10 min | 1.76 | 10 min | 1.76 | 10 min | 1.75 |
| SC-64.03 | 10 min | 3.31 | 10 min | 3.31 | 10 min | 3.30 |
| SC-64.04 | 10 min | 4.60 | 10 min | 4.60 | 10 min | 4.59 |
| SC-65.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-66.01 | 10 min | 0.32 | 10 min | 0.32 | 10 min | 0.32 |
| SC-66.02 | 15 min | 0.72 | 15 min | 0.72 | 15 min | 0.72 |
| SC-67.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-68.01 | 10 min | 0.81 | 10 min | 0.81 | 10 min | 0.81 |
| SC-68.02 | 10 min | 1.52 | 10 min | 1.52 | 10 min | 1.52 |
| SC-68.03 | 10 min | 2.77 | 10 min | 2.77 | 10 min | 2.77 |
| SC-69.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.70 |
| SC-7.01 | 10 min | 0.90 | 10 min | 0.90 | 10 min | 0.90 |
| SC-70.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.64 |
| SC-70.02 | 10 min | 1.02 | 10 min | 1.02 | 10 min | 1.02 |
| SC-71.01 | 10 min | 0.81 | 10 min | 0.81 | 10 min | 0.80 |
| SC-71.02 | 10 min | 1.53 | 10 min | 1.53 | 10 min | 1.53 |
| SC-72.01 | 10 min | 0.87 | 10 min | 0.87 | 10 min | 0.87 |
| SC-73.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.70 |
| SC-74.01 | 10 min | 0.81 | 10 min | 0.81 | 10 min | 0.81 |
| SC-75.01 | 10 min | 0.47 | 10 min | 0.47 | 10 min | 0.47 |
| SC-75.02 | 10 min | 1.91 | 10 min | 1.91 | 10 min | 1.91 |
| SC-75.03 | 10 min | 2.72 | 10 min | 2.72 | 10 min | 2.71 |
| SC-75.04 | 10 min | 4.69 | 10 min | 4.69 | 10 min | 4.68 |
| SC-76.01 | 10 min | 0.65 | 10 min | 0.65 | 10 min | 0.65 |
| SC-77.01 | 10 min | 0.96 | 10 min | 0.96 | 10 min | 0.95 |
| SC-77.02 | 10 min | 1.45 | 10 min | 1.45 | 10 min | 1.44 |
| SC-77.03 | 10 min | 2.01 | 10 min | 2.01 | 10 min | 2.00 |
| SC-78.01 | 10 min | 0.90 | 10 min | 0.90 | 10 min | 0.90 |
| SC-79.01 | 10 min | 0.96 | 10 min | 0.96 | 10 min | 0.96 |
| SC-79.02 | 10 min | 1.78 | 10 min | 1.78 | 10 min | 1.78 |
| SC-79.03 | 10 min | 3.90 | 10 min | 3.90 | 10 min | 3.89 |
| SC-8.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.76 |

## Continuing Loss Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-8.02 | 10 min | 1.82 | 10 min | 1.82 | 10 min | 1.82 |
| SC-8.03 | 10 min | 4.76 | 10 min | 4.76 | 10 min | 4.75 |
| SC-8.04 | 10 min | 8.34 | 10 min | 8.34 | 10 min | 8.32 |
| SC-8.05 | 10 min | 9.11 | 10 min | 9.11 | 10 min | 9.09 |
| SC-8.06 | 10 min | 9.46 | 10 min | 9.46 | 10 min | 9.44 |
| SC-80.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.94 |
| SC-80.02 | 10 min | 1.86 | 10 min | 1.86 | 10 min | 1.86 |
| SC-81.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.70 |
| SC-81.02 | 10 min | 2.07 | 10 min | 2.07 | 10 min | 2.06 |
| SC-82.01 | 10 min | 0.84 | 10 min | 0.84 | 10 min | 0.83 |
| SC-83.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.53 |
| SC-84.01 | 10 min | 0.79 | 10 min | 0.79 | 10 min | 0.78 |
| SC-84.02 | 10 min | 1.92 | 10 min | 1.92 | 10 min | 1.92 |
| SC-84.03 | 10 min | 2.54 | 10 min | 2.54 | 10 min | 2.54 |
| SC-84.04 | 10 min | 3.01 | 10 min | 3.01 | 10 min | 3.00 |
| SC-84.05 | 10 min | 3.56 | 10 min | 3.57 | 10 min | 3.56 |
| SC-84.06 | 10 min | 3.93 | 10 min | 3.93 | 10 min | 3.92 |
| SC-85.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.49 |
| SC-86.01 | 10 min | 0.75 | 10 min | 0.75 | 10 min | 0.75 |
| SC-86.02 | 10 min | 1.44 | 10 min | 1.44 | 10 min | 1.43 |
| SC-87.01 | 10 min | 1.10 | 10 min | 1.10 | 10 min | 1.09 |
| SC-87.02 | 10 min | 1.84 | 10 min | 1.84 | 10 min | 1.83 |
| SC-88.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.49 |
| SC-88.02 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.79 |
| SC-89.01 | 10 min | 0.54 | 10 min | 0.54 | 10 min | 0.54 |
| SC-89.02 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-9.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.70 |
| SC-90.01 | 10 min | 0.21 | 10 min | 0.21 | 10 min | 0.21 |
| SC-91.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.64 |
| SC-91.02 | 10 min | 1.31 | 10 min | 1.31 | 10 min | 1.31 |
| SC-92.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.63 |
| SC-92.02 | 10 min | 1.75 | 10 min | 1.75 | 10 min | 1.74 |
| SC-93.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.68 |
| SC-94.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.76 |
| SC-94.02 | 10 min | 1.75 | 10 min | 1.75 | 10 min | 1.75 |
| SC-95.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.45 |
| SC-95.02 | 10 min | 1.09 | 10 min | 1.09 | 10 min | 1.09 |
| SC-96.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.50 |
| SC-97.01 | 10 min | 0.34 | 10 min | 0.34 | 10 min | 0.34 |
| SC-97.02 | 10 min | 1.94 | 10 min | 1.94 | 10 min | 1.93 |
| SC-98.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-99.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.57 |
| SC-99.02 | 10 min | 1.54 | 10 min | 1.54 | 10 min | 1.53 |
| SC-99.03 | 10 min | 2.64 | 10 min | 2.64 | 10 min | 2.63 |

