



SNOWY VALLEYS COUNCIL

**ADELONG
FLOODPLAIN RISK MANAGEMENT STUDY AND PLAN**

JULY 2018

VOLUME 2 – FIGURES AND APPENDICES

DRAFT REPORT FOR PUBLIC EXHIBITION

Job No: DP424 File: AFRMS_V2_Figures_[Rev 1.2].docx	Date: August 2018 Rev No: 1.2	Principal: SAB Author: SAB/DW
--	----------------------------------	----------------------------------

COPYRIGHT NOTICE

This document, Adelong Floodplain Risk Management Study and Plan 2018, is licensed under the [Creative Commons Attribution 4.0 Licence](#), unless otherwise indicated.

Please give attribution to: © Snowy Valleys Council 2018

We also request that you observe and retain any notices that may accompany this material as part of the attribution.

Notice Identifying Other Material and/or Rights in this Publication:

The author of this document has taken steps to both identify third-party material and secure permission for its reproduction and reuse. However, please note that where these third-party materials are not licensed under a Creative Commons licence, or similar terms of use, you should obtain permission from the rights holder to reuse their material beyond the ways you are permitted to use them under the [Copyright Act 1968](#). Please see the Table of References at the rear of this document for a list identifying other material and/or rights in this document.

Further Information

For further information about the copyright in this document, please contact:

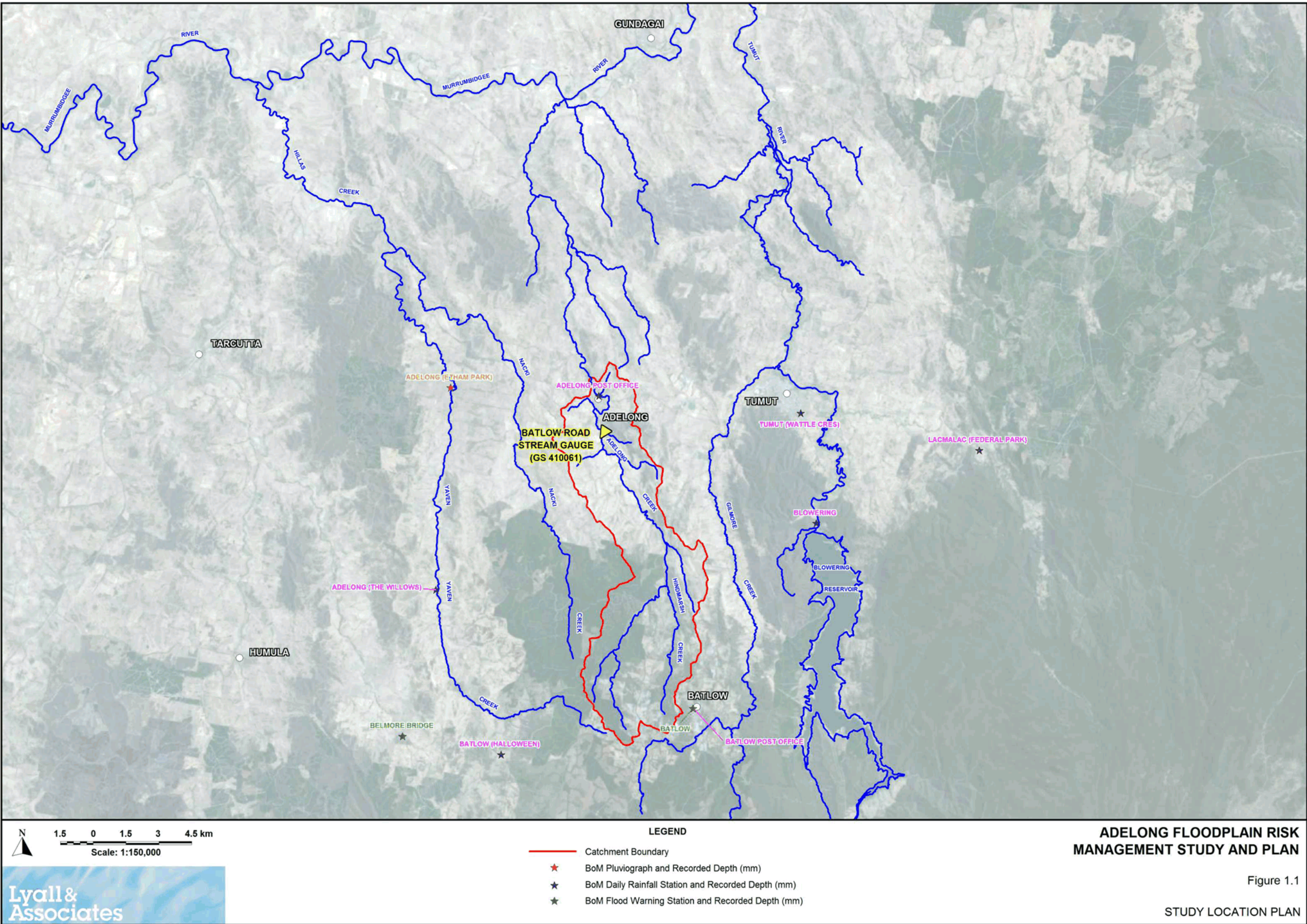
Snowy Valleys Council
76 Capper Street, Tumut
tumutadmin@snowyvalleys.nsw.gov.au
6941 2555

DISCLAIMER

The [Creative Commons Attribution 4.0 Licence](#) contains a Disclaimer of Warranties and Limitation of Liability. In addition: **This document (and its associated data or other collateral materials, if any, collectively referred to herein as the 'document') were produced by Lyall & Associates Consulting Water Engineers for Snowy Valleys Council only. The views expressed in the document are those of the author(s) alone, and do not necessarily represent the views of the Snowy Valleys Council. Reuse of this study or its associated data by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based upon the contents of this document.**

LIST OF FIGURES

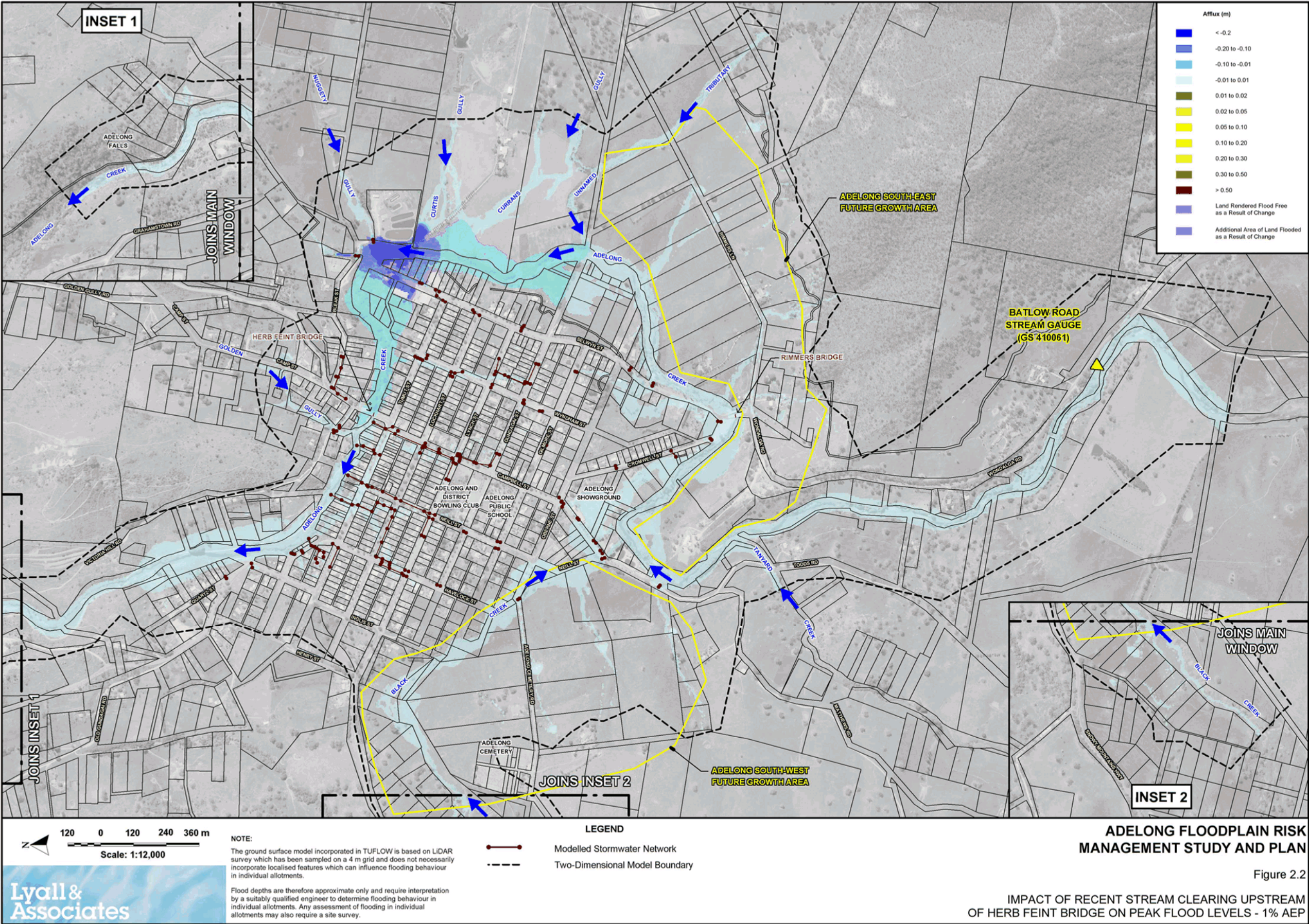
- 1.1 Study Location Plan
- 2.1 Existing Stormwater Drainage System
- 2.2 Impact of Recent Stream Clearing Upstream of Herb Feint Bridge on Peak Flood Levels – 1% AEP
- 2.3 Indicative Extent and Depths of Inundation – 1% AEP
- 2.4 Indicative Extent and Depths of Inundation – PMF
- 2.5 Design Water Surface Profiles
- 2.6 Time of Rise of Floodwaters
- 2.7 Indicative Extent of Inundation and Location of Critical Infrastructure
- 2.8 Flood Hazard and Hydraulic Categorisation of Floodplain
- 2.9 Tumut LEP 2012 Zoning
- 2.10 Indicative Extent and Depths of Inundation – Partially Blocked Conditions – 1% AEP
- 2.11 Impact of Partially Blocked Road Bridges on Peak Flood Levels – 1% AEP
- 2.12 Flood Hazard and Hydraulic Categorisation of Floodplain – Partially Blocked Conditions
- 2.13 Potential Impact of Future Urbanisation on Flooding and Drainage Patterns – 1% AEP
- 2.14 Potential Impact of a 10% Increase in Rainfall on Flooding and Drainage Patterns – 1% AEP
- 2.15 Potential Impact of a 30% Increase in Rainfall on Flooding and Drainage Patterns – 1% AEP
- 2.16 Potential Impact of Climate Change and Partially Blocked Road Bridges on Hydraulic Categorisation of Floodplain – 1% AEP
- 3.1 Impact of Potential Flood Protection Levee on Flooding Behaviour – 1% AEP
- 3.2 Impact of Stream Clearing Upstream of Curtis Gully on Flooding Behaviour – 1% AEP
- 3.3 Impact of Stormwater System Upgrade on Local Flooding Behaviour – 10% AEP, 5% AEP and 1% AEP
- 3.4 Impact of Debris Control Structure on Flooding Behaviour – 1% AEP
- 3.5 Impact of Partially Blocked Debris Control Structure on Flooding Behaviour – 1% AEP
- 3.6 Available Freeboard to Existing Development Located Along Tumut Street – 1% AEP
- 3.7 Comparison of Flood Planning Levels Along Tumut Street
- 3.8 Flood Emergency Response Planning Classifications – 1% AEP
- 3.9 Flood Emergency Response Planning Classifications – PMF