| Continuing Loss Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Continuing Loss Sensitivity Results | | | |
| | | | CL Reduced by 0.5mm/hr | | CL Increased by 0.5mm/hr | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-99.04 | 10 min | 7.03 | 10 min | 7.03 | 10 min | 7.01 |
| Dummy1 | 15 min | 35.32 | 15 min | 35.37 | 15 min | 35.22 |
| Dummy2 | 25 min | 55.39 | 25 min | 55.50 | 25 min | 55.17 |
| Dummy3 | 30 min | 106.76 | 30 min | 106.93 | 30 min | 106.32 |
| DummyOut | 1.50 hour | 113.93 | 1.50 hour | 114.33 | 1.50 hour | 112.96 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 10 min | 0.93 | 10 min | 0.81 | 20 min | 1.12 |
| SC-1.02 | 10 min | 2.00 | 10 min | 1.79 | 20 min | 2.43 |
| SC-1.03 | 10 min | 2.38 | 10 min | 2.09 | 20 min | 2.86 |
| SC-1.04 | 10 min | 6.27 | 10 min | 5.81 | 20 min | 7.91 |
| SC-1.05 | 10 min | 6.82 | 10 min | 6.18 | 20 min | 8.31 |
| SC-1.06 | 10 min | 7.79 | 10 min | 7.21 | 20 min | 9.41 |
| SC-1.07 | 10 min | 7.91 | 10 min | 7.31 | 20 min | 9.44 |
| SC-1.08 | 45 min | 8.71 | 45 min | 8.23 | 45 min | 9.53 |
| SC-1.09 | 45 min | 9.35 | 45 min | 9.10 | 45 min | 10.20 |
| SC-1.10 | 45 min | 9.36 | 45 min | 9.23 | 45 min | 10.23 |
| SC-1.11 | 10 min | 13.59 | 10 min | 13.24 | 20 min | 15.93 |
| SC-1.12 | 10 min | 16.99 | 10 min | 16.52 | 20 min | 19.44 |
| SC-1.13 | 10 min | 19.43 | 10 min | 19.00 | 20 min | 21.29 |
| SC-1.14 | 10 min | 23.13 | 10 min | 22.87 | 20 min | 25.00 |
| SC-1.15 | 10 min | 25.02 | 10 min | 25.00 | 20 min | 27.26 |
| SC-1.16 | 15 min | 28.64 | 20 min | 26.60 | 60 min | 29.83 |
| SC-1.17 | 15 min | 28.95 | 20 min | 27.14 | 60 min | 30.38 |
| SC-1.18 | 30 min | 18.10 | 20 min | 17.65 | 60 min | 19.32 |
| SC-1.19 | 1 hour | 22.75 | 60 min | 22.21 | 60 min | 22.65 |
| SC-1.20 | 1 hour | 20.73 | 60 min | 20.70 | 60 min | 21.12 |
| SC-1.21 | 1 hour | 20.74 | 60 min | 20.72 | 60 min | 21.14 |
| SC-1.22 | 1.50 hour | 20.92 | 60 min | 20.79 | 60 min | 21.23 |
| SC-1.23 | 1.50 hour | 23.45 | 120 min | 22.59 | 20 min | 24.98 |
| SC-1.24 | 20 min | 31.77 | 10 min | 30.90 | 20 min | 37.26 |
| SC-1.25 | 25 min | 32.54 | 10 min | 31.05 | 20 min | 37.39 |
| SC-1.26 | 25 min | 35.37 | 20 min | 32.92 | 45 min | 38.95 |
| SC-1.27 | 25 min | 35.95 | 20 min | 33.48 | 45 min | 39.68 |
| SC-1.28 | 15 min | 47.23 | 20 min | 46.32 | 60 min | 51.53 |
| SC-1.29 | 25 min | 49.56 | 20 min | 50.15 | 60 min | 54.72 |
| SC-1.30 | 25 min | 50.66 | 20 min | 50.99 | 60 min | 55.37 |
| SC-1.31 | 25 min | 51.58 | 20 min | 51.48 | 60 min | 55.81 |
| SC-1.32 | 25 min | 52.64 | 20 min | 52.16 | 45 min | 56.54 |
| SC-1.33 | 30 min | 54.45 | 20 min | 52.99 | 45 min | 57.70 |
| SC-1.34 | 30 min | 54.52 | 20 min | 53.04 | 60 min | 58.00 |
| SC-1.35 | 30 min | 54.65 | 20 min | 53.14 | 60 min | 58.45 |
| SC-1.36 | 30 min | 57.49 | 20 min | 53.68 | 60 min | 61.33 |
| SC-10.01 | 10 min | 0.97 | 10 min | 0.84 | 20 min | 1.08 |
| SC-100.01 | 10 min | 1.14 | 10 min | 1.00 | 20 min | 1.23 |
| SC-100.02 | 10 min | 1.95 | 10 min | 1.70 | 20 min | 2.21 |
| SC-101.01 | 10 min | 1.18 | 10 min | 1.05 | 20 min | 1.35 |
| SC-101.02 | 10 min | 2.05 | 10 min | 1.91 | 20 min | 2.49 |
| SC-102.01 | 10 min | 0.94 | 10 min | 0.82 | 20 min | 1.03 |
| SC-102.02 | 10 min | 3.50 | 10 min | 3.18 | 20 min | 4.10 |
| SC-103.01 | 10 min | 0.63 | 10 min | 0.55 | 20 min | 0.69 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-103.02 | 10 min | 2.17 | 10 min | 1.95 | 20 min | 2.53 |
| SC-104.01 | 10 min | 0.56 | 10 min | 0.49 | 20 min | 0.63 |
| SC-105.01 | 10 min | 0.60 | 10 min | 0.53 | 20 min | 0.67 |
| SC-105.02 | 10 min | 1.41 | 10 min | 1.29 | 20 min | 1.67 |
| SC-105.03 | 10 min | 3.29 | 10 min | 3.00 | 20 min | 3.89 |
| SC-105.04 | 10 min | 4.44 | 10 min | 4.07 | 20 min | 5.24 |
| SC-105.05 | 10 min | 5.26 | 10 min | 4.96 | 20 min | 6.40 |
| SC-105.06 | 10 min | 5.54 | 10 min | 5.33 | 20 min | 7.01 |
| SC-105.07 | 15 min | 8.11 | 10 min | 7.83 | 20 min | 10.21 |
| SC-105.08 | 15 min | 9.32 | 10 min | 8.96 | 20 min | 10.76 |
| SC-105.09 | 10 min | 12.28 | 10 min | 12.28 | 60 min | 13.05 |
| SC-106.01 | 10 min | 0.44 | 10 min | 0.38 | 20 min | 0.49 |
| SC-107.01 | 10 min | 0.76 | 10 min | 0.67 | 20 min | 0.86 |
| SC-108.01 | 10 min | 0.56 | 10 min | 0.49 | 20 min | 0.61 |
| SC-109.01 | 10 min | 0.73 | 10 min | 0.63 | 20 min | 0.81 |
| SC-11.01 | 10 min | 0.59 | 10 min | 0.52 | 20 min | 0.67 |
| SC-110.01 | 10 min | 0.67 | 10 min | 0.58 | 20 min | 0.74 |
| SC-110.02 | 10 min | 1.50 | 10 min | 1.37 | 20 min | 1.80 |
| SC-110.03 | 10 min | 1.64 | 10 min | 1.48 | 20 min | 1.94 |
| SC-111.01 | 20 min | 0.45 | 20 min | 0.43 | 20 min | 0.59 |
| SC-112.01 | 10 min | 1.13 | 10 min | 0.98 | 20 min | 1.26 |
| SC-113.01 | 10 min | 0.41 | 10 min | 0.36 | 20 min | 0.46 |
| SC-113.02 | 10 min | 1.30 | 10 min | 1.21 | 20 min | 1.62 |
| SC-114.01 | 10 min | 0.71 | 10 min | 0.63 | 20 min | 0.86 |
| SC-114.02 | 10 min | 1.14 | 10 min | 1.02 | 20 min | 1.37 |
| SC-114.03 | 10 min | 2.34 | 10 min | 2.08 | 20 min | 2.78 |
| SC-115.01 | 10 min | 0.65 | 10 min | 0.56 | 20 min | 0.72 |
| SC-115.02 | 10 min | 1.04 | 10 min | 0.92 | 20 min | 1.20 |
| SC-116.01 | 10 min | 0.64 | 10 min | 0.56 | 20 min | 0.71 |
| SC-116.02 | 10 min | 1.03 | 10 min | 0.90 | 20 min | 1.19 |
| SC-117.01 | 10 min | 0.38 | 10 min | 0.33 | 20 min | 0.42 |
| SC-118.01 | 10 min | 0.83 | 10 min | 0.72 | 20 min | 0.89 |
| SC-119.01 | 10 min | 1.26 | 10 min | 1.09 | 20 min | 1.41 |
| SC-119.02 | 10 min | 3.14 | 10 min | 2.74 | 20 min | 3.59 |
| SC-12.01 | 10 min | 0.69 | 10 min | 0.60 | 20 min | 0.77 |
| SC-12.02 | 10 min | 1.20 | 10 min | 1.05 | 20 min | 1.33 |
| SC-12.03 | 10 min | 2.19 | 10 min | 1.90 | 20 min | 2.51 |
| SC-12.04 | 10 min | 2.79 | 10 min | 2.42 | 20 min | 3.24 |
| SC-120.01 | 10 min | 0.57 | 10 min | 0.49 | 20 min | 0.63 |
| SC-121.01 | 10 min | 0.71 | 10 min | 0.62 | 20 min | 0.79 |
| SC-122.01 | 10 min | 1.16 | 10 min | 1.00 | 20 min | 1.23 |
| SC-122.02 | 10 min | 1.79 | 10 min | 1.56 | 20 min | 2.03 |
| SC-122.03 | 10 min | 2.41 | 10 min | 2.08 | 20 min | 2.80 |
| SC-123.01 | 10 min | 0.58 | 10 min | 0.51 | 20 min | 0.64 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-123.02 | 10 min | 1.62 | 10 min | 1.43 | 20 min | 1.88 |
| SC-123.03 | 10 min | 10.91 | 10 min | 10.22 | 20 min | 13.80 |
| SC-123.04 | 10 min | 11.19 | 10 min | 10.36 | 20 min | 13.98 |
| SC-123.05 | 10 min | 14.12 | 10 min | 12.99 | 20 min | 17.16 |
| SC-123.06 | 10 min | 14.54 | 10 min | 13.53 | 20 min | 17.25 |
| SC-123.07 | 10 min | 15.60 | 10 min | 14.62 | 20 min | 17.88 |
| SC-124.01 | 20 min | 0.70 | 20 min | 0.66 | 20 min | 0.91 |
| SC-124.02 | 20 min | 4.51 | 10 min | 4.15 | 20 min | 5.97 |
| SC-125.01 | 20 min | 0.97 | 20 min | 0.91 | 20 min | 1.26 |
| SC-126.01 | 10 min | 0.54 | 10 min | 0.47 | 20 min | 0.59 |
| SC-126.02 | 20 min | 1.30 | 20 min | 1.19 | 20 min | 1.69 |
| SC-126.03 | 20 min | 2.40 | 10 min | 2.25 | 20 min | 3.20 |
| SC-127.01 | 10 min | 1.28 | 10 min | 1.11 | 20 min | 1.37 |
| SC-127.02 | 10 min | 3.43 | 10 min | 2.99 | 20 min | 3.80 |
| SC-128.01 | 10 min | 1.25 | 10 min | 1.09 | 20 min | 1.37 |
| SC-129.01 | 10 min | 0.61 | 10 min | 0.57 | 20 min | 0.74 |
| SC-13.01 | 10 min | 0.63 | 10 min | 0.55 | 20 min | 0.70 |
| SC-130.01 | 10 min | 0.94 | 10 min | 0.81 | 20 min | 1.03 |
| SC-131.01 | 10 min | 0.37 | 10 min | 0.32 | 20 min | 0.40 |
| SC-132.01 | 10 min | 0.52 | 10 min | 0.45 | 20 min | 0.58 |
| SC-133.01 | 10 min | 0.38 | 10 min | 0.33 | 20 min | 0.41 |
| SC-134.01 | 10 min | 0.32 | 10 min | 0.27 | 20 min | 0.36 |
| SC-134.02 | 10 min | 1.02 | 10 min | 1.01 | 20 min | 1.17 |
| SC-134.03 | 10 min | 2.07 | 10 min | 2.04 | 20 min | 2.54 |
| SC-134.04 | 10 min | 2.93 | 10 min | 2.89 | 20 min | 3.70 |
| SC-135.01 | 10 min | 0.25 | 10 min | 0.22 | 20 min | 0.28 |
| SC-135.02 | 10 min | 1.39 | 10 min | 1.23 | 20 min | 1.63 |
| SC-135.03 | 10 min | 1.83 | 10 min | 1.63 | 20 min | 2.14 |
| SC-135.04 | 10 min | 4.06 | 10 min | 3.59 | 20 min | 4.77 |
| SC-135.05 | 10 min | 4.60 | 10 min | 4.17 | 20 min | 5.21 |
| SC-135.06 | 10 min | 7.50 | 10 min | 7.07 | 20 min | 8.83 |
| SC-136.01 | 10 min | 0.76 | 10 min | 0.66 | 20 min | 0.84 |
| SC-137.01 | 10 min | 0.77 | 10 min | 0.67 | 20 min | 0.86 |
| SC-138.01 | 10 min | 0.92 | 10 min | 0.79 | 20 min | 1.06 |
| SC-139.01 | 10 min | 0.90 | 10 min | 0.79 | 20 min | 1.03 |
| SC-139.02 | 10 min | 1.09 | 10 min | 0.95 | 20 min | 1.27 |
| SC-14.01 | 10 min | 1.11 | 10 min | 0.97 | 20 min | 1.22 |
| SC-14.02 | 10 min | 1.69 | 10 min | 1.48 | 20 min | 1.94 |
| SC-14.03 | 10 min | 2.21 | 10 min | 1.94 | 20 min | 2.58 |
| SC-140.01 | 10 min | 0.64 | 10 min | 0.55 | 20 min | 0.71 |
| SC-141.01 | 10 min | 1.04 | 10 min | 1.02 | 20 min | 1.27 |
| SC-142.01 | 20 min | 1.55 | 20 min | 1.45 | 20 min | 2.05 |
| SC-143.01 | 20 min | 0.61 | 20 min | 0.53 | 20 min | 0.77 |
| SC-143.02 | 10 min | 4.94 | 10 min | 4.83 | 20 min | 6.38 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-144.01 | 10 min | 0.73 | 10 min | 0.64 | 20 min | 0.88 |
| SC-144.02 | 10 min | 1.04 | 10 min | 0.92 | 20 min | 1.27 |
| SC-144.03 | 10 min | 1.38 | 10 min | 1.29 | 20 min | 1.59 |
| SC-144.04 | 10 min | 2.44 | 10 min | 2.42 | 20 min | 2.68 |
| SC-144.05 | 10 min | 4.60 | 10 min | 4.57 | 20 min | 5.23 |
| SC-145.01 | 10 min | 0.94 | 10 min | 0.81 | 20 min | 1.05 |
| SC-145.02 | 10 min | 1.74 | 10 min | 1.49 | 20 min | 1.97 |
| SC-146.01 | 15 min | 1.75 | 20 min | 1.69 | 20 min | 2.26 |
| SC-147.01 | 10 min | 0.92 | 10 min | 0.90 | 20 min | 1.12 |
| SC-147.02 | 10 min | 1.25 | 10 min | 1.23 | 20 min | 1.56 |
| SC-147.03 | 10 min | 3.19 | 10 min | 3.13 | 20 min | 3.99 |
| SC-148.01 | 10 min | 0.78 | 10 min | 0.68 | 20 min | 0.88 |
| SC-148.02 | 10 min | 1.67 | 10 min | 1.63 | 20 min | 2.09 |
| SC-149.01 | 10 min | 0.56 | 10 min | 0.50 | 20 min | 0.71 |
| SC-149.02 | 10 min | 1.83 | 10 min | 1.79 | 20 min | 2.30 |
| SC-15.01 | 10 min | 1.13 | 10 min | 0.97 | 20 min | 1.26 |
| SC-15.02 | 10 min | 1.48 | 10 min | 1.28 | 20 min | 1.68 |
| SC-15.03 | 10 min | 2.33 | 10 min | 2.02 | 20 min | 2.71 |
| SC-150.01 | 10 min | 0.68 | 10 min | 0.59 | 20 min | 0.75 |
| SC-150.02 | 10 min | 1.31 | 10 min | 1.13 | 20 min | 1.52 |
| SC-150.03 | 10 min | 3.32 | 10 min | 2.93 | 20 min | 3.90 |
| SC-150.04 | 10 min | 4.30 | 10 min | 3.80 | 20 min | 4.97 |
| SC-150.05 | 10 min | 5.94 | 10 min | 5.38 | 20 min | 6.92 |
| SC-150.06 | 10 min | 11.00 | 10 min | 10.18 | 20 min | 12.43 |
| SC-150.07 | 10 min | 17.06 | 10 min | 16.20 | 20 min | 20.28 |
| SC-150.08 | 2 hours | 9.68 | 45 min | 8.74 | 120 min | 9.51 |
| SC-150.09 | 2 hours | 10.19 | 45 min | 8.95 | 120 min | 10.12 |
| SC-150.10 | 2 hours | 12.14 | 45 min | 11.03 | 120 min | 12.11 |
| SC-150.11 | 10 min | 18.60 | 10 min | 17.75 | 20 min | 20.91 |
| SC-150.12 | 10 min | 29.36 | 10 min | 27.88 | 20 min | 32.54 |
| SC-150.13 | 15 min | 33.27 | 10 min | 32.00 | 20 min | 35.51 |
| SC-150.14 | 15 min | 49.84 | 20 min | 46.17 | 60 min | 52.32 |
| SC-150.15 | 15 min | 50.19 | 20 min | 46.88 | 60 min | 53.17 |
| SC-150.16 | 15 min | 52.64 | 20 min | 49.56 | 60 min | 55.84 |
| SC-150.17 | 15 min | 53.46 | 20 min | 50.49 | 60 min | 56.77 |
| SC-151.01 | 10 min | 0.91 | 10 min | 0.79 | 20 min | 1.00 |
| SC-151.02 | 10 min | 1.38 | 10 min | 1.20 | 20 min | 1.58 |
| SC-152.01 | 10 min | 0.80 | 10 min | 0.69 | 20 min | 0.90 |
| SC-153.01 | 10 min | 0.65 | 10 min | 0.57 | 20 min | 0.72 |
| SC-153.02 | 10 min | 1.52 | 10 min | 1.33 | 20 min | 1.77 |
| SC-154.01 | 10 min | 1.19 | 10 min | 1.03 | 20 min | 1.40 |
| SC-154.02 | 10 min | 3.98 | 10 min | 3.60 | 20 min | 4.75 |
| SC-155.01 | 10 min | 0.43 | 10 min | 0.42 | 20 min | 0.54 |
| SC-155.02 | 10 min | 1.25 | 10 min | 1.15 | 20 min | 1.51 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-156.01 | 10 min | 0.49 | 10 min | 0.42 | 20 min | 0.56 |
| SC-157.01 | 10 min | 0.57 | 10 min | 0.50 | 20 min | 0.66 |
| SC-158.01 | 10 min | 0.77 | 10 min | 0.67 | 20 min | 0.85 |
| SC-158.02 | 10 min | 0.98 | 10 min | 0.85 | 20 min | 1.13 |
| SC-158.03 | 10 min | 2.13 | 10 min | 1.89 | 20 min | 2.49 |
| SC-158.04 | 10 min | 3.96 | 10 min | 3.46 | 20 min | 4.67 |
| SC-159.01 | 10 min | 0.61 | 10 min | 0.53 | 20 min | 0.68 |
| SC-16.01 | 10 min | 0.73 | 10 min | 0.64 | 20 min | 0.81 |
| SC-160.01 | 10 min | 0.59 | 10 min | 0.52 | 20 min | 0.65 |
| SC-160.02 | 10 min | 1.32 | 10 min | 1.16 | 20 min | 1.54 |
| SC-161.01 | 10 min | 0.72 | 10 min | 0.63 | 20 min | 0.79 |
| SC-161.02 | 10 min | 1.36 | 10 min | 1.19 | 20 min | 1.56 |
| SC-162.01 | 10 min | 0.84 | 10 min | 0.72 | 20 min | 0.96 |
| SC-163.01 | 10 min | 0.47 | 10 min | 0.46 | 20 min | 0.61 |
| SC-163.02 | 10 min | 0.90 | 10 min | 0.88 | 20 min | 1.16 |
| SC-163.03 | 10 min | 1.48 | 10 min | 1.41 | 20 min | 1.86 |
| SC-163.04 | 10 min | 2.11 | 10 min | 1.90 | 20 min | 2.55 |
| SC-163.05 | 10 min | 3.65 | 10 min | 3.28 | 20 min | 4.36 |
| SC-164.01 | 10 min | 0.72 | 10 min | 0.63 | 20 min | 0.84 |
| SC-165.01 | 10 min | 0.62 | 10 min | 0.53 | 20 min | 0.71 |
| SC-165.02 | 10 min | 1.60 | 10 min | 1.39 | 20 min | 1.84 |
| SC-165.03 | 10 min | 2.09 | 10 min | 1.80 | 20 min | 2.41 |
| SC-165.04 | 10 min | 4.46 | 10 min | 4.03 | 20 min | 5.10 |
| SC-165.05 | 10 min | 7.50 | 10 min | 6.84 | 20 min | 8.66 |
| SC-166.01 | 10 min | 0.56 | 10 min | 0.49 | 20 min | 0.65 |
| SC-167.01 | 10 min | 0.85 | 10 min | 0.74 | 20 min | 0.94 |
| SC-167.02 | 10 min | 2.15 | 10 min | 1.88 | 20 min | 2.46 |
| SC-168.01 | 10 min | 0.70 | 10 min | 0.60 | 20 min | 0.77 |
| SC-169.01 | 10 min | 0.63 | 10 min | 0.54 | 20 min | 0.72 |
| SC-169.02 | 10 min | 1.16 | 10 min | 1.02 | 20 min | 1.38 |
| SC-169.03 | 10 min | 2.62 | 10 min | 2.25 | 20 min | 3.01 |
| SC-17.01 | 10 min | 0.64 | 10 min | 0.56 | 20 min | 0.71 |
| SC-17.02 | 10 min | 1.10 | 10 min | 0.96 | 20 min | 1.27 |
| SC-17.03 | 10 min | 1.84 | 10 min | 1.63 | 20 min | 2.16 |
| SC-17.04 | 10 min | 4.38 | 10 min | 4.00 | 20 min | 5.22 |
| SC-17.05 | 10 min | 6.01 | 10 min | 5.59 | 20 min | 7.15 |
| SC-17.06 | 10 min | 6.75 | 10 min | 6.40 | 20 min | 7.96 |
| SC-17.07 | 10 min | 7.26 | 10 min | 6.86 | 20 min | 8.27 |
| SC-170.01 | 10 min | 0.57 | 10 min | 0.50 | 20 min | 0.64 |
| SC-171.01 | 10 min | 0.41 | 10 min | 0.36 | 20 min | 0.44 |
| SC-172.01 | 10 min | 0.82 | 10 min | 0.72 | 20 min | 0.89 |
| SC-172.02 | 10 min | 1.38 | 10 min | 1.21 | 20 min | 1.55 |
| SC-173.01 | 20 min | 0.89 | 20 min | 0.85 | 20 min | 1.02 |
| SC-173.02 | 20 min | 1.79 | 20 min | 1.63 | 20 min | 2.29 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-173.03 | 20 min | 1.85 | 20 min | 1.64 | 20 min | 2.31 |
| SC-173.04 | 10 min | 3.07 | 10 min | 2.79 | 20 min | 3.89 |
| SC-173.05 | 10 min | 3.58 | 10 min | 3.32 | 20 min | 3.98 |
| SC-174.01 | 10 min | 0.53 | 10 min | 0.46 | 20 min | 0.57 |
| SC-175.01 | 10 min | 0.92 | 10 min | 0.80 | 20 min | 1.01 |
| SC-175.02 | 10 min | 1.86 | 10 min | 1.60 | 20 min | 2.15 |
| SC-175.03 | 10 min | 2.99 | 10 min | 2.59 | 20 min | 3.51 |
| SC-175.04 | 10 min | 3.67 | 10 min | 3.19 | 20 min | 4.29 |
| SC-175.05 | 10 min | 4.12 | 10 min | 3.75 | 20 min | 4.56 |
| SC-176.01 | 10 min | 0.38 | 10 min | 0.36 | 20 min | 0.51 |
| SC-177.01 | 10 min | 0.51 | 10 min | 0.45 | 20 min | 0.56 |
| SC-177.02 | 10 min | 1.34 | 10 min | 1.21 | 20 min | 1.58 |
| SC-177.03 | 10 min | 3.68 | 10 min | 3.26 | 20 min | 4.31 |
| SC-177.04 | 10 min | 5.02 | 10 min | 4.44 | 20 min | 5.92 |
| SC-178.01 | 10 min | 1.12 | 10 min | 0.97 | 20 min | 1.25 |
| SC-178.02 | 10 min | 1.66 | 10 min | 1.47 | 20 min | 1.94 |
| SC-179.01 | 10 min | 0.91 | 10 min | 0.80 | 20 min | 1.01 |
| SC-18.01 | 10 min | 0.71 | 10 min | 0.62 | 20 min | 0.79 |
| SC-18.02 | 10 min | 1.11 | 10 min | 1.01 | 20 min | 1.30 |
| SC-180.01 | 10 min | 0.88 | 10 min | 0.77 | 20 min | 0.98 |
| SC-180.02 | 10 min | 1.49 | 10 min | 1.32 | 20 min | 1.77 |
| SC-180.03 | 10 min | 2.09 | 10 min | 1.86 | 20 min | 2.49 |
| SC-180.04 | 10 min | 3.02 | 10 min | 2.64 | 20 min | 3.60 |
| SC-181.01 | 20 min | 0.38 | 10 min | 0.36 | 20 min | 0.51 |
| SC-181.02 | 10 min | 1.25 | 10 min | 1.15 | 20 min | 1.56 |
| SC-181.03 | 10 min | 2.04 | 10 min | 1.81 | 20 min | 2.46 |
| SC-181.04 | 10 min | 3.79 | 10 min | 3.40 | 20 min | 4.62 |
| SC-181.05 | 10 min | 4.08 | 10 min | 3.89 | 20 min | 4.70 |
| SC-181.06 | 10 min | 4.55 | 10 min | 4.31 | 20 min | 4.76 |
| SC-181.07 | 10 min | 10.03 | 10 min | 9.79 | 20 min | 11.30 |
| SC-181.08 | 10 min | 10.40 | 10 min | 10.20 | 20 min | 11.37 |
| SC-182.01 | 10 min | 0.62 | 10 min | 0.54 | 20 min | 0.70 |
| SC-182.02 | 10 min | 1.00 | 10 min | 0.89 | 20 min | 1.18 |
| SC-182.03 | 10 min | 1.56 | 10 min | 1.49 | 20 min | 2.06 |
| SC-183.01 | 10 min | 0.59 | 10 min | 0.54 | 20 min | 0.75 |
| SC-183.02 | 10 min | 1.34 | 10 min | 1.19 | 20 min | 1.61 |
| SC-183.03 | 10 min | 3.32 | 10 min | 2.99 | 20 min | 3.88 |
| SC-183.04 | 10 min | 3.79 | 10 min | 3.50 | 20 min | 4.26 |
| SC-184.01 | 10 min | 1.43 | 10 min | 1.24 | 20 min | 1.66 |
| SC-185.01 | 10 min | 0.86 | 10 min | 0.75 | 20 min | 0.95 |
| SC-185.02 | 10 min | 1.89 | 10 min | 1.64 | 20 min | 2.20 |
| SC-186.01 | 10 min | 0.30 | 10 min | 0.26 | 20 min | 0.33 |
| SC-187.01 | 10 min | 0.87 | 10 min | 0.76 | 20 min | 0.95 |
| SC-187.02 | 10 min | 1.67 | 10 min | 1.45 | 20 min | 1.94 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-187.03 | 10 min | 1.97 | 10 min | 1.75 | 20 min | 2.17 |
| SC-187.04 | 10 min | 2.46 | 10 min | 2.41 | 10 min | 2.46 |
| SC-187.05 | 10 min | 2.93 | 10 min | 2.93 | 10 min | 2.79 |
| SC-188.01 | 10 min | 0.91 | 10 min | 0.79 | 20 min | 1.01 |
| SC-188.02 | 10 min | 1.33 | 10 min | 1.17 | 20 min | 1.53 |
| SC-189.01 | 10 min | 1.03 | 10 min | 0.90 | 20 min | 1.14 |
| SC-189.02 | 10 min | 1.83 | 10 min | 1.59 | 20 min | 2.10 |
| SC-19.01 | 10 min | 0.41 | 10 min | 0.40 | 20 min | 0.52 |
| SC-190.01 | 10 min | 0.45 | 10 min | 0.39 | 20 min | 0.49 |
| SC-191.01 | 10 min | 0.83 | 10 min | 0.72 | 20 min | 0.91 |
| SC-191.02 | 10 min | 1.19 | 10 min | 1.03 | 20 min | 1.35 |
| SC-191.03 | 10 min | 2.18 | 10 min | 1.94 | 20 min | 2.56 |
| SC-191.04 | 10 min | 3.18 | 10 min | 2.81 | 20 min | 3.77 |
| SC-191.05 | 10 min | 4.45 | 10 min | 3.97 | 20 min | 5.17 |
| SC-191.06 | 10 min | 7.65 | 10 min | 6.91 | 20 min | 8.99 |
| SC-191.07 | 10 min | 9.11 | 10 min | 8.61 | 20 min | 11.03 |
| SC-191.08 | 10 min | 9.97 | 10 min | 9.33 | 20 min | 11.51 |
| SC-192.01 | 10 min | 2.59 | 10 min | 2.22 | 20 min | 3.01 |
| SC-193.01 | 10 min | 1.18 | 10 min | 1.03 | 20 min | 1.41 |
| SC-194.01 | 10 min | 1.18 | 10 min | 1.12 | 20 min | 1.56 |
| SC-194.02 | 20 min | 4.77 | 20 min | 4.58 | 20 min | 5.67 |
| SC-194.03 | 20 min | 4.95 | 20 min | 4.85 | 20 min | 5.91 |
| SC-195.01 | 20 min | 1.67 | 20 min | 1.61 | 20 min | 1.92 |
| SC-196.01 | 10 min | 3.86 | 10 min | 3.43 | 20 min | 4.81 |
| SC-197.01 | 10 min | 2.47 | 10 min | 2.41 | 20 min | 3.31 |
| SC-198.01 | 20 min | 2.40 | 20 min | 2.32 | 20 min | 3.02 |
| SC-2.01 | 10 min | 0.53 | 10 min | 0.52 | 20 min | 0.70 |
| SC-20.01 | 10 min | 0.56 | 10 min | 0.49 | 20 min | 0.62 |
| SC-200.01 | 10 min | 0.80 | 10 min | 0.70 | 20 min | 0.93 |
| SC-200.02 | 10 min | 1.41 | 10 min | 1.22 | 20 min | 1.62 |
| SC-200.03 | 10 min | 2.63 | 10 min | 2.32 | 20 min | 3.16 |
| SC-200.04 | 10 min | 3.84 | 10 min | 3.53 | 20 min | 4.75 |
| SC-200.05 | 10 min | 6.29 | 10 min | 5.71 | 20 min | 7.31 |
| SC-200.06 | 10 min | 9.51 | 10 min | 9.37 | 20 min | 11.81 |
| SC-200.07 | 10 min | 11.17 | 10 min | 11.00 | 20 min | 13.86 |
| SC-200.08 | 10 min | 12.58 | 10 min | 12.43 | 20 min | 15.52 |
| SC-200.09 | 15 min | 18.58 | 10 min | 18.45 | 20 min | 21.04 |
| SC-201.01 | 10 min | 1.02 | 10 min | 0.89 | 20 min | 1.13 |
| SC-202.01 | 10 min | 1.05 | 10 min | 0.91 | 20 min | 1.13 |
| SC-203.01 | 10 min | 1.04 | 10 min | 0.90 | 20 min | 1.18 |
| SC-204.01 | 10 min | 1.36 | 10 min | 1.33 | 20 min | 1.70 |
| SC-205.01 | 20 min | 0.55 | 20 min | 0.51 | 20 min | 0.73 |
| SC-206.01 | 10 min | 4.38 | 10 min | 4.32 | 20 min | 5.51 |
| SC-207.01 | 10 min | 0.98 | 10 min | 0.84 | 20 min | 1.10 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-207.02 | 10 min | 1.89 | 10 min | 1.67 | 20 min | 2.22 |
| SC-207.03 | 10 min | 2.11 | 10 min | 1.86 | 20 min | 2.54 |
| SC-207.04 | 10 min | 5.77 | 10 min | 5.51 | 20 min | 6.53 |
| SC-207.05 | 10 min | 7.61 | 10 min | 7.53 | 20 min | 8.57 |
| SC-207.06 | 10 min | 8.34 | 10 min | 8.30 | 20 min | 8.81 |
| SC-207.07 | 10 min | 13.97 | 10 min | 13.84 | 20 min | 16.05 |
| SC-207.08 | 10 min | 20.74 | 10 min | 20.57 | 20 min | 23.19 |
| SC-207.09 | 10 min | 23.77 | 10 min | 23.50 | 20 min | 26.27 |
| SC-207.10 | 15 min | 24.60 | 10 min | 24.13 | 20 min | 26.71 |
| SC-207.11 | 15 min | 26.60 | 10 min | 25.74 | 60 min | 27.81 |
| SC-207.12 | 15 min | 38.54 | 10 min | 36.89 | 20 min | 40.73 |
| SC-207.13 | 15 min | 40.73 | 10 min | 38.42 | 60 min | 42.50 |
| SC-207.14 | 15 min | 41.81 | 10 min | 39.28 | 60 min | 44.18 |
| SC-208.01 | 10 min | 1.08 | 10 min | 0.94 | 20 min | 1.15 |
| SC-208.02 | 10 min | 1.51 | 10 min | 1.32 | 20 min | 1.68 |
| SC-208.03 | 10 min | 2.00 | 10 min | 1.75 | 20 min | 2.29 |
| SC-208.04 | 10 min | 3.12 | 10 min | 2.84 | 20 min | 3.51 |
| SC-208.05 | 10 min | 3.57 | 10 min | 3.38 | 20 min | 3.89 |
| SC-209.01 | 10 min | 0.66 | 10 min | 0.58 | 20 min | 0.74 |
| SC-21.01 | 10 min | 0.80 | 10 min | 0.70 | 20 min | 0.88 |
| SC-210.01 | 10 min | 1.49 | 10 min | 1.29 | 20 min | 1.66 |
| SC-210.02 | 10 min | 2.04 | 10 min | 1.76 | 20 min | 2.34 |
| SC-211.01 | 20 min | 0.56 | 20 min | 0.54 | 20 min | 0.68 |
| SC-211.02 | 25 min | 1.25 | 20 min | 1.17 | 60 min | 1.34 |
| SC-211.03 | 20 min | 1.92 | 20 min | 1.89 | 20 min | 2.25 |
| SC-211.04 | 20 min | 2.29 | 20 min | 2.26 | 20 min | 2.62 |
| SC-212.01 | 1 hour | 0.21 | 45 min | 0.21 | 45 min | 0.20 |
| SC-212.02 | 20 min | 0.43 | 20 min | 0.41 | 20 min | 0.52 |
| SC-213.01 | 10 min | 0.62 | 10 min | 0.54 | 20 min | 0.67 |
| SC-213.02 | 10 min | 1.02 | 10 min | 0.89 | 20 min | 1.17 |
| SC-214.01 | 10 min | 0.76 | 10 min | 0.66 | 20 min | 0.84 |
| SC-214.02 | 10 min | 1.64 | 10 min | 1.43 | 20 min | 1.80 |
| SC-215.01 | 10 min | 0.60 | 10 min | 0.52 | 20 min | 0.69 |
| SC-215.02 | 10 min | 1.08 | 10 min | 0.96 | 20 min | 1.27 |
| SC-216.01 | 10 min | 0.58 | 10 min | 0.50 | 20 min | 0.61 |
| SC-216.02 | 10 min | 1.73 | 10 min | 1.51 | 20 min | 1.89 |
| SC-216.03 | 10 min | 2.69 | 10 min | 2.35 | 20 min | 3.06 |
| SC-216.04 | 10 min | 3.73 | 10 min | 3.52 | 20 min | 3.86 |
| SC-217.01 | 10 min | 0.41 | 10 min | 0.36 | 20 min | 0.43 |
| SC-218.01 | 10 min | 0.31 | 10 min | 0.27 | 20 min | 0.33 |
| SC-219.01 | 10 min | 0.41 | 10 min | 0.36 | 20 min | 0.44 |
| SC-22.01 | 10 min | 0.45 | 10 min | 0.39 | 20 min | 0.49 |
| SC-220.01 | 10 min | 0.63 | 10 min | 0.55 | 20 min | 0.69 |
| SC-221.01 | 10 min | 0.58 | 10 min | 0.50 | 20 min | 0.64 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-221.02 | 10 min | 1.23 | 10 min | 1.10 | 20 min | 1.44 |
| SC-221.03 | 10 min | 1.51 | 10 min | 1.35 | 20 min | 1.77 |
| SC-221.04 | 10 min | 2.21 | 10 min | 1.95 | 20 min | 2.60 |
| SC-221.05 | 10 min | 2.86 | 10 min | 2.56 | 20 min | 3.34 |
| SC-221.06 | 10 min | 2.99 | 10 min | 2.73 | 20 min | 3.48 |
| SC-222.01 | 10 min | 0.63 | 10 min | 0.55 | 20 min | 0.70 |
| SC-222.02 | 10 min | 0.98 | 10 min | 0.87 | 20 min | 1.14 |
| SC-222.03 | 10 min | 2.17 | 10 min | 2.12 | 20 min | 2.78 |
| SC-223.01 | 10 min | 0.27 | 10 min | 0.23 | 20 min | 0.30 |
| SC-224.01 | 15 min | 0.71 | 10 min | 0.69 | 20 min | 0.94 |
| SC-225.01 | 10 min | 0.50 | 10 min | 0.43 | 20 min | 0.55 |
| SC-226.01 | 10 min | 0.37 | 10 min | 0.32 | 20 min | 0.40 |
| SC-226.02 | 10 min | 0.85 | 10 min | 0.75 | 20 min | 0.98 |
| SC-226.03 | 10 min | 1.75 | 10 min | 1.59 | 20 min | 2.07 |
| SC-226.04 | 10 min | 2.63 | 10 min | 2.34 | 20 min | 3.09 |
| SC-226.05 | 10 min | 10.48 | 10 min | 9.36 | 20 min | 12.34 |
| SC-226.06 | 10 min | 11.44 | 10 min | 10.65 | 20 min | 13.11 |
| SC-226.07 | 10 min | 12.46 | 10 min | 11.82 | 20 min | 13.54 |
| SC-226.08 | 10 min | 13.12 | 10 min | 12.37 | 20 min | 13.85 |
| SC-227.01 | 10 min | 0.19 | 10 min | 0.17 | 20 min | 0.21 |
| SC-228.01 | 10 min | 0.41 | 10 min | 0.36 | 20 min | 0.45 |
| SC-229.01 | 10 min | 0.29 | 10 min | 0.25 | 20 min | 0.32 |
| SC-23.01 | 10 min | 0.59 | 10 min | 0.51 | 20 min | 0.64 |
| SC-23.02 | 10 min | 1.71 | 10 min | 1.54 | 20 min | 2.00 |
| SC-23.03 | 10 min | 2.09 | 10 min | 1.91 | 20 min | 2.48 |
| SC-230.01 | 10 min | 0.28 | 10 min | 0.24 | 20 min | 0.32 |
| SC-231.01 | 10 min | 0.31 | 10 min | 0.27 | 20 min | 0.35 |
| SC-232.01 | 10 min | 0.77 | 10 min | 0.68 | 20 min | 0.88 |
| SC-232.02 | 10 min | 1.22 | 10 min | 1.07 | 20 min | 1.42 |
| SC-232.03 | 10 min | 2.85 | 10 min | 2.52 | 20 min | 3.33 |
| SC-233.01 | 10 min | 0.56 | 10 min | 0.48 | 20 min | 0.62 |
| SC-233.02 | 10 min | 0.90 | 10 min | 0.80 | 20 min | 1.05 |
| SC-234.01 | 10 min | 0.80 | 10 min | 0.70 | 20 min | 0.89 |
| SC-234.02 | 10 min | 1.53 | 10 min | 1.36 | 20 min | 1.78 |
| SC-234.03 | 10 min | 4.50 | 10 min | 4.03 | 20 min | 5.42 |
| SC-235.01 | 10 min | 0.30 | 10 min | 0.26 | 20 min | 0.32 |
| SC-236.01 | 10 min | 0.38 | 10 min | 0.33 | 20 min | 0.41 |
| SC-236.02 | 10 min | 0.58 | 10 min | 0.50 | 20 min | 0.65 |
| SC-237.01 | 10 min | 0.51 | 10 min | 0.44 | 20 min | 0.57 |
| SC-237.02 | 10 min | 1.04 | 10 min | 1.02 | 20 min | 1.40 |
| SC-238.01 | 10 min | 0.33 | 10 min | 0.29 | 20 min | 0.36 |
| SC-238.02 | 10 min | 0.75 | 10 min | 0.66 | 20 min | 0.87 |
| SC-239.01 | 10 min | 0.42 | 10 min | 0.37 | 20 min | 0.47 |
| SC-24.01 | 10 min | 0.51 | 10 min | 0.45 | 20 min | 0.57 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-240.01 | 20 min | 1.10 | 20 min | 1.05 | 20 min | 1.30 |
| SC-240.02 | 20 min | 1.56 | 20 min | 1.48 | 20 min | 1.96 |
| SC-241.01 | 15 min | 4.53 | 10 min | 4.70 | 20 min | 6.10 |
| SC-242.01 | 10 min | 0.59 | 10 min | 0.52 | 20 min | 0.66 |
| SC-242.02 | 10 min | 1.50 | 10 min | 1.31 | 20 min | 1.75 |
| SC-242.03 | 10 min | 2.22 | 10 min | 1.96 | 20 min | 2.61 |
| SC-242.04 | 10 min | 2.36 | 10 min | 2.07 | 20 min | 2.78 |
| SC-242.05 | 10 min | 5.23 | 10 min | 4.76 | 20 min | 6.09 |
| SC-242.06 | 10 min | 6.67 | 10 min | 6.46 | 20 min | 7.99 |
| SC-242.07 | 10 min | 7.14 | 10 min | 7.00 | 20 min | 8.63 |
| SC-242.08 | 10 min | 14.04 | 10 min | 13.97 | 20 min | 16.41 |
| SC-243.01 | 10 min | 0.56 | 10 min | 0.49 | 20 min | 0.61 |
| SC-243.02 | 10 min | 2.04 | 10 min | 1.76 | 20 min | 2.31 |
| SC-244.01 | 10 min | 0.79 | 10 min | 0.69 | 20 min | 0.86 |
| SC-245.01 | 10 min | 0.42 | 10 min | 0.36 | 20 min | 0.46 |
| SC-246.01 | 10 min | 0.28 | 10 min | 0.24 | 20 min | 0.31 |
| SC-246.02 | 10 min | 0.72 | 10 min | 0.70 | 20 min | 0.91 |
| SC-247.01 | 10 min | 0.75 | 10 min | 0.67 | 20 min | 0.86 |
| SC-247.02 | 10 min | 1.89 | 10 min | 1.85 | 20 min | 2.36 |
| SC-248.01 | 10 min | 0.94 | 10 min | 0.92 | 20 min | 1.15 |
| SC-249.01 | 20 min | 0.22 | 20 min | 0.21 | 20 min | 0.25 |
| SC-249.02 | 20 min | 0.63 | 10 min | 0.60 | 20 min | 0.85 |
| SC-249.03 | 10 min | 1.29 | 10 min | 1.26 | 20 min | 1.72 |
| SC-249.04 | 10 min | 3.25 | 10 min | 3.05 | 20 min | 4.05 |
| SC-249.05 | 10 min | 9.49 | 10 min | 9.14 | 20 min | 11.86 |
| SC-249.06 | 10 min | 16.08 | 10 min | 15.99 | 20 min | 19.35 |
| SC-25.01 | 10 min | 1.56 | 10 min | 1.36 | 20 min | 1.71 |
| SC-25.02 | 10 min | 2.19 | 10 min | 1.91 | 20 min | 2.50 |
| SC-25.03 | 10 min | 2.38 | 10 min | 2.07 | 20 min | 2.77 |
| SC-25.04 | 10 min | 4.00 | 10 min | 3.52 | 20 min | 4.75 |
| SC-250.01 | 10 min | 0.18 | 10 min | 0.15 | 20 min | 0.20 |
| SC-251.01 | 10 min | 0.43 | 10 min | 0.37 | 20 min | 0.49 |
| SC-252.01 | 10 min | 0.49 | 10 min | 0.44 | 20 min | 0.60 |
| SC-252.02 | 10 min | 0.92 | 10 min | 0.80 | 20 min | 1.08 |
| SC-253.01 | 10 min | 0.74 | 10 min | 0.64 | 20 min | 0.82 |
| SC-253.02 | 10 min | 2.64 | 10 min | 2.30 | 20 min | 3.05 |
| SC-253.03 | 10 min | 3.23 | 10 min | 2.78 | 20 min | 3.75 |
| SC-254.01 | 10 min | 0.74 | 10 min | 0.64 | 20 min | 0.84 |
| SC-255.01 | 10 min | 0.69 | 10 min | 0.61 | 20 min | 0.84 |
| SC-256.01 | 10 min | 0.61 | 10 min | 0.53 | 20 min | 0.70 |
| SC-257.01 | 10 min | 0.35 | 10 min | 0.30 | 20 min | 0.39 |
| SC-258.01 | 10 min | 1.58 | 10 min | 1.39 | 20 min | 1.80 |
| SC-258.02 | 10 min | 2.63 | 10 min | 2.58 | 20 min | 3.29 |
| SC-259.01 | 10 min | 0.68 | 10 min | 0.60 | 20 min | 0.75 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-259.02 | 10 min | 1.40 | 10 min | 1.23 | 20 min | 1.64 |
| SC-259.03 | 10 min | 1.99 | 10 min | 1.73 | 20 min | 2.33 |
| SC-259.04 | 10 min | 3.62 | 10 min | 3.14 | 20 min | 4.19 |
| SC-259.05 | 10 min | 4.41 | 10 min | 3.88 | 20 min | 5.18 |
| SC-259.06 | 10 min | 5.69 | 10 min | 5.01 | 20 min | 6.63 |
| SC-259.07 | 10 min | 7.17 | 10 min | 7.17 | 20 min | 6.82 |
| SC-259.08 | 10 min | 8.57 | 10 min | 8.57 | 10 min | 8.12 |
| SC-259.09 | 10 min | 22.34 | 10 min | 22.34 | 60 min | 22.89 |
| SC-259.10 | 10 min | 22.72 | 10 min | 22.72 | 60 min | 23.37 |
| SC-26.01 | 10 min | 0.48 | 10 min | 0.42 | 20 min | 0.53 |
| SC-260.01 | 10 min | 0.45 | 10 min | 0.39 | 20 min | 0.50 |
| SC-261.01 | 10 min | 0.58 | 10 min | 0.51 | 20 min | 0.64 |
| SC-262.01 | 10 min | 0.66 | 10 min | 0.57 | 20 min | 0.73 |
| SC-262.02 | 10 min | 1.19 | 10 min | 1.03 | 20 min | 1.35 |
| SC-263.01 | 10 min | 0.70 | 10 min | 0.60 | 20 min | 0.78 |
| SC-264.01 | 10 min | 0.39 | 10 min | 0.34 | 20 min | 0.42 |
| SC-265.01 | 10 min | 0.50 | 10 min | 0.44 | 20 min | 0.57 |
| SC-265.02 | 20 min | 1.20 | 10 min | 1.19 | 20 min | 1.67 |
| SC-265.03 | 15 min | 2.08 | 10 min | 2.04 | 20 min | 2.62 |
| SC-265.04 | 10 min | 10.21 | 10 min | 9.89 | 20 min | 11.88 |
| SC-266.01 | 10 min | 0.64 | 10 min | 0.58 | 20 min | 0.81 |
| SC-266.02 | 10 min | 1.22 | 10 min | 1.12 | 20 min | 1.54 |
| SC-266.03 | 10 min | 1.47 | 10 min | 1.30 | 20 min | 1.81 |
| SC-266.04 | 10 min | 5.60 | 10 min | 5.25 | 20 min | 7.18 |
| SC-266.05 | 10 min | 6.48 | 10 min | 6.10 | 20 min | 7.54 |
| SC-267.01 | 10 min | 0.62 | 10 min | 0.54 | 20 min | 0.69 |
| SC-268.01 | 10 min | 1.04 | 10 min | 0.90 | 20 min | 1.18 |
| SC-268.02 | 10 min | 2.70 | 10 min | 2.42 | 20 min | 3.32 |
| SC-269.01 | 20 min | 0.43 | 10 min | 0.43 | 20 min | 0.60 |
| SC-27.01 | 10 min | 0.49 | 10 min | 0.46 | 20 min | 0.61 |
| SC-270.01 | 20 min | 0.47 | 10 min | 0.49 | 20 min | 0.67 |
| SC-271.01 | 15 min | 0.29 | 10 min | 0.31 | 20 min | 0.41 |
| SC-272.01 | 20 min | 0.71 | 10 min | 0.69 | 20 min | 0.98 |
| SC-272.02 | 20 min | 1.45 | 10 min | 1.53 | 20 min | 2.05 |
| SC-272.03 | 10 min | 2.58 | 10 min | 2.53 | 20 min | 3.33 |
| SC-273.01 | 10 min | 0.73 | 10 min | 0.72 | 20 min | 0.90 |
| SC-274.01 | 20 min | 0.36 | 20 min | 0.33 | 20 min | 0.45 |
| SC-274.02 | 10 min | 1.44 | 10 min | 1.33 | 20 min | 1.80 |
| SC-274.03 | 10 min | 3.48 | 10 min | 3.10 | 20 min | 4.13 |
| SC-274.04 | 10 min | 4.49 | 10 min | 3.98 | 20 min | 5.32 |
| SC-274.05 | 10 min | 5.81 | 10 min | 5.36 | 20 min | 7.18 |
| SC-275.01 | 10 min | 0.68 | 10 min | 0.59 | 20 min | 0.75 |
| SC-276.01 | 10 min | 0.50 | 10 min | 0.43 | 20 min | 0.54 |
| SC-277.01 | 10 min | 0.62 | 10 min | 0.55 | 20 min | 0.71 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-278.01 | 10 min | 0.38 | 10 min | 0.33 | 20 min | 0.42 |
| SC-278.02 | 10 min | 5.04 | 10 min | 4.96 | 20 min | 6.22 |
| SC-279.01 | 10 min | 0.66 | 10 min | 0.65 | 20 min | 0.84 |
| SC-279.02 | 10 min | 4.81 | 10 min | 4.71 | 20 min | 5.96 |
| SC-28.01 | 20 min | 0.41 | 20 min | 0.40 | 20 min | 0.53 |
| SC-28.02 | 20 min | 0.92 | 10 min | 0.92 | 20 min | 1.28 |
| SC-28.03 | 20 min | 1.29 | 10 min | 1.31 | 20 min | 1.79 |
| SC-28.04 | 10 min | 2.82 | 10 min | 2.73 | 20 min | 3.66 |
| SC-280.01 | 10 min | 0.62 | 10 min | 0.57 | 20 min | 0.76 |
| SC-29.01 | 10 min | 0.48 | 10 min | 0.42 | 20 min | 0.52 |
| SC-29.02 | 10 min | 1.29 | 10 min | 1.14 | 20 min | 1.51 |
| SC-3.01 | 10 min | 0.55 | 10 min | 0.54 | 20 min | 0.73 |
| SC-3.02 | 15 min | 1.73 | 10 min | 1.78 | 20 min | 2.43 |
| SC-30.01 | 10 min | 0.85 | 10 min | 0.74 | 20 min | 0.93 |
| SC-30.02 | 10 min | 1.52 | 10 min | 1.35 | 20 min | 1.76 |
| SC-30.03 | 10 min | 2.10 | 10 min | 1.87 | 20 min | 2.44 |
| SC-30.04 | 10 min | 2.66 | 10 min | 2.35 | 20 min | 3.14 |
| SC-31.01 | 10 min | 0.56 | 10 min | 0.53 | 20 min | 0.68 |
| SC-31.02 | 10 min | 1.15 | 10 min | 1.12 | 20 min | 1.46 |
| SC-32.01 | 15 min | 0.48 | 10 min | 0.52 | 20 min | 0.67 |
| SC-32.02 | 15 min | 0.71 | 20 min | 0.68 | 20 min | 0.91 |
| SC-33.01 | 10 min | 0.71 | 10 min | 0.62 | 20 min | 0.79 |
| SC-33.02 | 10 min | 1.61 | 10 min | 1.42 | 20 min | 1.89 |
| SC-34.01 | 10 min | 0.55 | 10 min | 0.50 | 20 min | 0.64 |
| SC-34.02 | 10 min | 1.11 | 10 min | 1.04 | 20 min | 1.34 |
| SC-34.03 | 10 min | 1.32 | 10 min | 1.19 | 20 min | 1.58 |
| SC-35.01 | 10 min | 0.52 | 10 min | 0.45 | 20 min | 0.55 |
| SC-35.02 | 10 min | 1.39 | 10 min | 1.22 | 20 min | 1.55 |
| SC-35.03 | 10 min | 2.22 | 10 min | 1.94 | 20 min | 2.47 |
| SC-35.04 | 10 min | 2.37 | 10 min | 2.08 | 20 min | 2.64 |
| SC-36.01 | 10 min | 1.08 | 10 min | 0.94 | 20 min | 1.21 |
| SC-36.02 | 10 min | 1.95 | 10 min | 1.70 | 20 min | 2.17 |
| SC-37.01 | 10 min | 0.42 | 10 min | 0.36 | 20 min | 0.46 |
| SC-37.02 | 10 min | 1.15 | 10 min | 1.02 | 20 min | 1.33 |
| SC-38.01 | 10 min | 0.48 | 10 min | 0.42 | 20 min | 0.54 |
| SC-39.01 | 10 min | 0.28 | 10 min | 0.25 | 20 min | 0.31 |
| SC-4.01 | 20 min | 0.61 | 10 min | 0.61 | 20 min | 0.85 |
| SC-40.01 | 10 min | 0.66 | 10 min | 0.58 | 20 min | 0.71 |
| SC-41.01 | 10 min | 0.44 | 10 min | 0.38 | 20 min | 0.46 |
| SC-42.01 | 10 min | 1.48 | 10 min | 1.28 | 20 min | 1.59 |
| SC-43.01 | 10 min | 0.32 | 10 min | 0.28 | 20 min | 0.34 |
| SC-44.01 | 10 min | 1.01 | 10 min | 0.88 | 20 min | 1.12 |
| SC-44.02 | 10 min | 1.58 | 10 min | 1.40 | 20 min | 1.83 |
| SC-44.03 | 10 min | 2.17 | 10 min | 1.93 | 20 min | 2.55 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-44.04 | 10 min | 3.35 | 10 min | 2.96 | 20 min | 3.95 |
| SC-44.05 | 10 min | 5.80 | 10 min | 5.25 | 20 min | 6.66 |
| SC-44.06 | 10 min | 6.13 | 10 min | 5.70 | 20 min | 7.03 |
| SC-44.07 | 10 min | 6.82 | 10 min | 6.79 | 20 min | 7.70 |
| SC-44.08 | 10 min | 8.82 | 10 min | 8.74 | 20 min | 9.87 |
| SC-44.09 | 10 min | 9.12 | 10 min | 9.08 | 20 min | 10.31 |
| SC-44.10 | 12 hours | 2.42 | 120 min | 0.76 | 120 min | 0.76 |
| SC-44.11 | 45 min | 12.48 | 45 min | 11.33 | 45 min | 14.64 |
| SC-44.12 | 12 hours | 5.67 | 120 min | 0.70 | 120 min | 0.70 |
| SC-44.13 | 12 hours | 5.75 | 120 min | 0.67 | 120 min | 0.68 |
| SC-44.14 | 12 hours | 6.49 | 45 min | 1.44 | 45 min | 1.47 |
| SC-44.15 | 12 hours | 4.64 | 60 min | 2.58 | 60 min | 2.65 |
| SC-44.16 | 12 hours | 4.66 | 60 min | 2.62 | 60 min | 2.70 |
| SC-44.17 | 15 min | 8.32 | 10 min | 8.33 | 20 min | 9.82 |
| SC-44.18 | 15 min | 8.86 | 20 min | 8.51 | 20 min | 10.03 |
| SC-44.19 | 15 min | 10.10 | 20 min | 9.76 | 60 min | 10.84 |
| SC-44.20 | 25 min | 9.34 | 20 min | 9.25 | 60 min | 10.04 |
| SC-45.01 | 10 min | 0.74 | 10 min | 0.66 | 20 min | 0.87 |
| SC-46.01 | 10 min | 0.61 | 10 min | 0.53 | 20 min | 0.68 |
| SC-46.02 | 10 min | 1.03 | 10 min | 0.92 | 20 min | 1.21 |
| SC-46.03 | 10 min | 1.55 | 10 min | 1.38 | 20 min | 1.80 |
| SC-46.04 | 10 min | 1.74 | 10 min | 1.54 | 20 min | 2.05 |
| SC-47.01 | 10 min | 0.99 | 10 min | 0.86 | 20 min | 1.10 |
| SC-48.01 | 10 min | 0.75 | 10 min | 0.65 | 20 min | 0.83 |
| SC-48.02 | 10 min | 1.17 | 10 min | 1.04 | 20 min | 1.35 |
| SC-49.01 | 10 min | 0.84 | 10 min | 0.73 | 20 min | 0.93 |
| SC-5.01 | 10 min | 0.53 | 10 min | 0.47 | 20 min | 0.61 |
| SC-50.01 | 10 min | 0.28 | 10 min | 0.27 | 20 min | 0.35 |
| SC-51.01 | 10 min | 0.29 | 10 min | 0.25 | 20 min | 0.33 |
| SC-52.01 | 10 min | 0.29 | 10 min | 0.26 | 20 min | 0.33 |
| SC-53.01 | 10 min | 0.72 | 10 min | 0.63 | 20 min | 0.80 |
| SC-53.02 | 10 min | 1.45 | 10 min | 1.32 | 20 min | 1.72 |
| SC-53.03 | 10 min | 1.76 | 10 min | 1.56 | 20 min | 2.08 |
| SC-54.01 | 10 min | 0.59 | 10 min | 0.51 | 20 min | 0.65 |
| SC-54.02 | 10 min | 1.10 | 10 min | 1.01 | 20 min | 1.31 |
| SC-55.01 | 10 min | 0.91 | 10 min | 0.80 | 20 min | 1.01 |
| SC-56.01 | 10 min | 0.42 | 10 min | 0.38 | 20 min | 0.50 |
| SC-57.01 | 10 min | 0.31 | 10 min | 0.30 | 20 min | 0.38 |
| SC-58.01 | 10 min | 0.59 | 10 min | 0.51 | 20 min | 0.66 |
| SC-59.01 | 10 min | 0.79 | 10 min | 0.69 | 20 min | 0.91 |
| SC-59.02 | 10 min | 1.49 | 10 min | 1.36 | 20 min | 1.79 |
| SC-59.03 | 10 min | 2.18 | 10 min | 1.97 | 20 min | 2.58 |
| SC-59.04 | 10 min | 2.82 | 10 min | 2.50 | 20 min | 3.33 |
| SC-59.05 | 10 min | 5.96 | 10 min | 5.60 | 20 min | 7.18 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-59.06 | 10 min | 6.84 | 10 min | 6.62 | 20 min | 8.23 |
| SC-59.07 | 10 min | 11.45 | 10 min | 11.24 | 20 min | 14.37 |
| SC-59.08 | 15 min | 11.49 | 10 min | 11.08 | 20 min | 14.03 |
| SC-59.09 | 15 min | 14.04 | 20 min | 13.35 | 60 min | 15.50 |
| SC-59.10 | 25 min | 12.35 | 20 min | 11.26 | 45 min | 13.89 |
| SC-6.01 | 10 min | 0.69 | 10 min | 0.60 | 20 min | 0.74 |
| SC-60.01 | 10 min | 0.53 | 10 min | 0.52 | 20 min | 0.69 |
| SC-60.02 | 10 min | 2.10 | 10 min | 2.06 | 20 min | 2.71 |
| SC-61.01 | 10 min | 1.10 | 10 min | 1.07 | 20 min | 1.38 |
| SC-62.01 | 10 min | 0.70 | 10 min | 0.61 | 20 min | 0.78 |
| SC-63.01 | 10 min | 0.40 | 10 min | 0.39 | 20 min | 0.50 |
| SC-64.01 | 10 min | 0.53 | 10 min | 0.46 | 20 min | 0.58 |
| SC-64.02 | 10 min | 1.76 | 10 min | 1.61 | 20 min | 2.13 |
| SC-64.03 | 10 min | 3.31 | 10 min | 2.99 | 20 min | 3.98 |
| SC-64.04 | 10 min | 4.60 | 10 min | 4.32 | 20 min | 5.73 |
| SC-65.01 | 10 min | 0.41 | 10 min | 0.35 | 20 min | 0.46 |
| SC-66.01 | 10 min | 0.32 | 10 min | 0.31 | 20 min | 0.40 |
| SC-66.02 | 15 min | 0.72 | 10 min | 0.77 | 20 min | 1.03 |
| SC-67.01 | 10 min | 0.59 | 10 min | 0.52 | 20 min | 0.65 |
| SC-68.01 | 10 min | 0.81 | 10 min | 0.71 | 20 min | 0.89 |
| SC-68.02 | 10 min | 1.52 | 10 min | 1.37 | 20 min | 1.77 |
| SC-68.03 | 10 min | 2.77 | 10 min | 2.40 | 20 min | 3.18 |
| SC-69.01 | 10 min | 0.70 | 10 min | 0.61 | 20 min | 0.75 |
| SC-7.01 | 10 min | 0.90 | 10 min | 0.80 | 20 min | 1.08 |
| SC-70.01 | 10 min | 0.64 | 10 min | 0.56 | 20 min | 0.71 |
| SC-70.02 | 10 min | 1.02 | 10 min | 0.90 | 20 min | 1.18 |
| SC-71.01 | 10 min | 0.81 | 10 min | 0.70 | 20 min | 0.89 |
| SC-71.02 | 10 min | 1.53 | 10 min | 1.38 | 20 min | 1.80 |
| SC-72.01 | 10 min | 0.87 | 10 min | 0.76 | 20 min | 0.96 |
| SC-73.01 | 10 min | 0.70 | 10 min | 0.61 | 20 min | 0.79 |
| SC-74.01 | 10 min | 0.81 | 10 min | 0.71 | 20 min | 0.90 |
| SC-75.01 | 10 min | 0.47 | 10 min | 0.46 | 20 min | 0.59 |
| SC-75.02 | 10 min | 1.91 | 10 min | 1.87 | 20 min | 2.45 |
| SC-75.03 | 10 min | 2.72 | 10 min | 2.67 | 20 min | 3.46 |
| SC-75.04 | 10 min | 4.69 | 10 min | 4.52 | 20 min | 5.88 |
| SC-76.01 | 10 min | 0.65 | 10 min | 0.64 | 20 min | 0.83 |
| SC-77.01 | 10 min | 0.96 | 10 min | 0.83 | 20 min | 1.06 |
| SC-77.02 | 10 min | 1.45 | 10 min | 1.26 | 20 min | 1.60 |
| SC-77.03 | 10 min | 2.01 | 10 min | 1.76 | 20 min | 2.30 |
| SC-78.01 | 10 min | 0.90 | 10 min | 0.79 | 20 min | 1.00 |
| SC-79.01 | 10 min | 0.96 | 10 min | 0.84 | 20 min | 1.11 |
| SC-79.02 | 10 min | 1.78 | 10 min | 1.55 | 20 min | 2.04 |
| SC-79.03 | 10 min | 3.90 | 10 min | 3.44 | 20 min | 4.55 |
| SC-8.01 | 10 min | 0.76 | 10 min | 0.68 | 20 min | 0.90 |