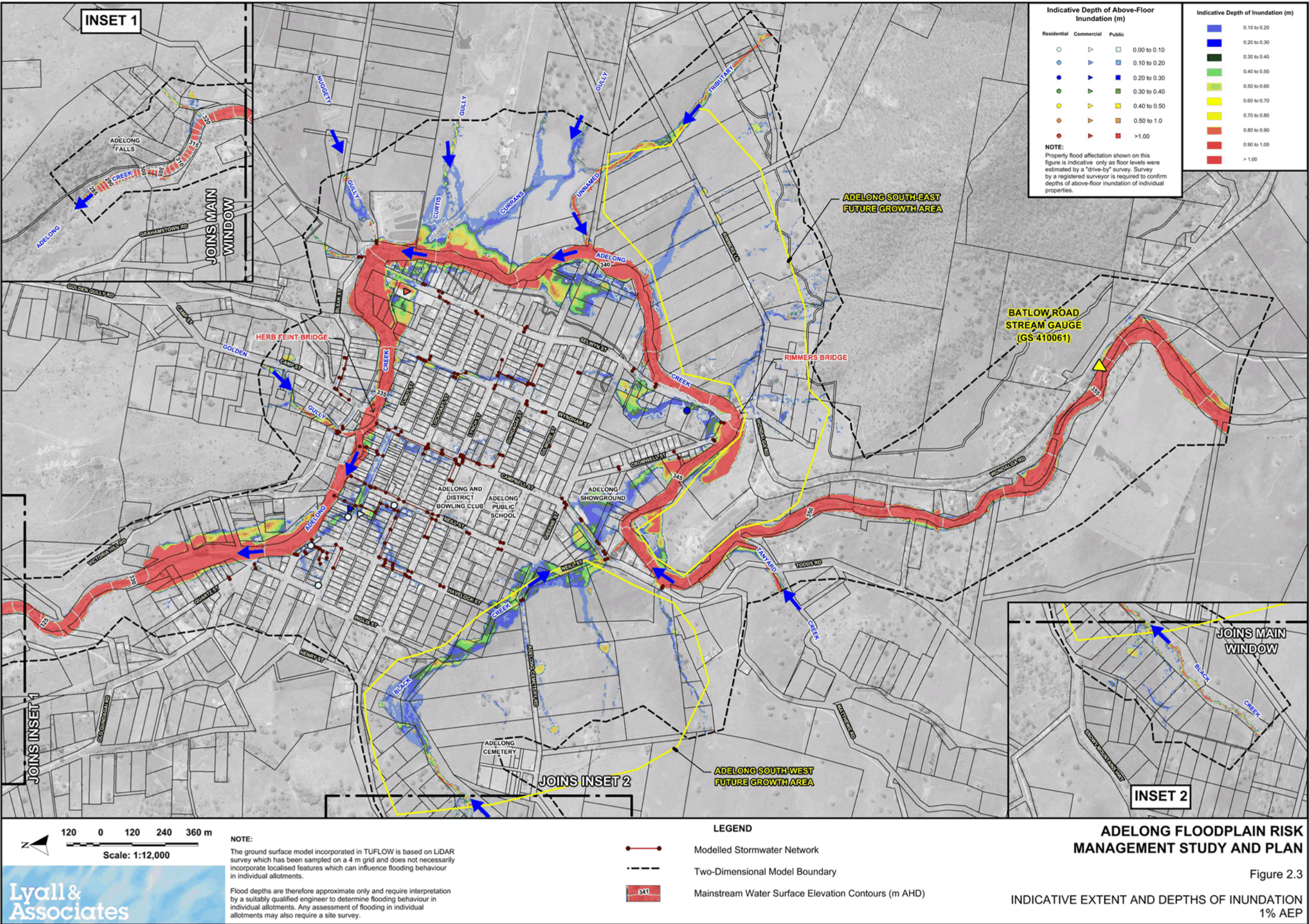
Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018