## Temporal Pattern Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-8.02 | 10 min | 1.82 | 10 min | 1.69 | 20 min | 2.24 |
| SC-8.03 | 10 min | 4.76 | 10 min | 4.25 | 20 min | 5.63 |
| SC-8.04 | 10 min | 8.34 | 10 min | 7.40 | 20 min | 9.95 |
| SC-8.05 | 10 min | 9.11 | 10 min | 8.15 | 20 min | 10.58 |
| SC-8.06 | 10 min | 9.46 | 10 min | 8.65 | 20 min | 10.69 |
| SC-80.01 | 10 min | 0.94 | 10 min | 0.82 | 20 min | 1.04 |
| SC-80.02 | 10 min | 1.86 | 10 min | 1.66 | 20 min | 2.17 |
| SC-81.01 | 10 min | 0.70 | 10 min | 0.64 | 20 min | 0.82 |
| SC-81.02 | 10 min | 2.07 | 10 min | 1.86 | 20 min | 2.42 |
| SC-82.01 | 10 min | 0.84 | 10 min | 0.73 | 20 min | 0.93 |
| SC-83.01 | 10 min | 0.53 | 10 min | 0.46 | 20 min | 0.59 |
| SC-84.01 | 10 min | 0.79 | 10 min | 0.68 | 20 min | 0.89 |
| SC-84.02 | 10 min | 1.92 | 10 min | 1.67 | 20 min | 2.24 |
| SC-84.03 | 10 min | 2.54 | 10 min | 2.23 | 20 min | 2.98 |
| SC-84.04 | 10 min | 3.01 | 10 min | 2.63 | 20 min | 3.54 |
| SC-84.05 | 10 min | 3.56 | 10 min | 3.20 | 20 min | 3.95 |
| SC-84.06 | 10 min | 3.93 | 10 min | 3.63 | 20 min | 4.24 |
| SC-85.01 | 10 min | 0.49 | 10 min | 0.43 | 20 min | 0.54 |
| SC-86.01 | 10 min | 0.75 | 10 min | 0.65 | 20 min | 0.83 |
| SC-86.02 | 10 min | 1.44 | 10 min | 1.26 | 20 min | 1.68 |
| SC-87.01 | 10 min | 1.10 | 10 min | 0.95 | 20 min | 1.21 |
| SC-87.02 | 10 min | 1.84 | 10 min | 1.59 | 20 min | 2.10 |
| SC-88.01 | 10 min | 0.49 | 10 min | 0.43 | 20 min | 0.55 |
| SC-88.02 | 10 min | 0.80 | 10 min | 0.70 | 20 min | 0.96 |
| SC-89.01 | 10 min | 0.54 | 10 min | 0.47 | 20 min | 0.60 |
| SC-89.02 | 10 min | 0.59 | 10 min | 0.51 | 20 min | 0.68 |
| SC-9.01 | 10 min | 0.71 | 10 min | 0.62 | 20 min | 0.78 |
| SC-90.01 | 10 min | 0.21 | 10 min | 0.19 | 20 min | 0.25 |
| SC-91.01 | 10 min | 0.64 | 10 min | 0.56 | 20 min | 0.68 |
| SC-91.02 | 10 min | 1.31 | 10 min | 1.14 | 20 min | 1.47 |
| SC-92.01 | 10 min | 0.63 | 10 min | 0.56 | 20 min | 0.73 |
| SC-92.02 | 10 min | 1.75 | 10 min | 1.63 | 20 min | 2.19 |
| SC-93.01 | 10 min | 0.69 | 10 min | 0.60 | 20 min | 0.77 |
| SC-94.01 | 10 min | 0.76 | 10 min | 0.67 | 20 min | 0.82 |
| SC-94.02 | 10 min | 1.75 | 10 min | 1.53 | 20 min | 2.00 |
| SC-95.01 | 10 min | 0.45 | 10 min | 0.39 | 20 min | 0.48 |
| SC-95.02 | 10 min | 1.09 | 10 min | 0.95 | 20 min | 1.19 |
| SC-96.01 | 10 min | 0.50 | 10 min | 0.44 | 20 min | 0.54 |
| SC-97.01 | 10 min | 0.34 | 10 min | 0.30 | 20 min | 0.36 |
| SC-97.02 | 10 min | 1.94 | 10 min | 1.71 | 20 min | 2.27 |
| SC-98.01 | 10 min | 0.59 | 10 min | 0.51 | 20 min | 0.65 |
| SC-99.01 | 10 min | 0.57 | 10 min | 0.50 | 20 min | 0.63 |
| SC-99.02 | 10 min | 1.54 | 10 min | 1.39 | 20 min | 1.80 |
| SC-99.03 | 10 min | 2.64 | 10 min | 2.42 | 20 min | 3.13 |

| Temporal Pattern Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Temporal Pattern Sensitivity Results | | | |
| | | | Low TP | | High TP | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-99.04 | 10 min | 7.03 | 10 min | 6.29 | 20 min | 8.26 |
| Dummy1 | 15 min | 35.32 | 10 min | 35.08 | 20 min | 38.55 |
| Dummy2 | 25 min | 55.39 | 20 min | 52.58 | 60 min | 57.86 |
| Dummy3 | 30 min | 106.76 | 20 min | 101.56 | 60 min | 120.73 |
| DummyOut | 1.50 hour | 113.93 | 60 min | 113.62 | 60 min | 137.52 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 10 min | 0.93 | 10 min | 0.96 | 10 min | 0.88 |
| SC-1.02 | 10 min | 2.00 | 10 min | 2.05 | 10 min | 1.95 |
| SC-1.03 | 10 min | 2.38 | 10 min | 2.41 | 10 min | 2.34 |
| SC-1.04 | 10 min | 6.27 | 10 min | 6.34 | 10 min | 6.19 |
| SC-1.05 | 10 min | 6.82 | 10 min | 6.89 | 10 min | 6.65 |
| SC-1.06 | 10 min | 7.79 | 10 min | 7.89 | 10 min | 7.71 |
| SC-1.07 | 10 min | 7.91 | 10 min | 8.09 | 10 min | 7.74 |
| SC-1.08 | 45 min | 8.71 | 45 min | 8.85 | 45 min | 8.54 |
| SC-1.09 | 45 min | 9.35 | 45 min | 9.47 | 45 min | 9.21 |
| SC-1.10 | 45 min | 9.36 | 45 min | 9.48 | 45 min | 9.23 |
| SC-1.11 | 10 min | 13.59 | 10 min | 13.80 | 10 min | 13.43 |
| SC-1.12 | 10 min | 16.99 | 10 min | 17.27 | 10 min | 16.78 |
| SC-1.13 | 10 min | 19.43 | 10 min | 19.83 | 10 min | 19.11 |
| SC-1.14 | 10 min | 23.13 | 10 min | 23.63 | 10 min | 22.68 |
| SC-1.15 | 10 min | 25.02 | 10 min | 25.59 | 10 min | 24.51 |
| SC-1.16 | 15 min | 28.64 | 15 min | 29.21 | 15 min | 28.11 |
| SC-1.17 | 15 min | 28.95 | 15 min | 29.54 | 15 min | 28.44 |
| SC-1.18 | 30 min | 18.10 | 30 min | 18.28 | 30 min | 17.92 |
| SC-1.19 | 1 hour | 22.75 | 1 hour | 22.94 | 1 hour | 22.51 |
| SC-1.20 | 1 hour | 20.73 | 1 hour | 20.86 | 1 hour | 20.60 |
| SC-1.21 | 1 hour | 20.74 | 1 hour | 20.87 | 1 hour | 20.62 |
| SC-1.22 | 1.50 hour | 20.92 | 1.50 hour | 21.06 | 1.50 hour | 20.80 |
| SC-1.23 | 1.50 hour | 23.45 | 1.50 hour | 23.72 | 1.50 hour | 23.25 |
| SC-1.24 | 20 min | 31.77 | 20 min | 32.24 | 20 min | 31.26 |
| SC-1.25 | 25 min | 32.54 | 25 min | 33.05 | 25 min | 31.93 |
| SC-1.26 | 25 min | 35.37 | 25 min | 35.98 | 25 min | 34.72 |
| SC-1.27 | 25 min | 35.95 | 25 min | 36.47 | 25 min | 35.34 |
| SC-1.28 | 15 min | 47.23 | 15 min | 48.05 | 15 min | 46.41 |
| SC-1.29 | 25 min | 49.56 | 25 min | 50.33 | 25 min | 48.85 |
| SC-1.30 | 25 min | 50.66 | 25 min | 51.52 | 25 min | 49.68 |
| SC-1.31 | 25 min | 51.58 | 25 min | 52.20 | 25 min | 50.80 |
| SC-1.32 | 25 min | 52.64 | 25 min | 53.19 | 25 min | 52.07 |
| SC-1.33 | 30 min | 54.45 | 30 min | 54.86 | 30 min | 53.92 |
| SC-1.34 | 30 min | 54.52 | 30 min | 54.90 | 30 min | 54.02 |
| SC-1.35 | 30 min | 54.65 | 30 min | 55.21 | 30 min | 54.19 |
| SC-1.36 | 30 min | 57.49 | 30 min | 57.94 | 30 min | 57.16 |
| SC-10.01 | 10 min | 0.97 | 10 min | 0.97 | 10 min | 0.95 |
| SC-100.01 | 10 min | 1.14 | 10 min | 1.15 | 10 min | 1.12 |
| SC-100.02 | 10 min | 1.95 | 10 min | 1.99 | 10 min | 1.92 |
| SC-101.01 | 10 min | 1.18 | 10 min | 1.21 | 10 min | 1.17 |
| SC-101.02 | 10 min | 2.05 | 10 min | 2.07 | 10 min | 2.07 |
| SC-102.01 | 10 min | 0.94 | 10 min | 0.95 | 10 min | 0.92 |
| SC-102.02 | 10 min | 3.50 | 10 min | 3.51 | 10 min | 3.48 |
| SC-103.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.63 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-103.02 | 10 min | 2.17 | 10 min | 2.19 | 10 min | 2.17 |
| SC-104.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-105.01 | 10 min | 0.60 | 10 min | 0.60 | 10 min | 0.60 |
| SC-105.02 | 10 min | 1.41 | 10 min | 1.42 | 10 min | 1.40 |
| SC-105.03 | 10 min | 3.29 | 10 min | 3.31 | 10 min | 3.27 |
| SC-105.04 | 10 min | 4.44 | 10 min | 4.47 | 10 min | 4.39 |
| SC-105.05 | 10 min | 5.26 | 10 min | 5.38 | 10 min | 5.18 |
| SC-105.06 | 10 min | 5.54 | 10 min | 5.73 | 10 min | 5.42 |
| SC-105.07 | 15 min | 8.11 | 10 min | 8.48 | 10 min | 8.15 |
| SC-105.08 | 15 min | 9.32 | 15 min | 9.58 | 10 min | 9.21 |
| SC-105.09 | 10 min | 12.28 | 10 min | 12.52 | 10 min | 12.10 |
| SC-106.01 | 10 min | 0.44 | 10 min | 0.44 | 10 min | 0.44 |
| SC-107.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.76 |
| SC-108.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-109.01 | 10 min | 0.73 | 10 min | 0.73 | 10 min | 0.72 |
| SC-11.01 | 10 min | 0.59 | 10 min | 0.60 | 10 min | 0.59 |
| SC-110.01 | 10 min | 0.67 | 10 min | 0.68 | 10 min | 0.65 |
| SC-110.02 | 10 min | 1.50 | 10 min | 1.52 | 10 min | 1.50 |
| SC-110.03 | 10 min | 1.64 | 10 min | 1.64 | 10 min | 1.61 |
| SC-111.01 | 20 min | 0.45 | 15 min | 0.48 | 20 min | 0.43 |
| SC-112.01 | 10 min | 1.13 | 10 min | 1.17 | 10 min | 1.07 |
| SC-113.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.40 |
| SC-113.02 | 10 min | 1.30 | 10 min | 1.31 | 10 min | 1.28 |
| SC-114.01 | 10 min | 0.71 | 10 min | 0.75 | 10 min | 0.69 |
| SC-114.02 | 10 min | 1.14 | 10 min | 1.15 | 10 min | 1.11 |
| SC-114.03 | 10 min | 2.34 | 10 min | 2.39 | 10 min | 2.32 |
| SC-115.01 | 10 min | 0.65 | 10 min | 0.66 | 10 min | 0.63 |
| SC-115.02 | 10 min | 1.04 | 10 min | 1.06 | 10 min | 1.02 |
| SC-116.01 | 10 min | 0.64 | 10 min | 0.66 | 10 min | 0.62 |
| SC-116.02 | 10 min | 1.03 | 10 min | 1.05 | 10 min | 1.02 |
| SC-117.01 | 10 min | 0.38 | 10 min | 0.38 | 10 min | 0.37 |
| SC-118.01 | 10 min | 0.83 | 10 min | 0.86 | 10 min | 0.79 |
| SC-119.01 | 10 min | 1.26 | 10 min | 1.32 | 10 min | 1.20 |
| SC-119.02 | 10 min | 3.14 | 10 min | 3.20 | 10 min | 3.07 |
| SC-12.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.68 |
| SC-12.02 | 10 min | 1.20 | 10 min | 1.22 | 10 min | 1.18 |
| SC-12.03 | 10 min | 2.19 | 10 min | 2.22 | 10 min | 2.17 |
| SC-12.04 | 10 min | 2.79 | 10 min | 2.79 | 10 min | 2.75 |
| SC-120.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.56 |
| SC-121.01 | 10 min | 0.71 | 10 min | 0.72 | 10 min | 0.69 |
| SC-122.01 | 10 min | 1.16 | 10 min | 1.18 | 10 min | 1.11 |
| SC-122.02 | 10 min | 1.79 | 10 min | 1.81 | 10 min | 1.77 |
| SC-122.03 | 10 min | 2.41 | 10 min | 2.43 | 10 min | 2.39 |
| SC-123.01 | 10 min | 0.58 | 10 min | 0.61 | 10 min | 0.55 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-123.02 | 10 min | 1.62 | 10 min | 1.67 | 10 min | 1.62 |
| SC-123.03 | 10 min | 10.91 | 10 min | 11.05 | 10 min | 10.73 |
| SC-123.04 | 10 min | 11.19 | 10 min | 11.33 | 10 min | 11.00 |
| SC-123.05 | 10 min | 14.12 | 10 min | 14.52 | 10 min | 13.88 |
| SC-123.06 | 10 min | 14.54 | 10 min | 14.78 | 10 min | 14.28 |
| SC-123.07 | 10 min | 15.60 | 10 min | 15.93 | 10 min | 15.29 |
| SC-124.01 | 20 min | 0.70 | 20 min | 0.75 | 20 min | 0.66 |
| SC-124.02 | 20 min | 4.51 | 20 min | 4.68 | 20 min | 4.36 |
| SC-125.01 | 20 min | 0.97 | 20 min | 1.01 | 20 min | 0.91 |
| SC-126.01 | 10 min | 0.54 | 10 min | 0.55 | 10 min | 0.52 |
| SC-126.02 | 20 min | 1.30 | 20 min | 1.38 | 20 min | 1.20 |
| SC-126.03 | 20 min | 2.40 | 20 min | 2.46 | 20 min | 2.31 |
| SC-127.01 | 10 min | 1.28 | 10 min | 1.31 | 10 min | 1.23 |
| SC-127.02 | 10 min | 3.43 | 10 min | 3.47 | 10 min | 3.35 |
| SC-128.01 | 10 min | 1.25 | 10 min | 1.30 | 10 min | 1.19 |
| SC-129.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.60 |
| SC-13.01 | 10 min | 0.63 | 10 min | 0.64 | 10 min | 0.62 |
| SC-130.01 | 10 min | 0.94 | 10 min | 0.95 | 10 min | 0.91 |
| SC-131.01 | 10 min | 0.37 | 10 min | 0.37 | 10 min | 0.37 |
| SC-132.01 | 10 min | 0.52 | 10 min | 0.52 | 10 min | 0.51 |
| SC-133.01 | 10 min | 0.38 | 10 min | 0.39 | 10 min | 0.37 |
| SC-134.01 | 10 min | 0.32 | 10 min | 0.32 | 10 min | 0.30 |
| SC-134.02 | 10 min | 1.02 | 10 min | 1.06 | 10 min | 0.98 |
| SC-134.03 | 10 min | 2.07 | 10 min | 2.18 | 10 min | 1.97 |
| SC-134.04 | 10 min | 2.93 | 10 min | 3.17 | 20 min | 2.57 |
| SC-135.01 | 10 min | 0.25 | 10 min | 0.25 | 10 min | 0.25 |
| SC-135.02 | 10 min | 1.39 | 10 min | 1.43 | 10 min | 1.38 |
| SC-135.03 | 10 min | 1.83 | 10 min | 1.87 | 10 min | 1.83 |
| SC-135.04 | 10 min | 4.06 | 10 min | 4.12 | 10 min | 3.99 |
| SC-135.05 | 10 min | 4.60 | 10 min | 4.69 | 10 min | 4.54 |
| SC-135.06 | 10 min | 7.50 | 10 min | 7.57 | 10 min | 7.42 |
| SC-136.01 | 10 min | 0.76 | 10 min | 0.77 | 10 min | 0.74 |
| SC-137.01 | 10 min | 0.77 | 10 min | 0.81 | 10 min | 0.74 |
| SC-138.01 | 10 min | 0.92 | 10 min | 0.97 | 10 min | 0.92 |
| SC-139.01 | 10 min | 0.90 | 10 min | 0.92 | 10 min | 0.87 |
| SC-139.02 | 10 min | 1.09 | 10 min | 1.12 | 10 min | 1.07 |
| SC-14.01 | 10 min | 1.11 | 10 min | 1.13 | 10 min | 1.08 |
| SC-14.02 | 10 min | 1.69 | 10 min | 1.73 | 10 min | 1.68 |
| SC-14.03 | 10 min | 2.21 | 10 min | 2.24 | 10 min | 2.19 |
| SC-140.01 | 10 min | 0.64 | 10 min | 0.66 | 10 min | 0.61 |
| SC-141.01 | 10 min | 1.04 | 10 min | 1.07 | 10 min | 0.98 |
| SC-142.01 | 20 min | 1.55 | 15 min | 1.58 | 20 min | 1.49 |
| SC-143.01 | 20 min | 0.61 | 20 min | 0.64 | 20 min | 0.57 |
| SC-143.02 | 10 min | 4.94 | 10 min | 5.17 | 10 min | 4.71 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-144.01 | 10 min | 0.73 | 10 min | 0.77 | 10 min | 0.70 |
| SC-144.02 | 10 min | 1.04 | 10 min | 1.08 | 10 min | 1.01 |
| SC-144.03 | 10 min | 1.38 | 10 min | 1.44 | 10 min | 1.34 |
| SC-144.04 | 10 min | 2.44 | 10 min | 2.53 | 10 min | 2.38 |
| SC-144.05 | 10 min | 4.60 | 10 min | 4.75 | 10 min | 4.47 |
| SC-145.01 | 10 min | 0.94 | 10 min | 1.00 | 10 min | 0.93 |
| SC-145.02 | 10 min | 1.74 | 10 min | 1.80 | 10 min | 1.69 |
| SC-146.01 | 15 min | 1.75 | 15 min | 1.88 | 20 min | 1.69 |
| SC-147.01 | 10 min | 0.92 | 10 min | 0.97 | 10 min | 0.84 |
| SC-147.02 | 10 min | 1.25 | 10 min | 1.34 | 15 min | 1.10 |
| SC-147.03 | 10 min | 3.19 | 10 min | 3.29 | 10 min | 3.07 |
| SC-148.01 | 10 min | 0.78 | 10 min | 0.78 | 10 min | 0.77 |
| SC-148.02 | 10 min | 1.67 | 10 min | 1.69 | 10 min | 1.64 |
| SC-149.01 | 10 min | 0.56 | 10 min | 0.59 | 10 min | 0.54 |
| SC-149.02 | 10 min | 1.83 | 10 min | 1.86 | 10 min | 1.76 |
| SC-15.01 | 10 min | 1.13 | 10 min | 1.17 | 10 min | 1.07 |
| SC-15.02 | 10 min | 1.48 | 10 min | 1.51 | 10 min | 1.43 |
| SC-15.03 | 10 min | 2.33 | 10 min | 2.40 | 10 min | 2.27 |
| SC-150.01 | 10 min | 0.68 | 10 min | 0.68 | 10 min | 0.67 |
| SC-150.02 | 10 min | 1.31 | 10 min | 1.34 | 10 min | 1.29 |
| SC-150.03 | 10 min | 3.32 | 10 min | 3.39 | 10 min | 3.29 |
| SC-150.04 | 10 min | 4.30 | 10 min | 4.37 | 10 min | 4.29 |
| SC-150.05 | 10 min | 5.94 | 10 min | 6.07 | 10 min | 5.93 |
| SC-150.06 | 10 min | 11.00 | 10 min | 11.10 | 10 min | 10.92 |
| SC-150.07 | 10 min | 17.06 | 10 min | 17.35 | 10 min | 17.11 |
| SC-150.08 | 2 hours | 9.68 | 2 hours | 9.78 | 2 hours | 9.60 |
| SC-150.09 | 2 hours | 10.19 | 2 hours | 10.29 | 2 hours | 10.13 |
| SC-150.10 | 2 hours | 12.14 | 2 hours | 12.59 | 2 hours | 12.07 |
| SC-150.11 | 10 min | 18.60 | 10 min | 18.84 | 10 min | 18.41 |
| SC-150.12 | 10 min | 29.36 | 10 min | 29.83 | 10 min | 28.94 |
| SC-150.13 | 15 min | 33.27 | 15 min | 33.82 | 15 min | 32.78 |
| SC-150.14 | 15 min | 49.84 | 15 min | 51.74 | 15 min | 48.02 |
| SC-150.15 | 15 min | 50.19 | 15 min | 51.99 | 15 min | 48.46 |
| SC-150.16 | 15 min | 52.64 | 15 min | 54.17 | 15 min | 51.27 |
| SC-150.17 | 15 min | 53.46 | 15 min | 54.75 | 15 min | 52.30 |
| SC-151.01 | 10 min | 0.91 | 10 min | 0.93 | 10 min | 0.88 |
| SC-151.02 | 10 min | 1.38 | 10 min | 1.40 | 10 min | 1.36 |
| SC-152.01 | 10 min | 0.80 | 10 min | 0.84 | 10 min | 0.76 |
| SC-153.01 | 10 min | 0.65 | 10 min | 0.64 | 10 min | 0.64 |
| SC-153.02 | 10 min | 1.52 | 10 min | 1.54 | 10 min | 1.52 |
| SC-154.01 | 10 min | 1.19 | 10 min | 1.24 | 10 min | 1.13 |
| SC-154.02 | 10 min | 3.98 | 10 min | 4.03 | 10 min | 3.98 |
| SC-155.01 | 10 min | 0.43 | 10 min | 0.44 | 10 min | 0.43 |
| SC-155.02 | 10 min | 1.25 | 10 min | 1.27 | 10 min | 1.24 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-156.01 | 10 min | 0.49 | 10 min | 0.51 | 10 min | 0.47 |
| SC-157.01 | 10 min | 0.57 | 10 min | 0.60 | 10 min | 0.58 |
| SC-158.01 | 10 min | 0.77 | 10 min | 0.78 | 10 min | 0.75 |
| SC-158.02 | 10 min | 0.98 | 10 min | 1.00 | 10 min | 0.96 |
| SC-158.03 | 10 min | 2.13 | 10 min | 2.15 | 10 min | 2.09 |
| SC-158.04 | 10 min | 3.96 | 10 min | 4.04 | 10 min | 3.92 |
| SC-159.01 | 10 min | 0.61 | 10 min | 0.62 | 10 min | 0.59 |
| SC-16.01 | 10 min | 0.73 | 10 min | 0.74 | 10 min | 0.72 |
| SC-160.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-160.02 | 10 min | 1.32 | 10 min | 1.35 | 10 min | 1.30 |
| SC-161.01 | 10 min | 0.72 | 10 min | 0.73 | 10 min | 0.71 |
| SC-161.02 | 10 min | 1.36 | 10 min | 1.37 | 10 min | 1.36 |
| SC-162.01 | 10 min | 0.84 | 10 min | 0.89 | 10 min | 0.82 |
| SC-163.01 | 10 min | 0.47 | 10 min | 0.50 | 10 min | 0.45 |
| SC-163.02 | 10 min | 0.90 | 10 min | 0.94 | 10 min | 0.88 |
| SC-163.03 | 10 min | 1.48 | 10 min | 1.50 | 10 min | 1.48 |
| SC-163.04 | 10 min | 2.11 | 10 min | 2.12 | 10 min | 2.09 |
| SC-163.05 | 10 min | 3.65 | 10 min | 3.68 | 10 min | 3.62 |
| SC-164.01 | 10 min | 0.72 | 10 min | 0.77 | 10 min | 0.73 |
| SC-165.01 | 10 min | 0.62 | 10 min | 0.66 | 10 min | 0.62 |
| SC-165.02 | 10 min | 1.60 | 10 min | 1.67 | 10 min | 1.60 |
| SC-165.03 | 10 min | 2.09 | 10 min | 2.13 | 10 min | 2.08 |
| SC-165.04 | 10 min | 4.46 | 10 min | 4.54 | 10 min | 4.45 |
| SC-165.05 | 10 min | 7.50 | 10 min | 7.60 | 10 min | 7.43 |
| SC-166.01 | 10 min | 0.56 | 10 min | 0.59 | 10 min | 0.57 |
| SC-167.01 | 10 min | 0.85 | 10 min | 0.85 | 10 min | 0.84 |
| SC-167.02 | 10 min | 2.15 | 10 min | 2.18 | 10 min | 2.12 |
| SC-168.01 | 10 min | 0.70 | 10 min | 0.72 | 10 min | 0.66 |
| SC-169.01 | 10 min | 0.63 | 10 min | 0.66 | 10 min | 0.63 |
| SC-169.02 | 10 min | 1.16 | 10 min | 1.19 | 10 min | 1.15 |
| SC-169.03 | 10 min | 2.62 | 10 min | 2.65 | 10 min | 2.57 |
| SC-17.01 | 10 min | 0.64 | 10 min | 0.65 | 10 min | 0.63 |
| SC-17.02 | 10 min | 1.10 | 10 min | 1.12 | 10 min | 1.09 |
| SC-17.03 | 10 min | 1.84 | 10 min | 1.88 | 10 min | 1.81 |
| SC-17.04 | 10 min | 4.38 | 10 min | 4.42 | 10 min | 4.33 |
| SC-17.05 | 10 min | 6.01 | 10 min | 6.07 | 10 min | 5.96 |
| SC-17.06 | 10 min | 6.75 | 10 min | 6.84 | 10 min | 6.69 |
| SC-17.07 | 10 min | 7.26 | 10 min | 7.37 | 10 min | 7.18 |
| SC-170.01 | 10 min | 0.57 | 10 min | 0.60 | 10 min | 0.55 |
| SC-171.01 | 10 min | 0.41 | 10 min | 0.42 | 10 min | 0.40 |
| SC-172.01 | 10 min | 0.82 | 10 min | 0.82 | 10 min | 0.82 |
| SC-172.02 | 10 min | 1.38 | 10 min | 1.37 | 10 min | 1.40 |
| SC-173.01 | 20 min | 0.89 | 20 min | 1.04 | 30 min | 0.77 |
| SC-173.02 | 20 min | 1.79 | 20 min | 1.97 | 20 min | 1.66 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-173.03 | 20 min | 1.85 | 20 min | 1.98 | 20 min | 1.72 |
| SC-173.04 | 10 min | 3.07 | 20 min | 3.17 | 10 min | 2.98 |
| SC-173.05 | 10 min | 3.58 | 10 min | 3.66 | 10 min | 3.48 |
| SC-174.01 | 10 min | 0.53 | 10 min | 0.54 | 10 min | 0.51 |
| SC-175.01 | 10 min | 0.92 | 10 min | 0.93 | 10 min | 0.89 |
| SC-175.02 | 10 min | 1.86 | 10 min | 1.90 | 10 min | 1.81 |
| SC-175.03 | 10 min | 2.99 | 10 min | 3.05 | 10 min | 2.93 |
| SC-175.04 | 10 min | 3.67 | 10 min | 3.71 | 10 min | 3.59 |
| SC-175.05 | 10 min | 4.12 | 10 min | 4.18 | 10 min | 4.06 |
| SC-176.01 | 10 min | 0.38 | 10 min | 0.40 | 10 min | 0.37 |
| SC-177.01 | 10 min | 0.51 | 10 min | 0.51 | 10 min | 0.51 |
| SC-177.02 | 10 min | 1.34 | 10 min | 1.35 | 10 min | 1.33 |
| SC-177.03 | 10 min | 3.68 | 10 min | 3.76 | 10 min | 3.63 |
| SC-177.04 | 10 min | 5.02 | 10 min | 5.17 | 10 min | 4.92 |
| SC-178.01 | 10 min | 1.12 | 10 min | 1.16 | 10 min | 1.06 |
| SC-178.02 | 10 min | 1.66 | 10 min | 1.71 | 10 min | 1.63 |
| SC-179.01 | 10 min | 0.91 | 10 min | 0.93 | 10 min | 0.89 |
| SC-18.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.70 |
| SC-18.02 | 10 min | 1.11 | 10 min | 1.12 | 10 min | 1.11 |
| SC-180.01 | 10 min | 0.88 | 10 min | 0.91 | 10 min | 0.84 |
| SC-180.02 | 10 min | 1.49 | 10 min | 1.54 | 10 min | 1.47 |
| SC-180.03 | 10 min | 2.09 | 10 min | 2.14 | 10 min | 2.06 |
| SC-180.04 | 10 min | 3.02 | 10 min | 3.09 | 10 min | 2.98 |
| SC-181.01 | 20 min | 0.38 | 20 min | 0.39 | 20 min | 0.37 |
| SC-181.02 | 10 min | 1.25 | 10 min | 1.26 | 10 min | 1.24 |
| SC-181.03 | 10 min | 2.04 | 10 min | 2.10 | 10 min | 2.00 |
| SC-181.04 | 10 min | 3.79 | 10 min | 3.88 | 10 min | 3.69 |
| SC-181.05 | 10 min | 4.08 | 10 min | 4.16 | 10 min | 4.01 |
| SC-181.06 | 10 min | 4.55 | 10 min | 4.64 | 10 min | 4.45 |
| SC-181.07 | 10 min | 10.03 | 10 min | 10.21 | 10 min | 9.91 |
| SC-181.08 | 10 min | 10.40 | 10 min | 10.60 | 10 min | 10.28 |
| SC-182.01 | 10 min | 0.62 | 10 min | 0.63 | 10 min | 0.60 |
| SC-182.02 | 10 min | 1.00 | 10 min | 1.01 | 10 min | 0.97 |
| SC-182.03 | 10 min | 1.56 | 10 min | 1.62 | 10 min | 1.54 |
| SC-183.01 | 10 min | 0.59 | 10 min | 0.60 | 10 min | 0.58 |
| SC-183.02 | 10 min | 1.34 | 10 min | 1.38 | 10 min | 1.31 |
| SC-183.03 | 10 min | 3.32 | 10 min | 3.39 | 10 min | 3.26 |
| SC-183.04 | 10 min | 3.79 | 10 min | 3.86 | 10 min | 3.73 |
| SC-184.01 | 10 min | 1.43 | 10 min | 1.48 | 10 min | 1.38 |
| SC-185.01 | 10 min | 0.86 | 10 min | 0.87 | 10 min | 0.83 |
| SC-185.02 | 10 min | 1.89 | 10 min | 1.94 | 10 min | 1.83 |
| SC-186.01 | 10 min | 0.30 | 10 min | 0.30 | 10 min | 0.30 |
| SC-187.01 | 10 min | 0.87 | 10 min | 0.87 | 10 min | 0.85 |
| SC-187.02 | 10 min | 1.67 | 10 min | 1.71 | 10 min | 1.64 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-187.03 | 10 min | 1.97 | 10 min | 1.99 | 10 min | 1.95 |
| SC-187.04 | 10 min | 2.46 | 10 min | 2.50 | 10 min | 2.42 |
| SC-187.05 | 10 min | 2.93 | 10 min | 2.97 | 10 min | 2.89 |
| SC-188.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.90 |
| SC-188.02 | 10 min | 1.33 | 10 min | 1.36 | 10 min | 1.32 |
| SC-189.01 | 10 min | 1.03 | 10 min | 1.05 | 10 min | 1.01 |
| SC-189.02 | 10 min | 1.83 | 10 min | 1.84 | 10 min | 1.82 |
| SC-19.01 | 10 min | 0.41 | 10 min | 0.42 | 10 min | 0.42 |
| SC-190.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.45 |
| SC-191.01 | 10 min | 0.83 | 10 min | 0.83 | 10 min | 0.82 |
| SC-191.02 | 10 min | 1.19 | 10 min | 1.21 | 10 min | 1.17 |
| SC-191.03 | 10 min | 2.18 | 10 min | 2.24 | 10 min | 2.15 |
| SC-191.04 | 10 min | 3.18 | 10 min | 3.27 | 10 min | 3.15 |
| SC-191.05 | 10 min | 4.45 | 10 min | 4.46 | 10 min | 4.38 |
| SC-191.06 | 10 min | 7.65 | 10 min | 7.62 | 10 min | 7.51 |
| SC-191.07 | 10 min | 9.11 | 10 min | 9.27 | 10 min | 9.09 |
| SC-191.08 | 10 min | 9.97 | 15 min | 9.90 | 10 min | 9.88 |
| SC-192.01 | 10 min | 2.59 | 10 min | 2.73 | 10 min | 2.57 |
| SC-193.01 | 10 min | 1.18 | 10 min | 1.22 | 10 min | 1.12 |
| SC-194.01 | 10 min | 1.18 | 10 min | 1.24 | 10 min | 1.15 |
| SC-194.02 | 20 min | 4.77 | 20 min | 5.33 | 20 min | 4.29 |
| SC-194.03 | 20 min | 4.95 | 20 min | 5.59 | 20 min | 4.47 |
| SC-195.01 | 20 min | 1.67 | 20 min | 1.85 | 20 min | 1.44 |
| SC-196.01 | 10 min | 3.86 | 10 min | 4.07 | 10 min | 3.70 |
| SC-197.01 | 10 min | 2.47 | 10 min | 2.66 | 10 min | 2.43 |
| SC-198.01 | 20 min | 2.40 | 15 min | 2.56 | 20 min | 2.30 |
| SC-2.01 | 10 min | 0.53 | 10 min | 0.57 | 10 min | 0.52 |
| SC-20.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-200.01 | 10 min | 0.80 | 10 min | 0.85 | 10 min | 0.81 |
| SC-200.02 | 10 min | 1.41 | 10 min | 1.45 | 10 min | 1.39 |
| SC-200.03 | 10 min | 2.63 | 10 min | 2.70 | 10 min | 2.60 |
| SC-200.04 | 10 min | 3.84 | 10 min | 3.94 | 10 min | 3.75 |
| SC-200.05 | 10 min | 6.29 | 10 min | 6.42 | 10 min | 6.17 |
| SC-200.06 | 10 min | 9.51 | 10 min | 10.05 | 10 min | 9.05 |
| SC-200.07 | 10 min | 11.17 | 10 min | 11.80 | 10 min | 10.58 |
| SC-200.08 | 10 min | 12.58 | 10 min | 13.33 | 15 min | 11.99 |
| SC-200.09 | 15 min | 18.58 | 10 min | 20.03 | 15 min | 17.89 |
| SC-201.01 | 10 min | 1.02 | 10 min | 1.05 | 10 min | 0.98 |
| SC-202.01 | 10 min | 1.05 | 10 min | 1.08 | 10 min | 1.00 |
| SC-203.01 | 10 min | 1.04 | 10 min | 1.05 | 10 min | 1.02 |
| SC-204.01 | 10 min | 1.36 | 10 min | 1.41 | 10 min | 1.29 |
| SC-205.01 | 20 min | 0.55 | 15 min | 0.55 | 20 min | 0.53 |
| SC-206.01 | 10 min | 4.38 | 10 min | 4.78 | 15 min | 3.63 |
| SC-207.01 | 10 min | 0.98 | 10 min | 1.04 | 10 min | 0.98 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-207.02 | 10 min | 1.89 | 10 min | 1.96 | 10 min | 1.91 |
| SC-207.03 | 10 min | 2.11 | 10 min | 2.20 | 10 min | 2.08 |
| SC-207.04 | 10 min | 5.77 | 10 min | 5.82 | 10 min | 5.72 |
| SC-207.05 | 10 min | 7.61 | 10 min | 7.72 | 10 min | 7.56 |
| SC-207.06 | 10 min | 8.34 | 10 min | 8.50 | 10 min | 8.23 |
| SC-207.07 | 10 min | 13.97 | 10 min | 14.46 | 10 min | 13.57 |
| SC-207.08 | 10 min | 20.74 | 10 min | 21.32 | 10 min | 20.24 |
| SC-207.09 | 10 min | 23.77 | 10 min | 24.48 | 10 min | 23.11 |
| SC-207.10 | 15 min | 24.60 | 15 min | 25.25 | 15 min | 23.95 |
| SC-207.11 | 15 min | 26.60 | 15 min | 27.30 | 15 min | 25.89 |
| SC-207.12 | 15 min | 38.54 | 15 min | 39.51 | 15 min | 37.54 |
| SC-207.13 | 15 min | 40.73 | 15 min | 41.70 | 15 min | 39.70 |
| SC-207.14 | 15 min | 41.81 | 15 min | 42.78 | 15 min | 40.95 |
| SC-208.01 | 10 min | 1.08 | 10 min | 1.09 | 10 min | 1.05 |
| SC-208.02 | 10 min | 1.51 | 10 min | 1.51 | 10 min | 1.50 |
| SC-208.03 | 10 min | 2.00 | 10 min | 2.02 | 10 min | 1.98 |
| SC-208.04 | 10 min | 3.12 | 10 min | 3.16 | 10 min | 3.12 |
| SC-208.05 | 10 min | 3.57 | 10 min | 3.62 | 10 min | 3.55 |
| SC-209.01 | 10 min | 0.66 | 10 min | 0.66 | 10 min | 0.67 |
| SC-21.01 | 10 min | 0.80 | 10 min | 0.80 | 10 min | 0.79 |
| SC-210.01 | 10 min | 1.49 | 10 min | 1.55 | 10 min | 1.42 |
| SC-210.02 | 10 min | 2.04 | 10 min | 2.09 | 10 min | 1.99 |
| SC-211.01 | 20 min | 0.56 | 20 min | 0.62 | 20 min | 0.50 |
| SC-211.02 | 25 min | 1.25 | 20 min | 1.41 | 30 min | 1.08 |
| SC-211.03 | 20 min | 1.92 | 20 min | 2.20 | 25 min | 1.76 |
| SC-211.04 | 20 min | 2.29 | 20 min | 2.58 | 20 min | 2.07 |
| SC-212.01 | 1 hour | 0.21 | 45 min | 0.24 | 1 hour | 0.18 |
| SC-212.02 | 20 min | 0.43 | 20 min | 0.47 | 20 min | 0.39 |
| SC-213.01 | 10 min | 0.62 | 10 min | 0.61 | 10 min | 0.61 |
| SC-213.02 | 10 min | 1.02 | 10 min | 1.04 | 10 min | 1.00 |
| SC-214.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.75 |
| SC-214.02 | 10 min | 1.64 | 10 min | 1.64 | 10 min | 1.62 |
| SC-215.01 | 10 min | 0.60 | 10 min | 0.64 | 10 min | 0.58 |
| SC-215.02 | 10 min | 1.08 | 10 min | 1.11 | 10 min | 1.06 |
| SC-216.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.56 |
| SC-216.02 | 10 min | 1.73 | 10 min | 1.71 | 10 min | 1.73 |
| SC-216.03 | 10 min | 2.69 | 10 min | 2.70 | 10 min | 2.70 |
| SC-216.04 | 10 min | 3.73 | 10 min | 3.82 | 10 min | 3.67 |
| SC-217.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.40 |
| SC-218.01 | 10 min | 0.31 | 10 min | 0.31 | 10 min | 0.31 |
| SC-219.01 | 10 min | 0.41 | 10 min | 0.41 | 10 min | 0.41 |
| SC-22.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.44 |
| SC-220.01 | 10 min | 0.63 | 10 min | 0.63 | 10 min | 0.61 |
| SC-221.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.57 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-221.02 | 10 min | 1.23 | 10 min | 1.24 | 10 min | 1.22 |
| SC-221.03 | 10 min | 1.51 | 10 min | 1.53 | 10 min | 1.50 |
| SC-221.04 | 10 min | 2.21 | 10 min | 2.25 | 10 min | 2.20 |
| SC-221.05 | 10 min | 2.86 | 10 min | 2.86 | 10 min | 2.81 |
| SC-221.06 | 10 min | 2.99 | 10 min | 3.05 | 10 min | 2.97 |
| SC-222.01 | 10 min | 0.63 | 10 min | 0.64 | 10 min | 0.60 |
| SC-222.02 | 10 min | 0.98 | 10 min | 1.01 | 10 min | 0.97 |
| SC-222.03 | 10 min | 2.17 | 10 min | 2.25 | 10 min | 2.08 |
| SC-223.01 | 10 min | 0.27 | 10 min | 0.27 | 10 min | 0.26 |
| SC-224.01 | 15 min | 0.71 | 10 min | 0.83 | 20 min | 0.66 |
| SC-225.01 | 10 min | 0.50 | 10 min | 0.52 | 10 min | 0.47 |
| SC-226.01 | 10 min | 0.37 | 10 min | 0.37 | 10 min | 0.37 |
| SC-226.02 | 10 min | 0.85 | 10 min | 0.86 | 10 min | 0.84 |
| SC-226.03 | 10 min | 1.75 | 10 min | 1.77 | 10 min | 1.75 |
| SC-226.04 | 10 min | 2.63 | 10 min | 2.67 | 10 min | 2.60 |
| SC-226.05 | 10 min | 10.48 | 10 min | 10.64 | 10 min | 10.27 |
| SC-226.06 | 10 min | 11.44 | 10 min | 11.57 | 10 min | 11.35 |
| SC-226.07 | 10 min | 12.46 | 10 min | 12.64 | 10 min | 12.30 |
| SC-226.08 | 10 min | 13.12 | 10 min | 13.29 | 10 min | 12.93 |
| SC-227.01 | 10 min | 0.19 | 10 min | 0.19 | 10 min | 0.19 |
| SC-228.01 | 10 min | 0.41 | 10 min | 0.42 | 10 min | 0.40 |
| SC-229.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.28 |
| SC-23.01 | 10 min | 0.59 | 10 min | 0.58 | 10 min | 0.58 |
| SC-23.02 | 10 min | 1.71 | 10 min | 1.72 | 10 min | 1.70 |
| SC-23.03 | 10 min | 2.09 | 10 min | 2.12 | 10 min | 2.08 |
| SC-230.01 | 10 min | 0.28 | 10 min | 0.30 | 10 min | 0.27 |
| SC-231.01 | 10 min | 0.31 | 10 min | 0.33 | 10 min | 0.30 |
| SC-232.01 | 10 min | 0.77 | 10 min | 0.81 | 10 min | 0.79 |
| SC-232.02 | 10 min | 1.22 | 10 min | 1.23 | 10 min | 1.22 |
| SC-232.03 | 10 min | 2.85 | 10 min | 2.91 | 10 min | 2.80 |
| SC-233.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.54 |
| SC-233.02 | 10 min | 0.90 | 10 min | 0.92 | 10 min | 0.89 |
| SC-234.01 | 10 min | 0.80 | 10 min | 0.83 | 10 min | 0.77 |
| SC-234.02 | 10 min | 1.53 | 10 min | 1.54 | 10 min | 1.51 |
| SC-234.03 | 10 min | 4.50 | 10 min | 4.52 | 10 min | 4.44 |
| SC-235.01 | 10 min | 0.30 | 10 min | 0.30 | 10 min | 0.29 |
| SC-236.01 | 10 min | 0.38 | 10 min | 0.39 | 10 min | 0.37 |
| SC-236.02 | 10 min | 0.58 | 10 min | 0.59 | 10 min | 0.56 |
| SC-237.01 | 10 min | 0.51 | 10 min | 0.52 | 10 min | 0.49 |
| SC-237.02 | 10 min | 1.04 | 10 min | 1.12 | 10 min | 1.01 |
| SC-238.01 | 10 min | 0.33 | 10 min | 0.33 | 10 min | 0.33 |
| SC-238.02 | 10 min | 0.75 | 10 min | 0.75 | 10 min | 0.75 |
| SC-239.01 | 10 min | 0.42 | 10 min | 0.43 | 10 min | 0.42 |
| SC-24.01 | 10 min | 0.51 | 10 min | 0.51 | 10 min | 0.51 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-240.01 | 20 min | 1.10 | 20 min | 1.18 | 20 min | 0.97 |
| SC-240.02 | 20 min | 1.56 | 20 min | 1.71 | 20 min | 1.43 |
| SC-241.01 | 15 min | 4.53 | 10 min | 5.45 | 15 min | 4.25 |
| SC-242.01 | 10 min | 0.59 | 10 min | 0.60 | 10 min | 0.59 |
| SC-242.02 | 10 min | 1.50 | 10 min | 1.52 | 10 min | 1.48 |
| SC-242.03 | 10 min | 2.22 | 10 min | 2.27 | 10 min | 2.22 |
| SC-242.04 | 10 min | 2.36 | 10 min | 2.40 | 10 min | 2.35 |
| SC-242.05 | 10 min | 5.23 | 10 min | 5.32 | 10 min | 5.17 |
| SC-242.06 | 10 min | 6.67 | 10 min | 6.75 | 10 min | 6.61 |
| SC-242.07 | 10 min | 7.14 | 10 min | 7.34 | 10 min | 7.00 |
| SC-242.08 | 10 min | 14.04 | 10 min | 14.96 | 10 min | 13.24 |
| SC-243.01 | 10 min | 0.56 | 10 min | 0.58 | 10 min | 0.54 |
| SC-243.02 | 10 min | 2.04 | 10 min | 2.05 | 10 min | 1.99 |
| SC-244.01 | 10 min | 0.79 | 10 min | 0.81 | 10 min | 0.77 |
| SC-245.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.40 |
| SC-246.01 | 10 min | 0.28 | 10 min | 0.29 | 10 min | 0.27 |
| SC-246.02 | 10 min | 0.72 | 10 min | 0.74 | 10 min | 0.69 |
| SC-247.01 | 10 min | 0.75 | 10 min | 0.74 | 10 min | 0.73 |
| SC-247.02 | 10 min | 1.89 | 10 min | 2.01 | 15 min | 1.61 |
| SC-248.01 | 10 min | 0.94 | 10 min | 1.01 | 15 min | 0.79 |
| SC-249.01 | 20 min | 0.22 | 20 min | 0.23 | 20 min | 0.19 |
| SC-249.02 | 20 min | 0.63 | 20 min | 0.65 | 20 min | 0.61 |
| SC-249.03 | 10 min | 1.29 | 10 min | 1.36 | 10 min | 1.26 |
| SC-249.04 | 10 min | 3.25 | 10 min | 3.25 | 10 min | 3.25 |
| SC-249.05 | 10 min | 9.49 | 10 min | 9.65 | 10 min | 9.40 |
| SC-249.06 | 10 min | 16.08 | 10 min | 17.40 | 15 min | 14.64 |
| SC-25.01 | 10 min | 1.56 | 10 min | 1.57 | 10 min | 1.53 |
| SC-25.02 | 10 min | 2.19 | 10 min | 2.23 | 10 min | 2.16 |
| SC-25.03 | 10 min | 2.38 | 10 min | 2.41 | 10 min | 2.36 |
| SC-25.04 | 10 min | 4.00 | 10 min | 4.12 | 10 min | 3.92 |
| SC-250.01 | 10 min | 0.18 | 10 min | 0.18 | 10 min | 0.18 |
| SC-251.01 | 10 min | 0.43 | 10 min | 0.45 | 10 min | 0.42 |
| SC-252.01 | 10 min | 0.49 | 10 min | 0.51 | 10 min | 0.47 |
| SC-252.02 | 10 min | 0.92 | 10 min | 0.95 | 10 min | 0.90 |
| SC-253.01 | 10 min | 0.74 | 10 min | 0.76 | 10 min | 0.71 |
| SC-253.02 | 10 min | 2.64 | 10 min | 2.68 | 10 min | 2.61 |
| SC-253.03 | 10 min | 3.23 | 10 min | 3.23 | 10 min | 3.18 |
| SC-254.01 | 10 min | 0.74 | 10 min | 0.77 | 10 min | 0.71 |
| SC-255.01 | 10 min | 0.69 | 10 min | 0.72 | 10 min | 0.66 |
| SC-256.01 | 10 min | 0.61 | 10 min | 0.62 | 10 min | 0.60 |
| SC-257.01 | 10 min | 0.35 | 10 min | 0.35 | 10 min | 0.34 |
| SC-258.01 | 10 min | 1.58 | 10 min | 1.58 | 10 min | 1.55 |
| SC-258.02 | 10 min | 2.63 | 10 min | 2.76 | 10 min | 2.46 |
| SC-259.01 | 10 min | 0.68 | 10 min | 0.68 | 10 min | 0.66 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-259.02 | 10 min | 1.40 | 10 min | 1.42 | 10 min | 1.41 |
| SC-259.03 | 10 min | 1.99 | 10 min | 2.02 | 10 min | 1.96 |
| SC-259.04 | 10 min | 3.62 | 10 min | 3.64 | 10 min | 3.61 |
| SC-259.05 | 10 min | 4.41 | 10 min | 4.51 | 10 min | 4.35 |
| SC-259.06 | 10 min | 5.69 | 10 min | 5.82 | 10 min | 5.58 |
| SC-259.07 | 10 min | 7.17 | 10 min | 7.23 | 10 min | 7.13 |
| SC-259.08 | 10 min | 8.57 | 10 min | 8.73 | 10 min | 8.37 |
| SC-259.09 | 10 min | 22.34 | 10 min | 23.15 | 10 min | 21.47 |
| SC-259.10 | 10 min | 22.72 | 10 min | 23.48 | 10 min | 21.88 |
| SC-26.01 | 10 min | 0.48 | 10 min | 0.48 | 10 min | 0.47 |
| SC-260.01 | 10 min | 0.45 | 10 min | 0.46 | 10 min | 0.44 |
| SC-261.01 | 10 min | 0.58 | 10 min | 0.58 | 10 min | 0.58 |
| SC-262.01 | 10 min | 0.66 | 10 min | 0.68 | 10 min | 0.64 |
| SC-262.02 | 10 min | 1.19 | 10 min | 1.19 | 10 min | 1.17 |
| SC-263.01 | 10 min | 0.70 | 10 min | 0.72 | 10 min | 0.67 |
| SC-264.01 | 10 min | 0.39 | 10 min | 0.39 | 10 min | 0.38 |
| SC-265.01 | 10 min | 0.50 | 10 min | 0.52 | 10 min | 0.48 |
| SC-265.02 | 20 min | 1.20 | 15 min | 1.27 | 20 min | 1.18 |
| SC-265.03 | 15 min | 2.08 | 15 min | 2.26 | 20 min | 2.02 |
| SC-265.04 | 10 min | 10.21 | 10 min | 10.65 | 15 min | 9.55 |
| SC-266.01 | 10 min | 0.64 | 10 min | 0.66 | 10 min | 0.62 |
| SC-266.02 | 10 min | 1.22 | 10 min | 1.22 | 10 min | 1.21 |
| SC-266.03 | 10 min | 1.47 | 10 min | 1.49 | 10 min | 1.47 |
| SC-266.04 | 10 min | 5.60 | 10 min | 5.67 | 10 min | 5.54 |
| SC-266.05 | 10 min | 6.48 | 10 min | 6.70 | 10 min | 6.35 |
| SC-267.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.61 |
| SC-268.01 | 10 min | 1.04 | 10 min | 1.08 | 10 min | 0.99 |
| SC-268.02 | 10 min | 2.70 | 10 min | 2.68 | 10 min | 2.61 |
| SC-269.01 | 20 min | 0.43 | 15 min | 0.44 | 20 min | 0.43 |
| SC-27.01 | 10 min | 0.49 | 10 min | 0.50 | 10 min | 0.49 |
| SC-270.01 | 20 min | 0.47 | 10 min | 0.56 | 20 min | 0.46 |
| SC-271.01 | 15 min | 0.29 | 10 min | 0.35 | 20 min | 0.28 |
| SC-272.01 | 20 min | 0.71 | 15 min | 0.72 | 20 min | 0.69 |
| SC-272.02 | 20 min | 1.45 | 10 min | 1.66 | 20 min | 1.40 |
| SC-272.03 | 10 min | 2.58 | 10 min | 2.72 | 10 min | 2.44 |
| SC-273.01 | 10 min | 0.73 | 10 min | 0.75 | 10 min | 0.70 |
| SC-274.01 | 20 min | 0.36 | 20 min | 0.42 | 20 min | 0.32 |
| SC-274.02 | 10 min | 1.44 | 10 min | 1.48 | 10 min | 1.42 |
| SC-274.03 | 10 min | 3.48 | 10 min | 3.58 | 10 min | 3.40 |
| SC-274.04 | 10 min | 4.49 | 10 min | 4.58 | 10 min | 4.40 |
| SC-274.05 | 10 min | 5.81 | 10 min | 6.02 | 10 min | 5.63 |
| SC-275.01 | 10 min | 0.68 | 10 min | 0.70 | 10 min | 0.65 |
| SC-276.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.49 |
| SC-277.01 | 10 min | 0.62 | 10 min | 0.63 | 10 min | 0.62 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-278.01 | 10 min | 0.38 | 10 min | 0.39 | 10 min | 0.37 |
| SC-278.02 | 10 min | 5.04 | 10 min | 5.37 | 15 min | 4.19 |
| SC-279.01 | 10 min | 0.66 | 10 min | 0.70 | 10 min | 0.62 |
| SC-279.02 | 10 min | 4.81 | 10 min | 4.98 | 10 min | 4.52 |
| SC-28.01 | 20 min | 0.41 | 15 min | 0.44 | 20 min | 0.40 |
| SC-28.02 | 20 min | 0.92 | 20 min | 0.93 | 20 min | 0.90 |
| SC-28.03 | 20 min | 1.29 | 15 min | 1.32 | 20 min | 1.27 |
| SC-28.04 | 10 min | 2.82 | 10 min | 2.91 | 10 min | 2.81 |
| SC-280.01 | 10 min | 0.62 | 10 min | 0.62 | 10 min | 0.61 |
| SC-29.01 | 10 min | 0.48 | 10 min | 0.47 | 10 min | 0.47 |
| SC-29.02 | 10 min | 1.29 | 10 min | 1.31 | 10 min | 1.29 |
| SC-3.01 | 10 min | 0.55 | 10 min | 0.60 | 10 min | 0.53 |
| SC-3.02 | 15 min | 1.73 | 10 min | 1.97 | 20 min | 1.70 |
| SC-30.01 | 10 min | 0.85 | 10 min | 0.85 | 10 min | 0.84 |
| SC-30.02 | 10 min | 1.52 | 10 min | 1.51 | 10 min | 1.49 |
| SC-30.03 | 10 min | 2.10 | 10 min | 2.13 | 10 min | 2.06 |
| SC-30.04 | 10 min | 2.66 | 10 min | 2.73 | 10 min | 2.63 |
| SC-31.01 | 10 min | 0.56 | 10 min | 0.56 | 10 min | 0.56 |
| SC-31.02 | 10 min | 1.15 | 10 min | 1.18 | 10 min | 1.14 |
| SC-32.01 | 15 min | 0.48 | 10 min | 0.59 | 15 min | 0.45 |
| SC-32.02 | 15 min | 0.71 | 15 min | 0.78 | 20 min | 0.67 |
| SC-33.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.70 |
| SC-33.02 | 10 min | 1.61 | 10 min | 1.65 | 10 min | 1.59 |
| SC-34.01 | 10 min | 0.55 | 10 min | 0.55 | 10 min | 0.55 |
| SC-34.02 | 10 min | 1.11 | 10 min | 1.09 | 10 min | 1.11 |
| SC-34.03 | 10 min | 1.32 | 10 min | 1.35 | 10 min | 1.30 |
| SC-35.01 | 10 min | 0.52 | 10 min | 0.52 | 10 min | 0.51 |
| SC-35.02 | 10 min | 1.39 | 10 min | 1.38 | 10 min | 1.41 |
| SC-35.03 | 10 min | 2.22 | 10 min | 2.25 | 10 min | 2.26 |
| SC-35.04 | 10 min | 2.37 | 10 min | 2.39 | 10 min | 2.42 |
| SC-36.01 | 10 min | 1.08 | 10 min | 1.10 | 10 min | 1.05 |
| SC-36.02 | 10 min | 1.95 | 10 min | 1.97 | 10 min | 1.91 |
| SC-37.01 | 10 min | 0.42 | 10 min | 0.42 | 10 min | 0.41 |
| SC-37.02 | 10 min | 1.15 | 10 min | 1.17 | 10 min | 1.15 |
| SC-38.01 | 10 min | 0.48 | 10 min | 0.48 | 10 min | 0.48 |
| SC-39.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.28 |
| SC-4.01 | 20 min | 0.61 | 10 min | 0.71 | 20 min | 0.59 |
| SC-40.01 | 10 min | 0.66 | 10 min | 0.69 | 10 min | 0.63 |
| SC-41.01 | 10 min | 0.44 | 10 min | 0.44 | 10 min | 0.43 |
| SC-42.01 | 10 min | 1.48 | 10 min | 1.52 | 10 min | 1.41 |
| SC-43.01 | 10 min | 0.32 | 10 min | 0.33 | 10 min | 0.32 |
| SC-44.01 | 10 min | 1.01 | 10 min | 1.03 | 10 min | 0.99 |
| SC-44.02 | 10 min | 1.58 | 10 min | 1.63 | 10 min | 1.57 |
| SC-44.03 | 10 min | 2.17 | 10 min | 2.22 | 10 min | 2.14 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-44.04 | 10 min | 3.35 | 10 min | 3.40 | 10 min | 3.26 |
| SC-44.05 | 10 min | 5.80 | 10 min | 5.95 | 10 min | 5.70 |
| SC-44.06 | 10 min | 6.13 | 10 min | 6.26 | 10 min | 6.06 |
| SC-44.07 | 10 min | 6.82 | 10 min | 7.01 | 10 min | 6.68 |
| SC-44.08 | 10 min | 8.82 | 10 min | 9.04 | 10 min | 8.63 |
| SC-44.09 | 10 min | 9.12 | 10 min | 9.37 | 15 min | 8.93 |
| SC-44.10 | 12 hours | 2.42 | 12 hours | 2.42 | 12 hours | 2.40 |
| SC-44.11 | 45 min | 12.48 | 45 min | 12.53 | 45 min | 12.43 |
| SC-44.12 | 12 hours | 5.67 | 12 hours | 5.70 | 12 hours | 5.64 |
| SC-44.13 | 12 hours | 5.75 | 12 hours | 5.78 | 12 hours | 5.72 |
| SC-44.14 | 12 hours | 6.49 | 12 hours | 6.52 | 12 hours | 6.47 |
| SC-44.15 | 12 hours | 4.64 | 12 hours | 4.58 | 12 hours | 4.53 |
| SC-44.16 | 12 hours | 4.66 | 12 hours | 4.60 | 12 hours | 4.55 |
| SC-44.17 | 15 min | 8.32 | 15 min | 8.49 | 15 min | 8.18 |
| SC-44.18 | 15 min | 8.86 | 15 min | 9.10 | 15 min | 8.68 |
| SC-44.19 | 15 min | 10.10 | 15 min | 10.37 | 25 min | 9.80 |
| SC-44.20 | 25 min | 9.34 | 25 min | 9.49 | 25 min | 9.20 |
| SC-45.01 | 10 min | 0.74 | 10 min | 0.76 | 10 min | 0.72 |
| SC-46.01 | 10 min | 0.61 | 10 min | 0.61 | 10 min | 0.60 |
| SC-46.02 | 10 min | 1.03 | 10 min | 1.03 | 10 min | 1.01 |
| SC-46.03 | 10 min | 1.55 | 10 min | 1.57 | 10 min | 1.52 |
| SC-46.04 | 10 min | 1.74 | 10 min | 1.78 | 10 min | 1.72 |
| SC-47.01 | 10 min | 0.99 | 10 min | 1.02 | 10 min | 0.95 |
| SC-48.01 | 10 min | 0.75 | 10 min | 0.76 | 10 min | 0.73 |
| SC-48.02 | 10 min | 1.17 | 10 min | 1.19 | 10 min | 1.15 |
| SC-49.01 | 10 min | 0.84 | 10 min | 0.84 | 10 min | 0.84 |
| SC-5.01 | 10 min | 0.53 | 10 min | 0.52 | 10 min | 0.51 |
| SC-50.01 | 10 min | 0.28 | 10 min | 0.28 | 10 min | 0.28 |
| SC-51.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.29 |
| SC-52.01 | 10 min | 0.29 | 10 min | 0.29 | 10 min | 0.30 |
| SC-53.01 | 10 min | 0.72 | 10 min | 0.73 | 10 min | 0.71 |
| SC-53.02 | 10 min | 1.45 | 10 min | 1.47 | 10 min | 1.45 |
| SC-53.03 | 10 min | 1.76 | 10 min | 1.78 | 10 min | 1.74 |
| SC-54.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.58 |
| SC-54.02 | 10 min | 1.10 | 10 min | 1.12 | 10 min | 1.10 |
| SC-55.01 | 10 min | 0.91 | 10 min | 0.91 | 10 min | 0.90 |
| SC-56.01 | 10 min | 0.42 | 10 min | 0.41 | 10 min | 0.42 |
| SC-57.01 | 10 min | 0.31 | 10 min | 0.31 | 10 min | 0.30 |
| SC-58.01 | 10 min | 0.59 | 10 min | 0.61 | 10 min | 0.56 |
| SC-59.01 | 10 min | 0.79 | 10 min | 0.81 | 10 min | 0.76 |
| SC-59.02 | 10 min | 1.49 | 10 min | 1.50 | 10 min | 1.48 |
| SC-59.03 | 10 min | 2.18 | 10 min | 2.21 | 10 min | 2.16 |
| SC-59.04 | 10 min | 2.82 | 10 min | 2.85 | 10 min | 2.77 |
| SC-59.05 | 10 min | 5.96 | 10 min | 6.07 | 10 min | 5.88 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-59.06 | 10 min | 6.84 | 10 min | 7.00 | 10 min | 6.72 |
| SC-59.07 | 10 min | 11.45 | 10 min | 11.93 | 10 min | 11.18 |
| SC-59.08 | 15 min | 11.49 | 15 min | 11.95 | 15 min | 11.09 |
| SC-59.09 | 15 min | 14.04 | 15 min | 14.52 | 15 min | 13.62 |
| SC-59.10 | 25 min | 12.35 | 25 min | 12.64 | 25 min | 12.08 |
| SC-6.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.67 |
| SC-60.01 | 10 min | 0.53 | 10 min | 0.57 | 15 min | 0.48 |
| SC-60.02 | 10 min | 2.10 | 10 min | 2.22 | 10 min | 2.05 |
| SC-61.01 | 10 min | 1.10 | 10 min | 1.14 | 10 min | 1.09 |
| SC-62.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.70 |
| SC-63.01 | 10 min | 0.40 | 10 min | 0.42 | 10 min | 0.38 |
| SC-64.01 | 10 min | 0.53 | 10 min | 0.55 | 10 min | 0.50 |
| SC-64.02 | 10 min | 1.76 | 10 min | 1.77 | 10 min | 1.75 |
| SC-64.03 | 10 min | 3.31 | 10 min | 3.33 | 10 min | 3.28 |
| SC-64.04 | 10 min | 4.60 | 10 min | 4.69 | 10 min | 4.53 |
| SC-65.01 | 10 min | 0.41 | 10 min | 0.42 | 10 min | 0.39 |
| SC-66.01 | 10 min | 0.32 | 10 min | 0.32 | 10 min | 0.32 |
| SC-66.02 | 15 min | 0.72 | 10 min | 0.86 | 20 min | 0.69 |
| SC-67.01 | 10 min | 0.59 | 10 min | 0.59 | 10 min | 0.59 |
| SC-68.01 | 10 min | 0.81 | 10 min | 0.81 | 10 min | 0.80 |
| SC-68.02 | 10 min | 1.52 | 10 min | 1.54 | 10 min | 1.51 |
| SC-68.03 | 10 min | 2.77 | 10 min | 2.78 | 10 min | 2.73 |
| SC-69.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.70 |
| SC-7.01 | 10 min | 0.90 | 10 min | 0.93 | 10 min | 0.88 |
| SC-70.01 | 10 min | 0.64 | 10 min | 0.64 | 10 min | 0.64 |
| SC-70.02 | 10 min | 1.02 | 10 min | 1.02 | 10 min | 1.01 |
| SC-71.01 | 10 min | 0.81 | 10 min | 0.81 | 10 min | 0.79 |
| SC-71.02 | 10 min | 1.53 | 10 min | 1.54 | 10 min | 1.51 |
| SC-72.01 | 10 min | 0.87 | 10 min | 0.88 | 10 min | 0.86 |
| SC-73.01 | 10 min | 0.70 | 10 min | 0.71 | 10 min | 0.68 |
| SC-74.01 | 10 min | 0.81 | 10 min | 0.82 | 10 min | 0.79 |
| SC-75.01 | 10 min | 0.47 | 10 min | 0.49 | 10 min | 0.46 |
| SC-75.02 | 10 min | 1.91 | 10 min | 2.01 | 10 min | 1.81 |
| SC-75.03 | 10 min | 2.72 | 10 min | 2.86 | 10 min | 2.68 |
| SC-75.04 | 10 min | 4.69 | 10 min | 4.80 | 10 min | 4.70 |
| SC-76.01 | 10 min | 0.65 | 10 min | 0.70 | 15 min | 0.55 |
| SC-77.01 | 10 min | 0.96 | 10 min | 0.97 | 10 min | 0.94 |
| SC-77.02 | 10 min | 1.45 | 10 min | 1.45 | 10 min | 1.43 |
| SC-77.03 | 10 min | 2.01 | 10 min | 2.05 | 10 min | 1.99 |
| SC-78.01 | 10 min | 0.90 | 10 min | 0.91 | 10 min | 0.89 |
| SC-79.01 | 10 min | 0.96 | 10 min | 0.99 | 10 min | 0.97 |
| SC-79.02 | 10 min | 1.78 | 10 min | 1.80 | 10 min | 1.79 |
| SC-79.03 | 10 min | 3.90 | 10 min | 3.98 | 10 min | 3.87 |
| SC-8.01 | 10 min | 0.76 | 10 min | 0.78 | 10 min | 0.74 |