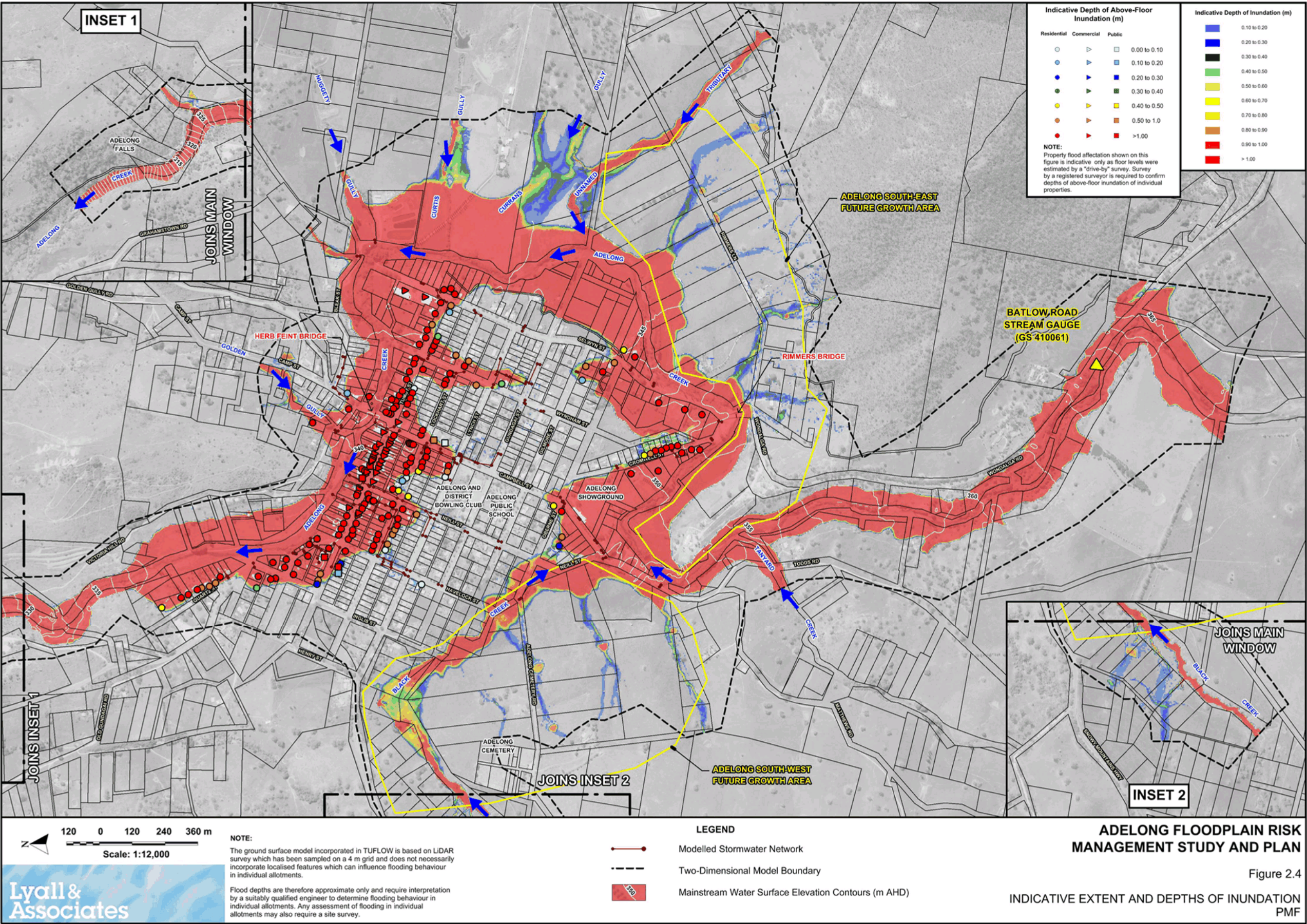
Figure 2.1

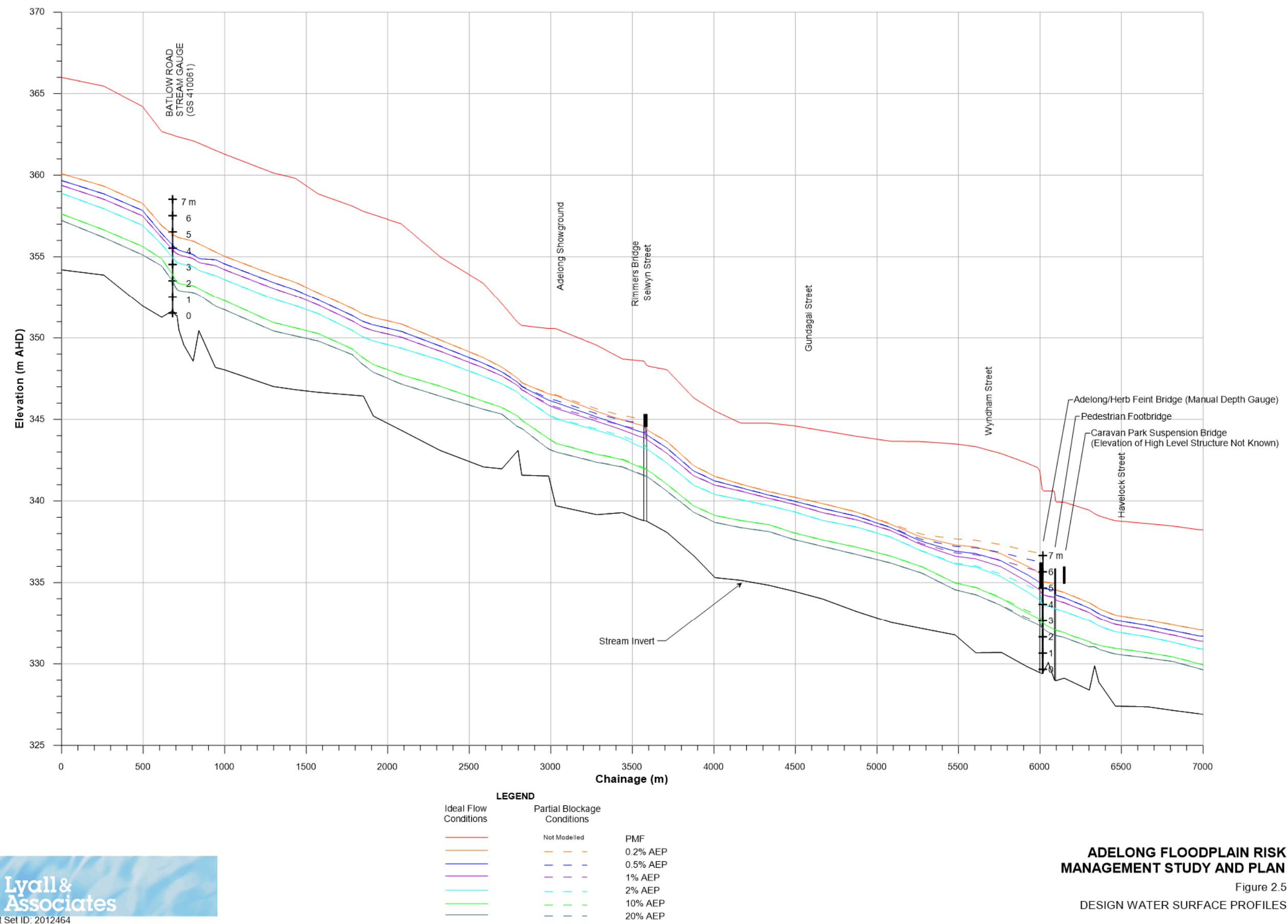


Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

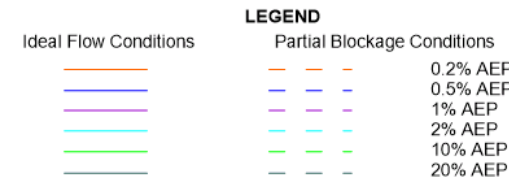
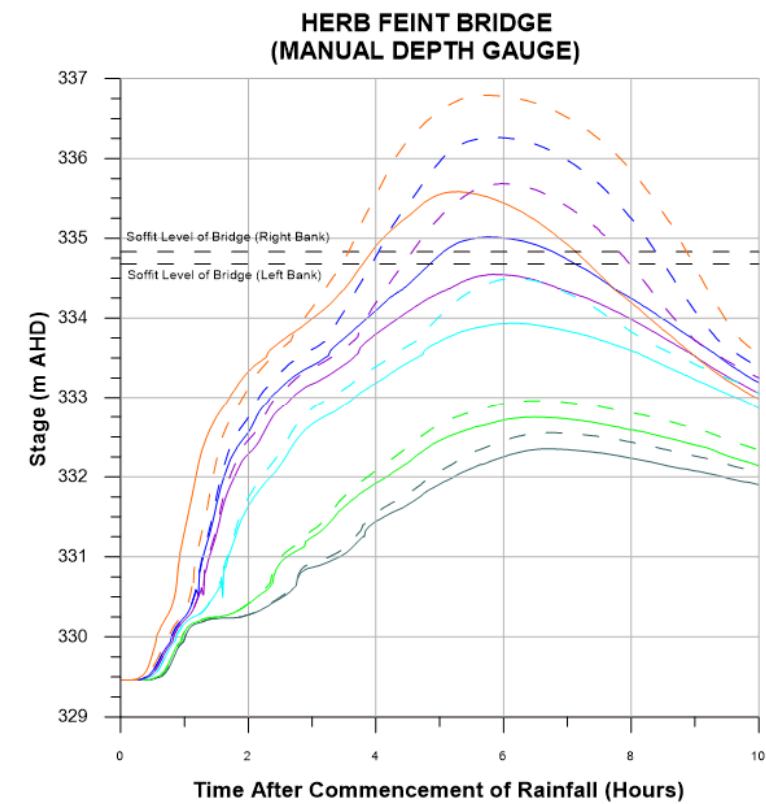