## Catchment Storage Sensitivity Results for 1% AEP Flood

| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
|---|---|---|---|---|---|---|
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-8.02 | 10 min | 1.82 | 10 min | 1.84 | 10 min | 1.83 |
| SC-8.03 | 10 min | 4.76 | 10 min | 4.86 | 10 min | 4.70 |
| SC-8.04 | 10 min | 8.34 | 10 min | 8.59 | 10 min | 8.16 |
| SC-8.05 | 10 min | 9.11 | 10 min | 9.25 | 10 min | 8.94 |
| SC-8.06 | 10 min | 9.46 | 10 min | 9.59 | 10 min | 9.34 |
| SC-80.01 | 10 min | 0.94 | 10 min | 0.94 | 10 min | 0.93 |
| SC-80.02 | 10 min | 1.86 | 10 min | 1.87 | 10 min | 1.83 |
| SC-81.01 | 10 min | 0.70 | 10 min | 0.70 | 10 min | 0.69 |
| SC-81.02 | 10 min | 2.07 | 10 min | 2.06 | 10 min | 2.02 |
| SC-82.01 | 10 min | 0.84 | 10 min | 0.84 | 10 min | 0.82 |
| SC-83.01 | 10 min | 0.53 | 10 min | 0.53 | 10 min | 0.52 |
| SC-84.01 | 10 min | 0.79 | 10 min | 0.79 | 10 min | 0.77 |
| SC-84.02 | 10 min | 1.92 | 10 min | 1.96 | 10 min | 1.90 |
| SC-84.03 | 10 min | 2.54 | 10 min | 2.58 | 10 min | 2.50 |
| SC-84.04 | 10 min | 3.01 | 10 min | 3.07 | 10 min | 2.97 |
| SC-84.05 | 10 min | 3.56 | 10 min | 3.64 | 10 min | 3.52 |
| SC-84.06 | 10 min | 3.93 | 10 min | 3.99 | 10 min | 3.88 |
| SC-85.01 | 10 min | 0.49 | 10 min | 0.49 | 10 min | 0.49 |
| SC-86.01 | 10 min | 0.75 | 10 min | 0.76 | 10 min | 0.72 |
| SC-86.02 | 10 min | 1.44 | 10 min | 1.46 | 10 min | 1.42 |
| SC-87.01 | 10 min | 1.10 | 10 min | 1.11 | 10 min | 1.07 |
| SC-87.02 | 10 min | 1.84 | 10 min | 1.86 | 10 min | 1.82 |
| SC-88.01 | 10 min | 0.49 | 10 min | 0.50 | 10 min | 0.48 |
| SC-88.02 | 10 min | 0.80 | 10 min | 0.81 | 10 min | 0.78 |
| SC-89.01 | 10 min | 0.54 | 10 min | 0.56 | 10 min | 0.51 |
| SC-89.02 | 10 min | 0.59 | 10 min | 0.61 | 10 min | 0.56 |
| SC-9.01 | 10 min | 0.71 | 10 min | 0.71 | 10 min | 0.69 |
| SC-90.01 | 10 min | 0.21 | 10 min | 0.22 | 10 min | 0.21 |
| SC-91.01 | 10 min | 0.64 | 10 min | 0.65 | 10 min | 0.63 |
| SC-91.02 | 10 min | 1.31 | 10 min | 1.34 | 10 min | 1.29 |
| SC-92.01 | 10 min | 0.63 | 10 min | 0.64 | 10 min | 0.62 |
| SC-92.02 | 10 min | 1.75 | 10 min | 1.77 | 10 min | 1.75 |
| SC-93.01 | 10 min | 0.69 | 10 min | 0.69 | 10 min | 0.67 |
| SC-94.01 | 10 min | 0.76 | 10 min | 0.76 | 10 min | 0.75 |
| SC-94.02 | 10 min | 1.75 | 10 min | 1.79 | 10 min | 1.73 |
| SC-95.01 | 10 min | 0.45 | 10 min | 0.45 | 10 min | 0.45 |
| SC-95.02 | 10 min | 1.09 | 10 min | 1.09 | 10 min | 1.08 |
| SC-96.01 | 10 min | 0.50 | 10 min | 0.50 | 10 min | 0.50 |
| SC-97.01 | 10 min | 0.34 | 10 min | 0.35 | 10 min | 0.33 |
| SC-97.02 | 10 min | 1.94 | 10 min | 1.99 | 10 min | 1.90 |
| SC-98.01 | 10 min | 0.59 | 10 min | 0.60 | 10 min | 0.57 |
| SC-99.01 | 10 min | 0.57 | 10 min | 0.57 | 10 min | 0.57 |
| SC-99.02 | 10 min | 1.54 | 10 min | 1.55 | 10 min | 1.53 |
| SC-99.03 | 10 min | 2.64 | 10 min | 2.65 | 10 min | 2.62 |

| Catchment Storage Sensitivity Results for 1% AEP Flood | | | | | | |
|---|---|---|---|---|---|---|
| Subcatch ID | Base ARR2019 Results | | Catchment Storage Sensitivity Results | | | |
| | | | Bx Reduced by 20% | | Bx Increased by 20% | |
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-99.04 | 10 min | 7.03 | 10 min | 7.25 | 10 min | 6.90 |
| Dummy1 | 15 min | 35.32 | 10 min | 36.41 | 15 min | 34.03 |
| Dummy2 | 25 min | 55.39 | 25 min | 56.35 | 25 min | 54.35 |
| Dummy3 | 30 min | 106.76 | 30 min | 108.57 | 30 min | 105.71 |
| DummyOut | 1.50 hour | 113.93 | 1.50 hour | 114.69 | 1.50 hour | 113.00 |