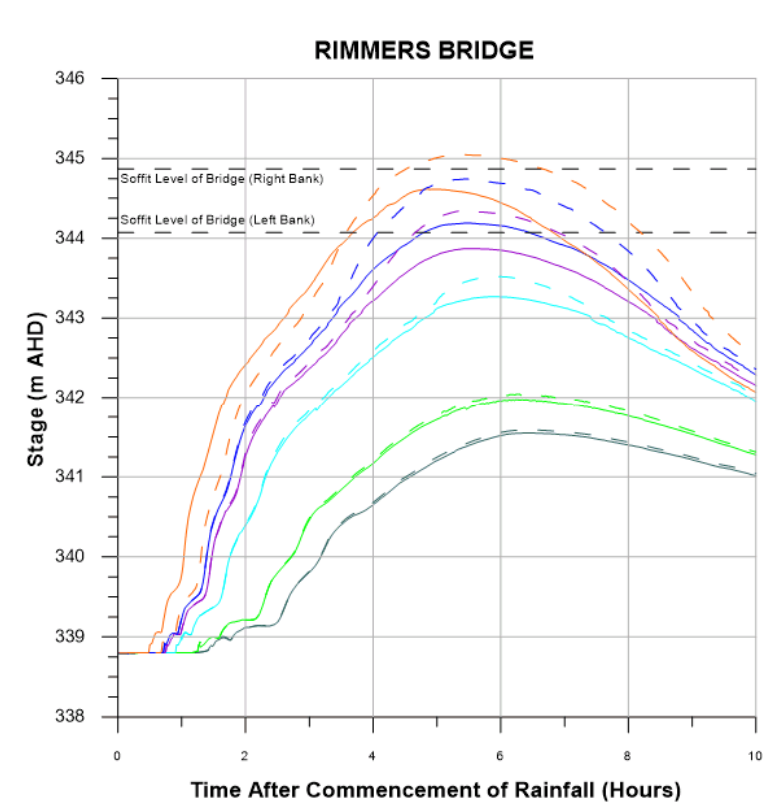
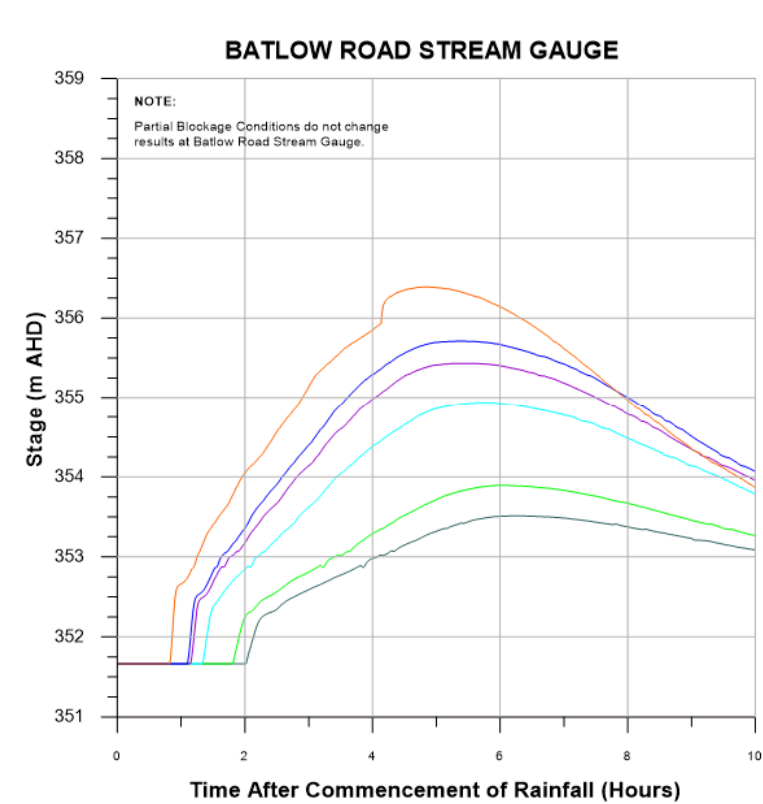