## PMP Spatial Distribution

| Subcatch ID | Base PMP Results | | Modified PMP Spatial Distribution | |
|---|---|---|---|---|
| | Critical Duration (mins) | Adopted Discharge ($m^3/s$) | Critical Duration (mins) | Adopted Discharge ($m^3/s$) |
| SC-1.01 | 15 min | 3.43 | 15 min | 3.37 |
| SC-1.02 | 15 min | 7.68 | 15 min | 7.54 |
| SC-1.03 | 15 min | 9.07 | 15 min | 8.84 |
| SC-1.04 | 15 min | 25.67 | 15 min | 24.11 |
| SC-1.05 | 15 min | 28.11 | 15 min | 26.33 |
| SC-1.06 | 15 min | 33.26 | 15 min | 30.92 |
| SC-1.07 | 15 min | 34.12 | 15 min | 31.71 |
| SC-1.08 | 30 min | 52.56 | 30 min | 47.33 |
| SC-1.09 | 45 min | 58.08 | 30 min | 51.73 |
| SC-1.10 | 45 min | 59.18 | 45 min | 52.47 |
| SC-1.11 | 45 min | 79.43 | 30 min | 70.54 |
| SC-1.12 | 45 min | 87.39 | 30 min | 77.86 |
| SC-1.13 | 45 min | 94.2 | 30 min | 84.24 |
| SC-1.14 | 15 min | 109.25 | 15 min | 96.46 |
| SC-1.15 | 15 min | 119.44 | 15 min | 105.57 |
| SC-1.16 | 15 min | 133.98 | 15 min | 119.45 |
| SC-1.17 | 15 min | 135.93 | 15 min | 121.25 |
| SC-1.18 | 1.50 hour | 111.8 | 45 min | 98.89 |
| SC-1.19 | 1.50 hour | 197 | 1 hour | 147.20 |
| SC-1.20 | 1.50 hour | 199.3 | 1 hour | 147.00 |
| SC-1.21 | 1.50 hour | 201.12 | 1 hour | 147.08 |
| SC-1.22 | 1.50 hour | 203.88 | 1 hour | 147.41 |
| SC-1.23 | 2 hours | 212.56 | 1 hour | 152.62 |
| SC-1.24 | 2 hours | 231.4 | 1 hour | 168.90 |
| SC-1.25 | 2 hours | 232.97 | 1 hour | 169.85 |
| SC-1.26 | 2 hours | 238.04 | 1 hour | 173.75 |
| SC-1.27 | 2 hours | 239.39 | 1 hour | 174.80 |
| SC-1.28 | 2.50 hours | 263.65 | 15 min | 219.96 |
| SC-1.29 | 2.50 hours | 271.94 | 30 min | 230.82 |
| SC-1.30 | 2.50 hours | 274.32 | 30 min | 236.49 |
| SC-1.31 | 2.50 hours | 275.98 | 30 min | 239.93 |
| SC-1.32 | 2.50 hours | 278.74 | 30 min | 245.14 |
| SC-1.33 | 2.50 hours | 285.41 | 30 min | 255.13 |
| SC-1.34 | 2.50 hours | 287.13 | 30 min | 256.40 |
| SC-1.35 | 2.50 hours | 288.85 | 30 min | 257.49 |
| SC-1.36 | 2.50 hours | 298.86 | 45 min | 276.45 |
| SC-10.01 | 15 min | 3.84 | 15 min | 3.37 |
| SC-100.01 | 15 min | 3.83 | 15 min | 4.02 |
| SC-100.02 | 15 min | 6.87 | 15 min | 7.25 |
| SC-101.01 | 15 min | 4.35 | 15 min | 4.61 |
| SC-101.02 | 15 min | 7.91 | 15 min | 8.36 |
| SC-102.01 | 15 min | 3.23 | 15 min | 3.39 |

| | | | | |
|---|---|---|---|---|
| SC-102.02 | 15 min | 13.49 | 15 min | 14.08 |
| SC-103.01 | 15 min | 2.19 | 15 min | 2.28 |
| SC-103.02 | 15 min | 8.2 | 15 min | 8.57 |
| SC-104.01 | 15 min | 2.01 | 15 min | 2.09 |
| SC-105.01 | 15 min | 2.45 | 15 min | 2.14 |
| SC-105.02 | 15 min | 6.12 | 15 min | 5.52 |
| SC-105.03 | 15 min | 14.25 | 15 min | 12.87 |
| SC-105.04 | 15 min | 19.38 | 15 min | 17.46 |
| SC-105.05 | 15 min | 24.12 | 15 min | 21.74 |
| SC-105.06 | 15 min | 27.27 | 15 min | 24.51 |
| SC-105.07 | 15 min | 41.52 | 15 min | 37.57 |
| SC-105.08 | 15 min | 48.14 | 15 min | 43.98 |
| SC-105.09 | 15 min | 62.17 | 15 min | 58.78 |
| SC-106.01 | 15 min | 1.75 | 15 min | 1.60 |
| SC-107.01 | 15 min | 3.13 | 15 min | 2.87 |
| SC-108.01 | 15 min | 2.15 | 15 min | 1.95 |
| SC-109.01 | 15 min | 2.87 | 15 min | 2.67 |
| SC-11.01 | 15 min | 2.41 | 15 min | 2.10 |
| SC-110.01 | 15 min | 2.63 | 15 min | 2.44 |
| SC-110.02 | 15 min | 6.46 | 15 min | 5.99 |
| SC-110.03 | 15 min | 7.15 | 15 min | 6.60 |
| SC-111.01 | 15 min | 2.56 | 15 min | 2.29 |
| SC-112.01 | 15 min | 4.47 | 15 min | 4.11 |
| SC-113.01 | 15 min | 1.65 | 15 min | 1.54 |
| SC-113.02 | 15 min | 5.72 | 15 min | 5.35 |
| SC-114.01 | 15 min | 3.03 | 15 min | 2.82 |
| SC-114.02 | 15 min | 4.62 | 15 min | 4.47 |
| SC-114.03 | 15 min | 9.58 | 15 min | 9.21 |
| SC-115.01 | 15 min | 2.55 | 15 min | 2.36 |
| SC-115.02 | 15 min | 4.21 | 15 min | 4.01 |
| SC-116.01 | 15 min | 2.53 | 15 min | 2.34 |
| SC-116.02 | 15 min | 4.26 | 15 min | 3.97 |
| SC-117.01 | 15 min | 1.5 | 15 min | 1.40 |
| SC-118.01 | 15 min | 2.77 | 15 min | 2.92 |
| SC-119.01 | 15 min | 4.45 | 15 min | 4.62 |
| SC-119.02 | 15 min | 11.44 | 15 min | 11.62 |
| SC-12.01 | 15 min | 2.43 | 15 min | 2.42 |
| SC-12.02 | 15 min | 4.14 | 15 min | 4.11 |
| SC-12.03 | 15 min | 8.3 | 15 min | 7.83 |
| SC-12.04 | 15 min | 10.91 | 15 min | 9.95 |
| SC-120.01 | 15 min | 2.05 | 15 min | 2.07 |
| SC-121.01 | 15 min | 2.51 | 15 min | 2.61 |
| SC-122.01 | 15 min | 3.81 | 15 min | 4.02 |
| SC-122.02 | 15 min | 6.45 | 15 min | 6.72 |
| SC-122.03 | 15 min | 8.77 | 15 min | 9.43 |
| SC-123.01 | 15 min | 2.01 | 15 min | 2.11 |
| SC-123.02 | 15 min | 6.06 | 15 min | 6.24 |
| SC-123.03 | 15 min | 44.93 | 15 min | 46.65 |
| SC-123.04 | 15 min | 45.78 | 15 min | 47.56 |
| SC-123.05 | 15 min | 57.79 | 15 min | 60.29 |

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|---|---|---|---|---|
| SC-123.06 | 15 min | 59.87 | 15 min | 62.61 |
| SC-123.07 | 15 min | 65.01 | 15 min | 68.25 |
| SC-124.01 | 15 min | 3.25 | 15 min | 3.39 |
| SC-124.02 | 15 min | 20.26 | 15 min | 20.85 |
| SC-125.01 | 15 min | 4.51 | 15 min | 4.77 |
| SC-126.01 | 15 min | 1.85 | 15 min | 1.95 |
| SC-126.02 | 15 min | 5.83 | 15 min | 6.04 |
| SC-126.03 | 15 min | 10.16 | 15 min | 10.27 |
| SC-127.01 | 15 min | 4.24 | 15 min | 4.46 |
| SC-127.02 | 15 min | 11.89 | 15 min | 12.56 |
| SC-128.01 | 15 min | 4.27 | 15 min | 4.46 |
| SC-129.01 | 15 min | 2.37 | 15 min | 2.52 |
| SC-13.01 | 15 min | 2.5 | 15 min | 2.20 |
| SC-130.01 | 15 min | 3.2 | 15 min | 3.36 |
| SC-131.01 | 15 min | 1.25 | 15 min | 1.32 |
| SC-132.01 | 15 min | 1.83 | 15 min | 1.93 |
| SC-133.01 | 15 min | 1.29 | 15 min | 1.35 |
| SC-134.01 | 15 min | 1.12 | 15 min | 1.18 |
| SC-134.02 | 15 min | 4.25 | 15 min | 4.50 |
| SC-134.03 | 15 min | 8.47 | 15 min | 9.01 |
| SC-134.04 | 15 min | 11.98 | 15 min | 12.53 |
| SC-135.01 | 15 min | 1.02 | 15 min | 0.94 |
| SC-135.02 | 15 min | 5.85 | 15 min | 5.38 |
| SC-135.03 | 15 min | 7.82 | 15 min | 7.12 |
| SC-135.04 | 15 min | 17.28 | 15 min | 16.08 |
| SC-135.05 | 15 min | 19.64 | 15 min | 18.71 |
| SC-135.06 | 15 min | 31.47 | 15 min | 31.51 |
| SC-136.01 | 15 min | 2.84 | 15 min | 2.75 |
| SC-137.01 | 15 min | 3.08 | 15 min | 2.82 |
| SC-138.01 | 15 min | 3.36 | 15 min | 3.49 |
| SC-139.01 | 15 min | 3.22 | 15 min | 3.38 |
| SC-139.02 | 15 min | 4.02 | 15 min | 4.18 |
| SC-14.01 | 15 min | 4.31 | 15 min | 3.77 |
| SC-14.02 | 15 min | 7.02 | 15 min | 6.11 |
| SC-14.03 | 15 min | 9.27 | 15 min | 8.01 |
| SC-140.01 | 15 min | 2.29 | 15 min | 2.33 |
| SC-141.01 | 15 min | 4.25 | 15 min | 4.44 |
| SC-142.01 | 15 min | 7.37 | 15 min | 7.67 |
| SC-143.01 | 15 min | 2.54 | 15 min | 2.66 |
| SC-143.02 | 15 min | 20.25 | 15 min | 21.56 |
| SC-144.01 | 15 min | 2.68 | 15 min | 2.80 |
| SC-144.02 | 15 min | 4.05 | 15 min | 4.24 |
| SC-144.03 | 15 min | 5.75 | 15 min | 6.00 |
| SC-144.04 | 15 min | 10.14 | 15 min | 10.81 |
| SC-144.05 | 15 min | 17.83 | 15 min | 19.73 |
| SC-145.01 | 15 min | 3.36 | 15 min | 3.50 |
| SC-145.02 | 15 min | 6.28 | 15 min | 6.64 |
| SC-146.01 | 15 min | 8.76 | 15 min | 8.98 |
| SC-147.01 | 15 min | 3.87 | 15 min | 3.97 |
| SC-147.02 | 15 min | 5.4 | 15 min | 5.57 |

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|---|---|---|---|---|
| SC-147.03 | 15 min | 13.4 | 15 min | 13.74 |
| SC-148.01 | 15 min | 2.8 | 15 min | 2.95 |
| SC-148.02 | 15 min | 6.88 | 15 min | 7.09 |
| SC-149.01 | 15 min | 2.16 | 15 min | 2.24 |
| SC-149.02 | 15 min | 7.55 | 15 min | 7.79 |
| SC-15.01 | 15 min | 4.47 | 15 min | 3.87 |
| SC-15.02 | 15 min | 5.96 | 15 min | 5.18 |
| SC-15.03 | 15 min | 9.66 | 15 min | 8.40 |
| SC-150.01 | 15 min | 2.34 | 15 min | 2.32 |
| SC-150.02 | 15 min | 4.77 | 15 min | 4.72 |
| SC-150.03 | 15 min | 12.29 | 15 min | 12.10 |
| SC-150.04 | 15 min | 16.2 | 15 min | 15.98 |
| SC-150.05 | 15 min | 22.96 | 15 min | 22.58 |
| SC-150.06 | 15 min | 43.35 | 15 min | 42.71 |
| SC-150.07 | 15 min | 70.17 | 15 min | 67.87 |
| SC-150.08 | 30 min | 79.47 | 30 min | 72.83 |
| SC-150.09 | 30 min | 85.16 | 30 min | 77.94 |
| SC-150.10 | 30 min | 102.59 | 30 min | 94.66 |
| SC-150.11 | 30 min | 133.14 | 30 min | 122.93 |
| SC-150.12 | 30 min | 163.37 | 30 min | 151.60 |
| SC-150.13 | 30 min | 178.6 | 30 min | 164.11 |
| SC-150.14 | 30 min | 238.08 | 30 min | 225.71 |
| SC-150.15 | 30 min | 240.74 | 30 min | 228.15 |
| SC-150.16 | 45 min | 250.39 | 30 min | 235.06 |
| SC-150.17 | 45 min | 255.94 | 45 min | 241.10 |
| SC-151.01 | 15 min | 3.1 | 15 min | 3.06 |
| SC-151.02 | 15 min | 4.98 | 15 min | 4.91 |
| SC-152.01 | 15 min | 2.83 | 15 min | 2.77 |
| SC-153.01 | 15 min | 2.37 | 15 min | 2.30 |
| SC-153.02 | 15 min | 5.63 | 15 min | 5.57 |
| SC-154.01 | 15 min | 4.31 | 15 min | 4.23 |
| SC-154.02 | 15 min | 15.19 | 15 min | 15.05 |
| SC-155.01 | 15 min | 1.75 | 15 min | 1.75 |
| SC-155.02 | 15 min | 4.84 | 15 min | 4.77 |
| SC-156.01 | 15 min | 1.75 | 15 min | 1.71 |
| SC-157.01 | 15 min | 2.11 | 15 min | 2.06 |
| SC-158.01 | 15 min | 2.99 | 15 min | 2.63 |
| SC-158.02 | 15 min | 4.04 | 15 min | 3.50 |
| SC-158.03 | 15 min | 8.91 | 15 min | 7.82 |
| SC-158.04 | 15 min | 15.72 | 15 min | 14.48 |
| SC-159.01 | 15 min | 2.39 | 15 min | 2.09 |
| SC-16.01 | 15 min | 2.87 | 15 min | 2.52 |
| SC-160.01 | 15 min | 2.06 | 15 min | 2.04 |
| SC-160.02 | 15 min | 4.89 | 15 min | 4.82 |
| SC-161.01 | 15 min | 2.47 | 15 min | 2.45 |
| SC-161.02 | 15 min | 4.92 | 15 min | 4.83 |
| SC-162.01 | 15 min | 3.35 | 15 min | 2.96 |
| SC-163.01 | 15 min | 2.23 | 15 min | 1.98 |
| SC-163.02 | 15 min | 4.15 | 15 min | 3.64 |
| SC-163.03 | 15 min | 6.7 | 15 min | 5.87 |

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|---|---|---|---|---|
| SC-163.04 | 15 min | 9.13 | 15 min | 7.92 |
| SC-163.05 | 15 min | 15.62 | 15 min | 13.50 |
| SC-164.01 | 15 min | 3 | 15 min | 2.61 |
| SC-165.01 | 15 min | 2.55 | 15 min | 2.22 |
| SC-165.02 | 15 min | 6.63 | 15 min | 5.71 |
| SC-165.03 | 15 min | 8.73 | 15 min | 7.52 |
| SC-165.04 | 15 min | 19.79 | 15 min | 17.15 |
| SC-165.05 | 15 min | 33.26 | 15 min | 28.43 |
| SC-166.01 | 15 min | 2.34 | 15 min | 2.03 |
| SC-167.01 | 15 min | 3.35 | 15 min | 2.94 |
| SC-167.02 | 15 min | 8.89 | 15 min | 7.74 |
| SC-168.01 | 15 min | 2.74 | 15 min | 2.38 |
| SC-169.01 | 15 min | 2.59 | 15 min | 2.25 |
| SC-169.02 | 15 min | 4.85 | 15 min | 4.23 |
| SC-169.03 | 15 min | 10.79 | 15 min | 9.31 |
| SC-17.01 | 15 min | 2.5 | 15 min | 2.19 |
| SC-17.02 | 15 min | 4.56 | 15 min | 3.97 |
| SC-17.03 | 15 min | 7.71 | 15 min | 6.81 |
| SC-17.04 | 15 min | 19.01 | 15 min | 16.58 |
| SC-17.05 | 15 min | 26.75 | 15 min | 23.30 |
| SC-17.06 | 15 min | 30.99 | 15 min | 26.88 |
| SC-17.07 | 15 min | 33.69 | 15 min | 29.22 |
| SC-170.01 | 15 min | 2.3 | 15 min | 1.99 |
| SC-171.01 | 15 min | 1.36 | 15 min | 1.35 |
| SC-172.01 | 15 min | 3.13 | 15 min | 2.73 |
| SC-172.02 | 15 min | 5.61 | 15 min | 4.81 |
| SC-173.01 | 30 min | 4.34 | 30 min | 4.27 |
| SC-173.02 | 15 min | 7.91 | 15 min | 7.63 |
| SC-173.03 | 30 min | 8.23 | 30 min | 7.97 |
| SC-173.04 | 15 min | 12.22 | 15 min | 11.61 |
| SC-173.05 | 15 min | 14.36 | 15 min | 13.62 |
| SC-174.01 | 15 min | 2 | 15 min | 1.74 |
| SC-175.01 | 15 min | 3.58 | 15 min | 3.14 |
| SC-175.02 | 15 min | 7.57 | 15 min | 6.67 |
| SC-175.03 | 15 min | 12.27 | 15 min | 10.63 |
| SC-175.04 | 15 min | 15.56 | 15 min | 13.53 |
| SC-175.05 | 15 min | 18.17 | 15 min | 15.71 |
| SC-176.01 | 15 min | 1.85 | 15 min | 1.58 |
| SC-177.01 | 15 min | 2.02 | 15 min | 1.75 |
| SC-177.02 | 15 min | 5.74 | 15 min | 4.92 |
| SC-177.03 | 15 min | 15.77 | 15 min | 13.56 |
| SC-177.04 | 15 min | 20.93 | 15 min | 18.51 |
| SC-178.01 | 15 min | 4.43 | 15 min | 3.84 |
| SC-178.02 | 15 min | 7.02 | 15 min | 6.07 |
| SC-179.01 | 15 min | 3.19 | 15 min | 3.12 |
| SC-18.01 | 15 min | 2.86 | 15 min | 2.49 |
| SC-18.02 | 15 min | 4.79 | 15 min | 4.17 |
| SC-180.01 | 15 min | 3.08 | 15 min | 3.03 |
| SC-180.02 | 15 min | 5.54 | 15 min | 5.42 |
| SC-180.03 | 15 min | 7.85 | 15 min | 7.71 |

| | | | | |
|---|---|---|---|---|
| SC-180.04 | 15 min | 11.12 | 15 min | 10.99 |
| SC-181.01 | 15 min | 1.68 | 15 min | 1.66 |
| SC-181.02 | 15 min | 4.79 | 15 min | 4.71 |
| SC-181.03 | 15 min | 7.72 | 15 min | 7.55 |
| SC-181.04 | 15 min | 14.99 | 15 min | 14.72 |
| SC-181.05 | 15 min | 16.77 | 15 min | 16.52 |
| SC-181.06 | 15 min | 18.52 | 15 min | 18.23 |
| SC-181.07 | 15 min | 41.09 | 15 min | 40.64 |
| SC-181.08 | 15 min | 42.63 | 15 min | 42.08 |
| SC-182.01 | 15 min | 2.19 | 15 min | 2.16 |
| SC-182.02 | 15 min | 3.73 | 15 min | 3.66 |
| SC-182.03 | 15 min | 6.63 | 15 min | 6.48 |
| SC-183.01 | 15 min | 2.38 | 15 min | 2.34 |
| SC-183.02 | 15 min | 5.08 | 15 min | 4.93 |
| SC-183.03 | 15 min | 12.64 | 15 min | 12.77 |
| SC-183.04 | 15 min | 14.94 | 15 min | 14.86 |
| SC-184.01 | 15 min | 5.14 | 15 min | 5.07 |
| SC-185.01 | 15 min | 2.95 | 15 min | 2.92 |
| SC-185.02 | 15 min | 6.86 | 15 min | 6.81 |
| SC-186.01 | 15 min | 1.1 | 15 min | 1.07 |
| SC-187.01 | 15 min | 3.38 | 15 min | 3.06 |
| SC-187.02 | 15 min | 6.91 | 15 min | 6.14 |
| SC-187.03 | 15 min | 8.2 | 15 min | 7.33 |
| SC-187.04 | 15 min | 10.53 | 15 min | 9.59 |
| SC-187.05 | 15 min | 12.18 | 15 min | 11.32 |
| SC-188.01 | 15 min | 3.15 | 15 min | 3.13 |
| SC-188.02 | 15 min | 4.89 | 15 min | 4.84 |
| SC-189.01 | 15 min | 3.55 | 15 min | 3.52 |
| SC-189.02 | 15 min | 6.5 | 15 min | 6.43 |
| SC-19.01 | 15 min | 1.9 | 15 min | 1.67 |
| SC-190.01 | 15 min | 1.59 | 15 min | 1.57 |
| SC-191.01 | 15 min | 3.23 | 15 min | 2.96 |
| SC-191.02 | 15 min | 4.89 | 15 min | 4.47 |
| SC-191.03 | 15 min | 8.98 | 15 min | 8.46 |
| SC-191.04 | 15 min | 12.98 | 15 min | 12.28 |
| SC-191.05 | 15 min | 18.07 | 15 min | 17.24 |
| SC-191.06 | 15 min | 31.71 | 15 min | 31.07 |
| SC-191.07 | 15 min | 39.11 | 15 min | 38.22 |
| SC-191.08 | 15 min | 44.06 | 15 min | 42.38 |
| SC-192.01 | 15 min | 9.42 | 15 min | 9.77 |
| SC-193.01 | 15 min | 4.3 | 15 min | 4.49 |
| SC-194.01 | 15 min | 4.96 | 15 min | 4.88 |
| SC-194.02 | 15 min | 22.91 | 15 min | 22.74 |
| SC-194.03 | 15 min | 24.79 | 15 min | 24.12 |
| SC-195.01 | 15 min | 8.14 | 15 min | 7.95 |
| SC-196.01 | 15 min | 14.64 | 15 min | 14.87 |
| SC-197.01 | 15 min | 10.67 | 15 min | 10.72 |
| SC-198.01 | 15 min | 11.86 | 15 min | 11.61 |
| SC-2.01 | 15 min | 2.28 | 15 min | 2.26 |
| SC-20.01 | 15 min | 2.24 | 15 min | 1.94 |

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|---|---|---|---|---|
| SC-200.01 | 15 min | 2.95 | 15 min | 3.06 |
| SC-200.02 | 15 min | 5.11 | 15 min | 5.37 |
| SC-200.03 | 15 min | 9.84 | 15 min | 10.23 |
| SC-200.04 | 15 min | 15.13 | 15 min | 15.73 |
| SC-200.05 | 15 min | 24.16 | 15 min | 25.53 |
| SC-200.06 | 15 min | 41.03 | 15 min | 42.94 |
| SC-200.07 | 15 min | 49.25 | 15 min | 51.25 |
| SC-200.08 | 15 min | 57.3 | 15 min | 59.59 |
| SC-200.09 | 15 min | 83.94 | 15 min | 87.99 |
| SC-201.01 | 15 min | 3.51 | 15 min | 3.66 |
| SC-202.01 | 15 min | 3.52 | 15 min | 3.69 |
| SC-203.01 | 15 min | 3.72 | 15 min | 3.94 |
| SC-204.01 | 15 min | 5.52 | 15 min | 5.84 |
| SC-205.01 | 15 min | 2.6 | 15 min | 2.71 |
| SC-206.01 | 15 min | 19.09 | 15 min | 20.05 |
| SC-207.01 | 15 min | 3.55 | 15 min | 3.68 |
| SC-207.02 | 15 min | 7.13 | 15 min | 7.46 |
| SC-207.03 | 15 min | 8.15 | 15 min | 8.60 |
| SC-207.04 | 15 min | 23.38 | 15 min | 24.77 |
| SC-207.05 | 15 min | 31.7 | 15 min | 33.95 |
| SC-207.06 | 15 min | 34.34 | 15 min | 36.80 |
| SC-207.07 | 15 min | 58.68 | 15 min | 62.21 |
| SC-207.08 | 15 min | 88.51 | 15 min | 95.89 |
| SC-207.09 | 15 min | 102.23 | 15 min | 111.57 |
| SC-207.10 | 15 min | 105.91 | 15 min | 115.96 |
| SC-207.11 | 15 min | 114 | 15 min | 125.73 |
| SC-207.12 | 15 min | 162.68 | 15 min | 181.13 |
| SC-207.13 | 15 min | 172.84 | 15 min | 193.77 |
| SC-207.14 | 15 min | 177.74 | 15 min | 200.89 |
| SC-208.01 | 15 min | 3.56 | 15 min | 3.74 |
| SC-208.02 | 15 min | 5.3 | 15 min | 5.50 |
| SC-208.03 | 15 min | 7.17 | 15 min | 7.48 |
| SC-208.04 | 15 min | 11.77 | 15 min | 12.46 |
| SC-208.05 | 15 min | 14.03 | 15 min | 14.82 |
| SC-209.01 | 15 min | 2.44 | 15 min | 2.51 |
| SC-21.01 | 15 min | 3.12 | 15 min | 2.74 |
| SC-210.01 | 15 min | 5.19 | 15 min | 5.40 |
| SC-210.02 | 15 min | 7.45 | 15 min | 7.81 |
| SC-211.01 | 15 min | 2.68 | 15 min | 2.81 |
| SC-211.02 | 15 min | 6.19 | 15 min | 6.44 |
| SC-211.03 | 15 min | 9.54 | 15 min | 9.67 |
| SC-211.04 | 15 min | 11.02 | 30 min | 11.22 |
| SC-212.01 | 45 min | 1.27 | 45 min | 1.33 |
| SC-212.02 | 30 min | 2.03 | 45 min | 2.09 |
| SC-213.01 | 15 min | 2.1 | 15 min | 2.19 |
| SC-213.02 | 15 min | 3.62 | 15 min | 3.86 |
| SC-214.01 | 15 min | 2.64 | 15 min | 2.78 |
| SC-214.02 | 15 min | 5.65 | 15 min | 5.94 |
| SC-215.01 | 15 min | 2.16 | 15 min | 2.24 |
| SC-215.02 | 15 min | 3.99 | 15 min | 4.23 |

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|---|---|---|---|---|
| SC-216.01 | 15 min | 1.88 | 15 min | 2.09 |
| SC-216.02 | 15 min | 5.96 | 15 min | 6.40 |
| SC-216.03 | 15 min | 9.7 | 15 min | 10.34 |
| SC-216.04 | 15 min | 14.69 | 15 min | 15.43 |
| SC-217.01 | 15 min | 1.35 | 15 min | 1.49 |
| SC-218.01 | 15 min | 1.03 | 15 min | 1.12 |
| SC-219.01 | 15 min | 1.37 | 15 min | 1.44 |
| SC-22.01 | 15 min | 1.77 | 15 min | 1.55 |
| SC-220.01 | 15 min | 2.16 | 15 min | 2.40 |
| SC-221.01 | 15 min | 2.01 | 15 min | 2.24 |
| SC-221.02 | 15 min | 4.59 | 15 min | 5.10 |
| SC-221.03 | 15 min | 5.71 | 15 min | 6.29 |
| SC-221.04 | 15 min | 8.25 | 15 min | 9.11 |
| SC-221.05 | 15 min | 10.81 | 15 min | 12.04 |
| SC-221.06 | 15 min | 11.65 | 15 min | 12.97 |
| SC-222.01 | 15 min | 2.18 | 15 min | 2.42 |
| SC-222.02 | 15 min | 3.62 | 15 min | 4.01 |
| SC-222.03 | 15 min | 8.99 | 15 min | 9.91 |
| SC-223.01 | 15 min | 0.94 | 15 min | 1.04 |
| SC-224.01 | 15 min | 3.52 | 15 min | 3.85 |
| SC-225.01 | 15 min | 1.74 | 15 min | 1.92 |
| SC-226.01 | 15 min | 1.25 | 15 min | 1.39 |
| SC-226.02 | 15 min | 3.16 | 15 min | 3.46 |
| SC-226.03 | 15 min | 6.65 | 15 min | 7.27 |
| SC-226.04 | 15 min | 9.99 | 15 min | 10.78 |
| SC-226.05 | 15 min | 40.32 | 15 min | 44.21 |
| SC-226.06 | 15 min | 45.43 | 15 min | 49.54 |
| SC-226.07 | 15 min | 50.11 | 15 min | 54.90 |
| SC-226.08 | 15 min | 52.7 | 15 min | 57.53 |
| SC-227.01 | 15 min | 0.67 | 15 min | 0.74 |
| SC-228.01 | 15 min | 1.42 | 15 min | 1.58 |
| SC-229.01 | 15 min | 1 | 15 min | 1.11 |
| SC-23.01 | 15 min | 2.3 | 15 min | 2.00 |
| SC-23.02 | 15 min | 7.29 | 15 min | 6.35 |
| SC-23.03 | 15 min | 9.11 | 15 min | 7.95 |
| SC-230.01 | 15 min | 1 | 15 min | 1.10 |
| SC-231.01 | 15 min | 1.11 | 15 min | 1.22 |
| SC-232.01 | 15 min | 2.86 | 15 min | 3.12 |
| SC-232.02 | 15 min | 4.59 | 15 min | 4.96 |
| SC-232.03 | 15 min | 10.67 | 15 min | 11.69 |
| SC-233.01 | 15 min | 1.93 | 15 min | 2.15 |
| SC-233.02 | 15 min | 3.34 | 15 min | 3.70 |
| SC-234.01 | 15 min | 2.74 | 15 min | 3.22 |
| SC-234.02 | 15 min | 5.61 | 15 min | 6.49 |
| SC-234.03 | 15 min | 17.04 | 15 min | 19.25 |
| SC-235.01 | 15 min | 0.97 | 15 min | 1.17 |
| SC-236.01 | 15 min | 1.22 | 15 min | 1.52 |
| SC-236.02 | 15 min | 1.91 | 15 min | 2.37 |
| SC-237.01 | 15 min | 1.77 | 15 min | 1.97 |
| SC-237.02 | 15 min | 4.49 | 15 min | 4.92 |

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|---|---|---|---|---|
| SC-238.01 | 15 min | 1.13 | 15 min | 1.25 |
| SC-238.02 | 15 min | 2.76 | 15 min | 3.06 |
| SC-239.01 | 15 min | 1.49 | 15 min | 1.65 |
| SC-24.01 | 15 min | 2.01 | 15 min | 1.76 |
| SC-240.01 | 15 min | 5.01 | 15 min | 5.79 |
| SC-240.02 | 15 min | 7.03 | 15 min | 8.24 |
| SC-241.01 | 15 min | 22.38 | 15 min | 24.07 |
| SC-242.01 | 15 min | 2.05 | 15 min | 2.57 |
| SC-242.02 | 15 min | 5.21 | 15 min | 6.70 |
| SC-242.03 | 15 min | 7.85 | 15 min | 9.86 |
| SC-242.04 | 15 min | 8.42 | 15 min | 10.63 |
| SC-242.05 | 15 min | 19.06 | 15 min | 24.20 |
| SC-242.06 | 15 min | 25.54 | 15 min | 33.05 |
| SC-242.07 | 15 min | 28.12 | 15 min | 36.29 |
| SC-242.08 | 15 min | 56.7 | 15 min | 70.48 |
| SC-243.01 | 15 min | 1.8 | 15 min | 2.30 |
| SC-243.02 | 15 min | 6.92 | 15 min | 8.87 |
| SC-244.01 | 15 min | 2.53 | 15 min | 3.25 |
| SC-245.01 | 15 min | 1.34 | 15 min | 1.73 |
| SC-246.01 | 15 min | 0.93 | 15 min | 1.18 |
| SC-246.02 | 15 min | 2.83 | 15 min | 3.56 |
| SC-247.01 | 15 min | 2.63 | 15 min | 3.41 |
| SC-247.02 | 15 min | 7.49 | 15 min | 9.45 |
| SC-248.01 | 15 min | 3.8 | 15 min | 4.44 |
| SC-249.01 | 15 min | 0.98 | 15 min | 1.26 |
| SC-249.02 | 15 min | 2.61 | 15 min | 3.37 |
| SC-249.03 | 15 min | 5.15 | 15 min | 6.65 |
| SC-249.04 | 15 min | 12.29 | 15 min | 15.64 |
| SC-249.05 | 15 min | 36.78 | 15 min | 46.69 |
| SC-249.06 | 15 min | 68.83 | 15 min | 87.64 |
| SC-25.01 | 15 min | 6.05 | 15 min | 5.30 |
| SC-25.02 | 15 min | 9.06 | 15 min | 7.88 |
| SC-25.03 | 15 min | 10.01 | 15 min | 8.71 |
| SC-25.04 | 15 min | 16.99 | 15 min | 14.61 |
| SC-250.01 | 15 min | 0.62 | 15 min | 0.77 |
| SC-251.01 | 15 min | 1.46 | 15 min | 1.85 |
| SC-252.01 | 15 min | 1.73 | 15 min | 2.24 |
| SC-252.02 | 15 min | 3.15 | 15 min | 4.08 |
| SC-253.01 | 15 min | 2.41 | 15 min | 3.09 |
| SC-253.02 | 15 min | 9.06 | 15 min | 11.63 |
| SC-253.03 | 15 min | 11.14 | 15 min | 14.32 |
| SC-254.01 | 15 min | 2.48 | 15 min | 3.17 |
| SC-255.01 | 15 min | 2.47 | 15 min | 3.21 |
| SC-256.01 | 15 min | 2.09 | 15 min | 2.73 |
| SC-257.01 | 15 min | 1.18 | 15 min | 1.52 |
| SC-258.01 | 15 min | 5.48 | 15 min | 7.07 |
| SC-258.02 | 15 min | 10.2 | 15 min | 13.28 |
| SC-259.01 | 15 min | 2.37 | 15 min | 2.99 |
| SC-259.02 | 15 min | 4.93 | 15 min | 6.28 |
| SC-259.03 | 15 min | 7.04 | 15 min | 8.97 |

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|---|---|---|---|---|
| SC-259.04 | 15 min | 12.73 | 15 min | 16.10 |
| SC-259.05 | 15 min | 15.69 | 15 min | 19.94 |
| SC-259.06 | 15 min | 20.33 | 15 min | 25.81 |
| SC-259.07 | 15 min | 27.07 | 15 min | 34.01 |
| SC-259.08 | 15 min | 31.12 | 15 min | 39.54 |
| SC-259.09 | 15 min | 89.39 | 15 min | 107.12 |
| SC-259.10 | 15 min | 91.28 | 15 min | 109.65 |
| SC-26.01 | 15 min | 1.91 | 15 min | 1.67 |
| SC-260.01 | 15 min | 1.48 | 15 min | 1.90 |
| SC-261.01 | 15 min | 2 | 15 min | 2.51 |
| SC-262.01 | 15 min | 2.15 | 15 min | 2.77 |
| SC-262.02 | 15 min | 4.03 | 15 min | 5.14 |
| SC-263.01 | 15 min | 2.3 | 15 min | 2.96 |
| SC-264.01 | 15 min | 1.25 | 15 min | 1.61 |
| SC-265.01 | 15 min | 1.68 | 15 min | 1.98 |
| SC-265.02 | 15 min | 5.18 | 15 min | 5.98 |
| SC-265.03 | 15 min | 9.45 | 15 min | 11.13 |
| SC-265.04 | 15 min | 42.58 | 15 min | 50.05 |
| SC-266.01 | 15 min | 2.39 | 15 min | 2.83 |
| SC-266.02 | 15 min | 4.54 | 15 min | 5.33 |
| SC-266.03 | 15 min | 5.33 | 15 min | 6.26 |
| SC-266.04 | 15 min | 21.92 | 15 min | 25.69 |
| SC-266.05 | 15 min | 26.05 | 15 min | 30.80 |
| SC-267.01 | 15 min | 2.04 | 15 min | 2.42 |
| SC-268.01 | 15 min | 3.47 | 15 min | 4.08 |
| SC-268.02 | 15 min | 9.8 | 15 min | 11.57 |
| SC-269.01 | 15 min | 1.85 | 15 min | 2.21 |
| SC-27.01 | 15 min | 2.23 | 15 min | 1.96 |
| SC-270.01 | 15 min | 2.14 | 15 min | 2.55 |
| SC-271.01 | 15 min | 1.31 | 15 min | 1.56 |
| SC-272.01 | 15 min | 3.13 | 15 min | 3.67 |
| SC-272.02 | 15 min | 6.23 | 15 min | 7.25 |
| SC-272.03 | 15 min | 10.11 | 15 min | 11.72 |
| SC-273.01 | 15 min | 2.81 | 15 min | 3.32 |
| SC-274.01 | 30 min | 1.63 | 15 min | 2.08 |
| SC-274.02 | 15 min | 5.21 | 15 min | 6.77 |
| SC-274.03 | 15 min | 12.26 | 15 min | 15.76 |
| SC-274.04 | 15 min | 15.97 | 15 min | 20.47 |
| SC-274.05 | 15 min | 21.3 | 15 min | 27.13 |
| SC-275.01 | 15 min | 2.23 | 15 min | 2.85 |
| SC-276.01 | 15 min | 1.6 | 15 min | 2.06 |
| SC-277.01 | 15 min | 2.16 | 15 min | 2.79 |
| SC-278.01 | 15 min | 1.24 | 15 min | 1.60 |
| SC-278.02 | 15 min | 20.1 | 15 min | 25.65 |
| SC-279.01 | 15 min | 2.61 | 15 min | 3.40 |
| SC-279.02 | 15 min | 18.79 | 15 min | 23.89 |
| SC-28.01 | 15 min | 2.35 | 15 min | 2.01 |
| SC-28.02 | 15 min | 4.81 | 15 min | 4.08 |
| SC-28.03 | 15 min | 6.57 | 15 min | 5.52 |
| SC-28.04 | 15 min | 12.87 | 15 min | 10.92 |

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|---|---|---|---|---|
| SC-280.01 | 15 min | 2.29 | 15 min | 2.98 |
| SC-29.01 | 15 min | 1.87 | 15 min | 1.64 |
| SC-29.02 | 15 min | 5.43 | 15 min | 4.71 |
| SC-3.01 | 15 min | 2.39 | 15 min | 2.38 |
| SC-3.02 | 15 min | 8.02 | 15 min | 7.70 |
| SC-30.01 | 15 min | 3.3 | 15 min | 2.91 |
| SC-30.02 | 15 min | 6.39 | 15 min | 5.58 |
| SC-30.03 | 15 min | 8.9 | 15 min | 7.71 |
| SC-30.04 | 15 min | 11.31 | 15 min | 9.81 |
| SC-31.01 | 15 min | 2.51 | 15 min | 2.21 |
| SC-31.02 | 15 min | 5.23 | 15 min | 4.62 |
| SC-32.01 | 15 min | 2.72 | 15 min | 2.36 |
| SC-32.02 | 15 min | 3.96 | 15 min | 3.44 |
| SC-33.01 | 15 min | 2.79 | 15 min | 2.56 |
| SC-33.02 | 15 min | 6.7 | 15 min | 5.98 |
| SC-34.01 | 15 min | 2.36 | 15 min | 2.07 |
| SC-34.02 | 15 min | 4.89 | 15 min | 4.31 |
| SC-34.03 | 15 min | 5.84 | 15 min | 5.17 |
| SC-35.01 | 15 min | 1.93 | 15 min | 1.80 |
| SC-35.02 | 15 min | 5.65 | 15 min | 5.06 |
| SC-35.03 | 15 min | 9.03 | 15 min | 7.89 |
| SC-35.04 | 15 min | 9.72 | 15 min | 8.51 |
| SC-36.01 | 15 min | 4.28 | 15 min | 3.75 |
| SC-36.02 | 15 min | 7.72 | 15 min | 6.64 |
| SC-37.01 | 15 min | 1.66 | 15 min | 1.46 |
| SC-37.02 | 15 min | 4.84 | 15 min | 4.22 |
| SC-38.01 | 15 min | 1.98 | 15 min | 1.72 |
| SC-39.01 | 15 min | 1.12 | 15 min | 1.02 |
| SC-4.01 | 15 min | 2.93 | 15 min | 2.88 |
| SC-40.01 | 15 min | 2.52 | 15 min | 2.33 |
| SC-41.01 | 15 min | 1.62 | 15 min | 1.51 |
| SC-42.01 | 15 min | 5.59 | 15 min | 5.20 |
| SC-43.01 | 15 min | 1.17 | 15 min | 1.11 |
| SC-44.01 | 15 min | 3.49 | 15 min | 3.46 |
| SC-44.02 | 15 min | 5.85 | 15 min | 5.77 |
| SC-44.03 | 15 min | 8.08 | 15 min | 7.91 |
| SC-44.04 | 15 min | 12.49 | 15 min | 12.28 |
| SC-44.05 | 15 min | 22.52 | 15 min | 22.16 |
| SC-44.06 | 15 min | 24.66 | 15 min | 24.23 |
| SC-44.07 | 15 min | 29.38 | 15 min | 29.29 |
| SC-44.08 | 15 min | 37.41 | 15 min | 37.26 |
| SC-44.09 | 15 min | 41.4 | 15 min | 41.22 |
| SC-44.10 | 30 min | 37.13 | 30 min | 35.92 |
| SC-44.11 | 30 min | 95.92 | 30 min | 91.34 |
| SC-44.12 | 45 min | 78.96 | 45 min | 72.94 |
| SC-44.13 | 45 min | 78.36 | 45 min | 72.09 |
| SC-44.14 | 1.50 hour | 87.86 | 1 hour | 79.86 |
| SC-44.15 | 1.50 hour | 98.43 | 1 hour | 86.30 |
| SC-44.16 | 1.50 hour | 98.88 | 1 hour | 86.58 |
| SC-44.17 | 1.50 hour | 110.6 | 1 hour | 91.89 |

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|---|---|---|---|---|
| SC-44.18 | 1.50 hour | 111.84 | 1 hour | 92.24 |
| SC-44.19 | 1.50 hour | 114.23 | 1 hour | 92.56 |
| SC-44.20 | 1.50 hour | 98.45 | 1 hour | 74.44 |
| SC-45.01 | 15 min | 2.75 | 15 min | 2.74 |
| SC-46.01 | 15 min | 2.13 | 15 min | 2.13 |
| SC-46.02 | 15 min | 3.84 | 15 min | 3.81 |
| SC-46.03 | 15 min | 5.75 | 15 min | 5.66 |
| SC-46.04 | 15 min | 6.52 | 15 min | 6.43 |
| SC-47.01 | 15 min | 3.43 | 15 min | 3.39 |
| SC-48.01 | 15 min | 2.58 | 15 min | 2.57 |
| SC-48.02 | 15 min | 4.34 | 15 min | 4.27 |
| SC-49.01 | 15 min | 2.94 | 15 min | 2.89 |
| SC-5.01 | 15 min | 1.95 | 15 min | 1.95 |
| SC-50.01 | 15 min | 1.15 | 15 min | 1.15 |
| SC-51.01 | 15 min | 1.07 | 15 min | 1.05 |
| SC-52.01 | 15 min | 1.07 | 15 min | 1.05 |
| SC-53.01 | 15 min | 2.51 | 15 min | 2.49 |
| SC-53.02 | 15 min | 5.53 | 15 min | 5.47 |
| SC-53.03 | 15 min | 6.72 | 15 min | 6.65 |
| SC-54.01 | 15 min | 2.04 | 15 min | 2.03 |
| SC-54.02 | 15 min | 4.23 | 15 min | 4.18 |
| SC-55.01 | 15 min | 3.16 | 15 min | 3.14 |
| SC-56.01 | 15 min | 1.62 | 15 min | 1.61 |
| SC-57.01 | 15 min | 1.26 | 15 min | 1.25 |
| SC-58.01 | 15 min | 2.06 | 15 min | 2.02 |
| SC-59.01 | 15 min | 2.83 | 15 min | 2.80 |
| SC-59.02 | 15 min | 5.65 | 15 min | 5.60 |
| SC-59.03 | 15 min | 8.23 | 15 min | 8.07 |
| SC-59.04 | 15 min | 10.57 | 15 min | 10.39 |
| SC-59.05 | 15 min | 24.14 | 15 min | 23.73 |
| SC-59.06 | 15 min | 28.64 | 15 min | 28.50 |
| SC-59.07 | 15 min | 50.07 | 15 min | 48.87 |
| SC-59.08 | 15 min | 54.23 | 15 min | 52.28 |
| SC-59.09 | 15 min | 66.89 | 15 min | 64.18 |
| SC-59.10 | 15 min | 67.28 | 15 min | 63.94 |
| SC-6.01 | 15 min | 2.29 | 15 min | 2.27 |
| SC-60.01 | 15 min | 2.28 | 15 min | 2.27 |
| SC-60.02 | 15 min | 8.7 | 15 min | 8.59 |
| SC-61.01 | 15 min | 4.43 | 15 min | 4.45 |
| SC-62.01 | 15 min | 2.49 | 15 min | 2.45 |
| SC-63.01 | 15 min | 1.64 | 15 min | 1.64 |
| SC-64.01 | 15 min | 2 | 15 min | 1.80 |
| SC-64.02 | 15 min | 6.99 | 15 min | 6.67 |
| SC-64.03 | 15 min | 13.22 | 15 min | 12.27 |
| SC-64.04 | 15 min | 19.48 | 15 min | 18.37 |
| SC-65.01 | 15 min | 1.46 | 15 min | 1.42 |
| SC-66.01 | 15 min | 1.29 | 15 min | 1.28 |
| SC-66.02 | 15 min | 3.45 | 15 min | 3.35 |
| SC-67.01 | 15 min | 2.27 | 15 min | 2.02 |
| SC-68.01 | 15 min | 3.18 | 15 min | 2.79 |

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|---|---|---|---|---|
| SC-68.02 | 15 min | 6.47 | 15 min | 5.64 |
| SC-68.03 | 15 min | 11.32 | 15 min | 9.92 |
| SC-69.01 | 15 min | 2.64 | 15 min | 2.32 |
| SC-7.01 | 15 min | 3.75 | 15 min | 3.35 |
| SC-70.01 | 15 min | 2.28 | 15 min | 2.24 |
| SC-70.02 | 15 min | 3.79 | 15 min | 3.67 |
| SC-71.01 | 15 min | 3.17 | 15 min | 2.79 |
| SC-71.02 | 15 min | 6.29 | 15 min | 5.67 |
| SC-72.01 | 15 min | 3 | 15 min | 2.98 |
| SC-73.01 | 15 min | 2.62 | 15 min | 2.46 |
| SC-74.01 | 15 min | 2.8 | 15 min | 2.78 |
| SC-75.01 | 15 min | 2.18 | 15 min | 1.92 |
| SC-75.02 | 15 min | 8.99 | 15 min | 7.75 |
| SC-75.03 | 15 min | 12.93 | 15 min | 11.29 |
| SC-75.04 | 15 min | 21.38 | 15 min | 19.08 |
| SC-76.01 | 15 min | 3.13 | 15 min | 2.76 |
| SC-77.01 | 15 min | 3.43 | 15 min | 3.28 |
| SC-77.02 | 15 min | 5.32 | 15 min | 4.95 |
| SC-77.03 | 15 min | 7.92 | 15 min | 7.27 |
| SC-78.01 | 15 min | 3.12 | 15 min | 3.10 |
| SC-79.01 | 15 min | 3.54 | 15 min | 3.45 |
| SC-79.02 | 15 min | 6.55 | 15 min | 6.37 |
| SC-79.03 | 15 min | 14.84 | 15 min | 14.38 |
| SC-8.01 | 15 min | 2.88 | 15 min | 2.83 |
| SC-8.02 | 15 min | 7.54 | 15 min | 6.96 |
| SC-8.03 | 15 min | 20.29 | 15 min | 18.10 |
| SC-8.04 | 15 min | 35.11 | 15 min | 31.54 |
| SC-8.05 | 15 min | 39.18 | 15 min | 34.99 |
| SC-8.06 | 15 min | 41.34 | 15 min | 36.91 |
| SC-80.01 | 15 min | 3.27 | 15 min | 3.25 |
| SC-80.02 | 15 min | 6.95 | 15 min | 6.86 |
| SC-81.01 | 15 min | 3.01 | 15 min | 2.65 |
| SC-81.02 | 15 min | 8.77 | 15 min | 7.66 |
| SC-82.01 | 15 min | 3.32 | 15 min | 2.92 |
| SC-83.01 | 15 min | 1.85 | 15 min | 1.84 |
| SC-84.01 | 15 min | 3.21 | 15 min | 2.82 |
| SC-84.02 | 15 min | 7.97 | 15 min | 7.02 |
| SC-84.03 | 15 min | 10.57 | 15 min | 9.31 |
| SC-84.04 | 15 min | 12.5 | 15 min | 11.03 |
| SC-84.05 | 15 min | 15.37 | 15 min | 13.60 |
| SC-84.06 | 15 min | 17.53 | 15 min | 15.50 |
| SC-85.01 | 15 min | 1.97 | 15 min | 1.71 |
| SC-86.01 | 15 min | 2.58 | 15 min | 2.56 |
| SC-86.02 | 15 min | 5.21 | 15 min | 5.11 |
| SC-87.01 | 15 min | 4.26 | 15 min | 3.73 |
| SC-87.02 | 15 min | 7.54 | 15 min | 6.56 |
| SC-88.01 | 15 min | 1.95 | 15 min | 1.80 |
| SC-88.02 | 15 min | 3.48 | 15 min | 3.17 |
| SC-89.01 | 15 min | 2.11 | 15 min | 1.93 |
| SC-89.02 | 15 min | 2.49 | 15 min | 2.26 |

| | | | | |
|---|---|---|---|---|
| SC-9.01 | 15 min | 2.73 | 15 min | 2.44 |
| SC-90.01 | 15 min | 0.83 | 15 min | 0.80 |
| SC-91.01 | 15 min | 2.38 | 15 min | 2.22 |
| SC-91.02 | 15 min | 5.21 | 15 min | 4.87 |
| SC-92.01 | 15 min | 2.45 | 15 min | 2.47 |
| SC-92.02 | 15 min | 7.12 | 15 min | 7.15 |
| SC-93.01 | 15 min | 2.75 | 15 min | 2.56 |
| SC-94.01 | 15 min | 2.9 | 15 min | 2.64 |
| SC-94.02 | 15 min | 7.12 | 15 min | 6.67 |
| SC-95.01 | 15 min | 1.49 | 15 min | 1.57 |
| SC-95.02 | 15 min | 3.76 | 15 min | 3.93 |
| SC-96.01 | 15 min | 1.69 | 15 min | 1.77 |
| SC-97.01 | 15 min | 1.26 | 15 min | 1.18 |
| SC-97.02 | 15 min | 7.95 | 15 min | 7.44 |
| SC-98.01 | 15 min | 2.32 | 15 min | 2.15 |
| SC-99.01 | 15 min | 1.98 | 15 min | 2.06 |
| SC-99.02 | 15 min | 5.82 | 15 min | 6.09 |
| SC-99.03 | 15 min | 10.1 | 15 min | 10.56 |
| SC-99.04 | 15 min | 27.37 | 15 min | 28.29 |
| Dummy1 | 15 min | 142.9 | 15 min | 177.38 |
| Dummy2 | 30 min | 246.18 | 30 min | 285.08 |
| Dummy3 | 45 min | 520.92 | 45 min | 510.49 |
| DummyOut | 1.50 hour | 647.48 | 1.50 hour | 554.77 |