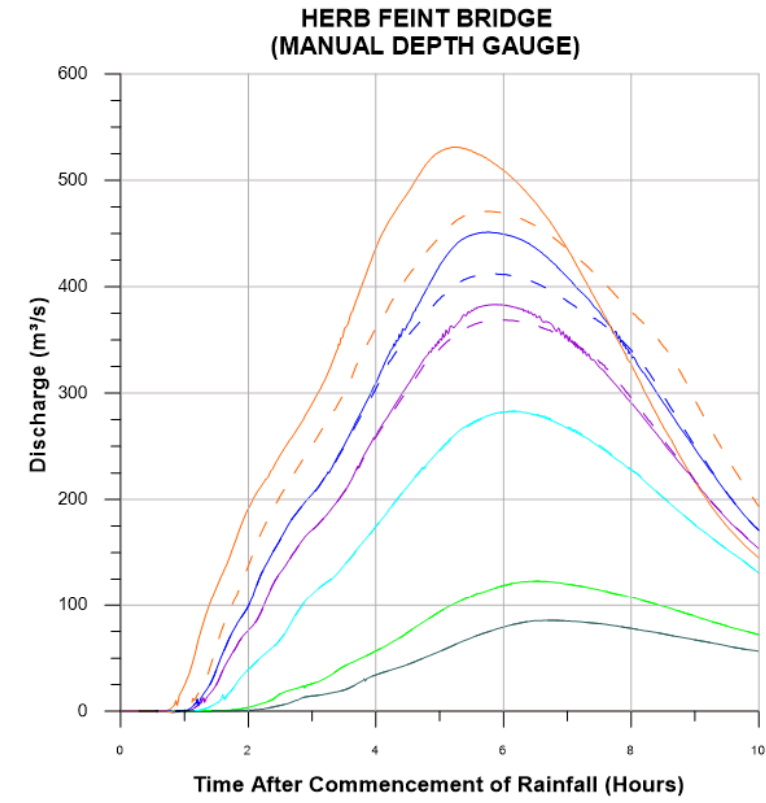
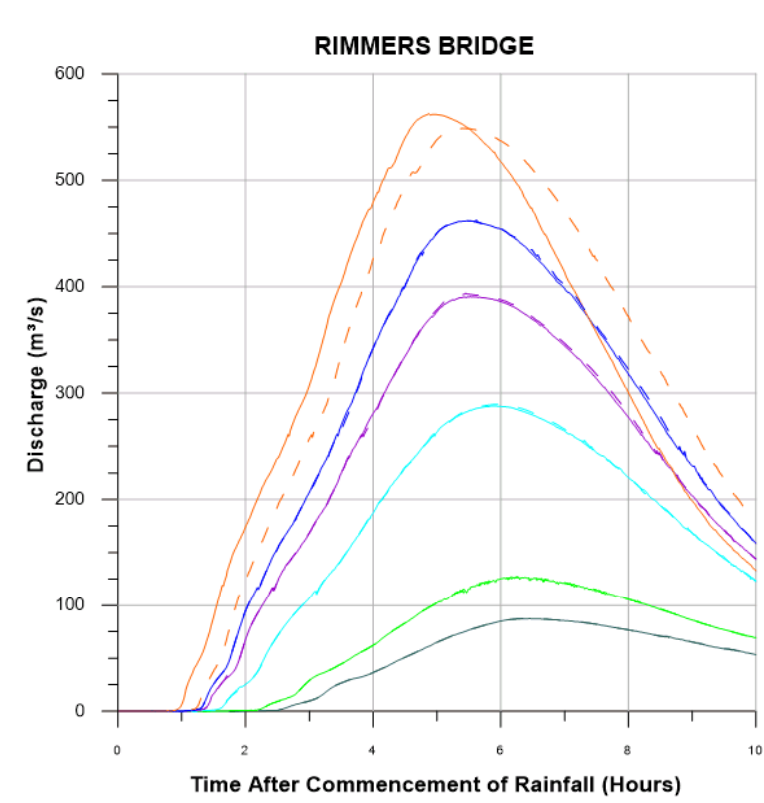
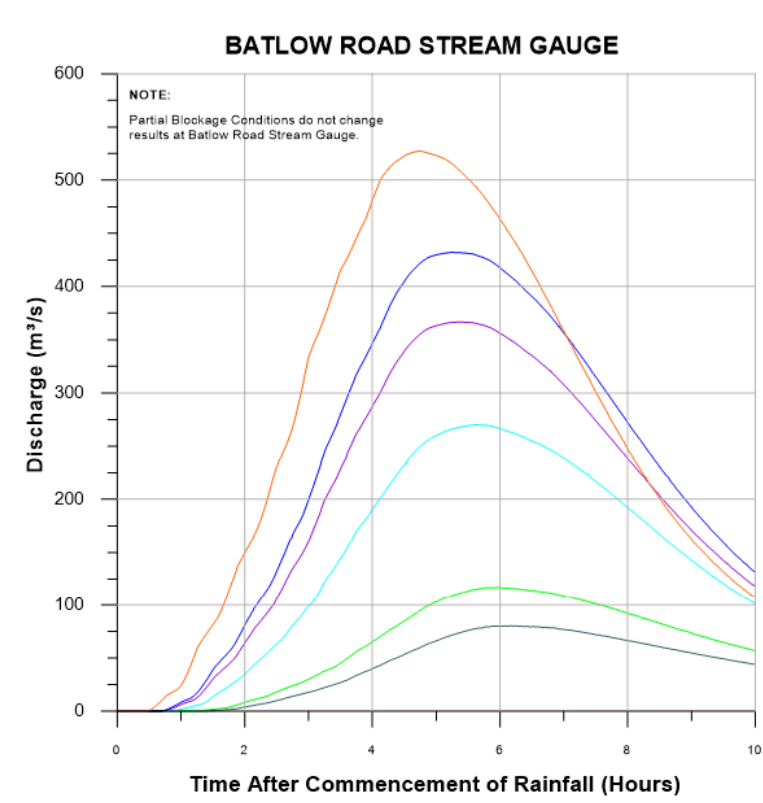


Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018



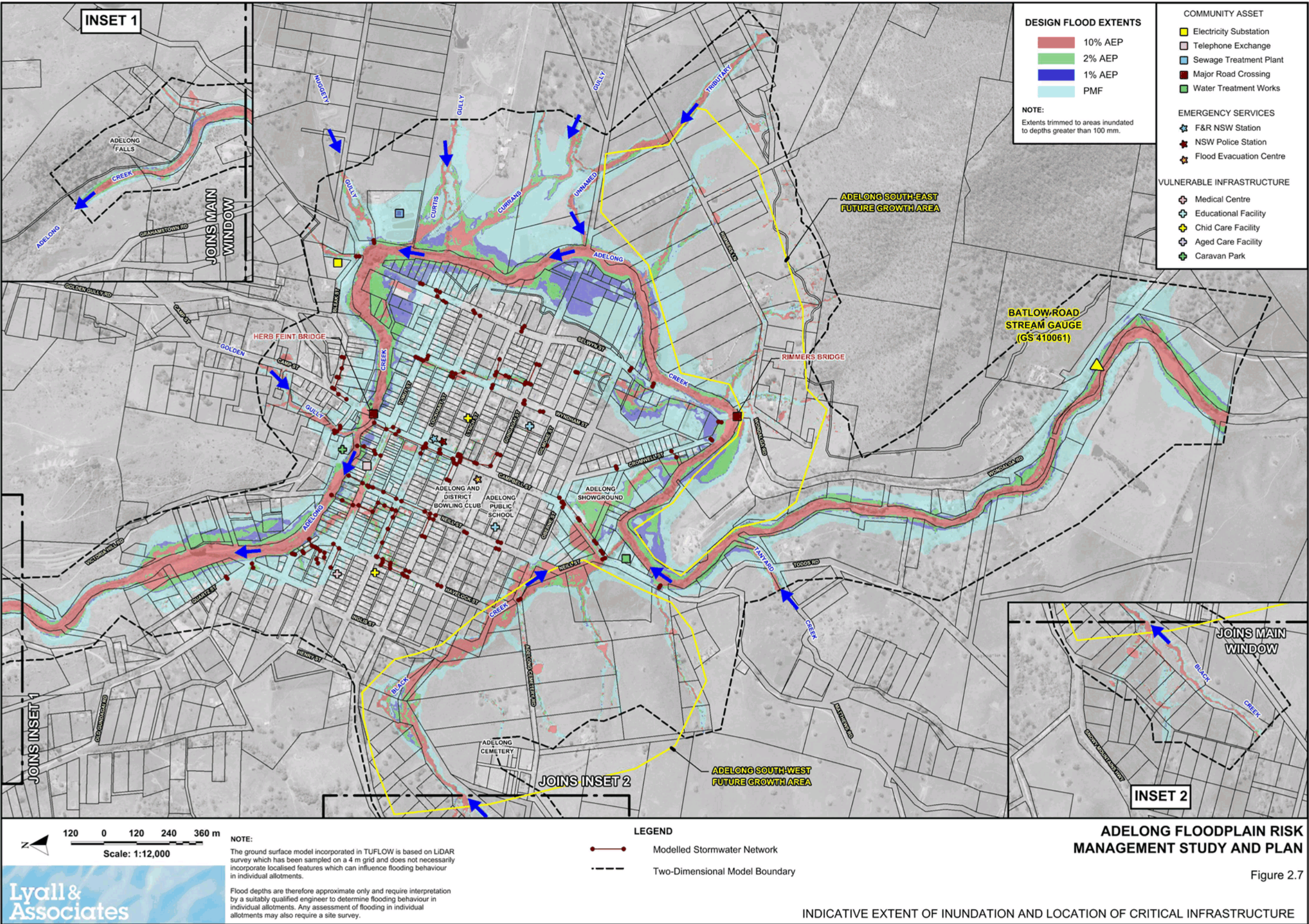


Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

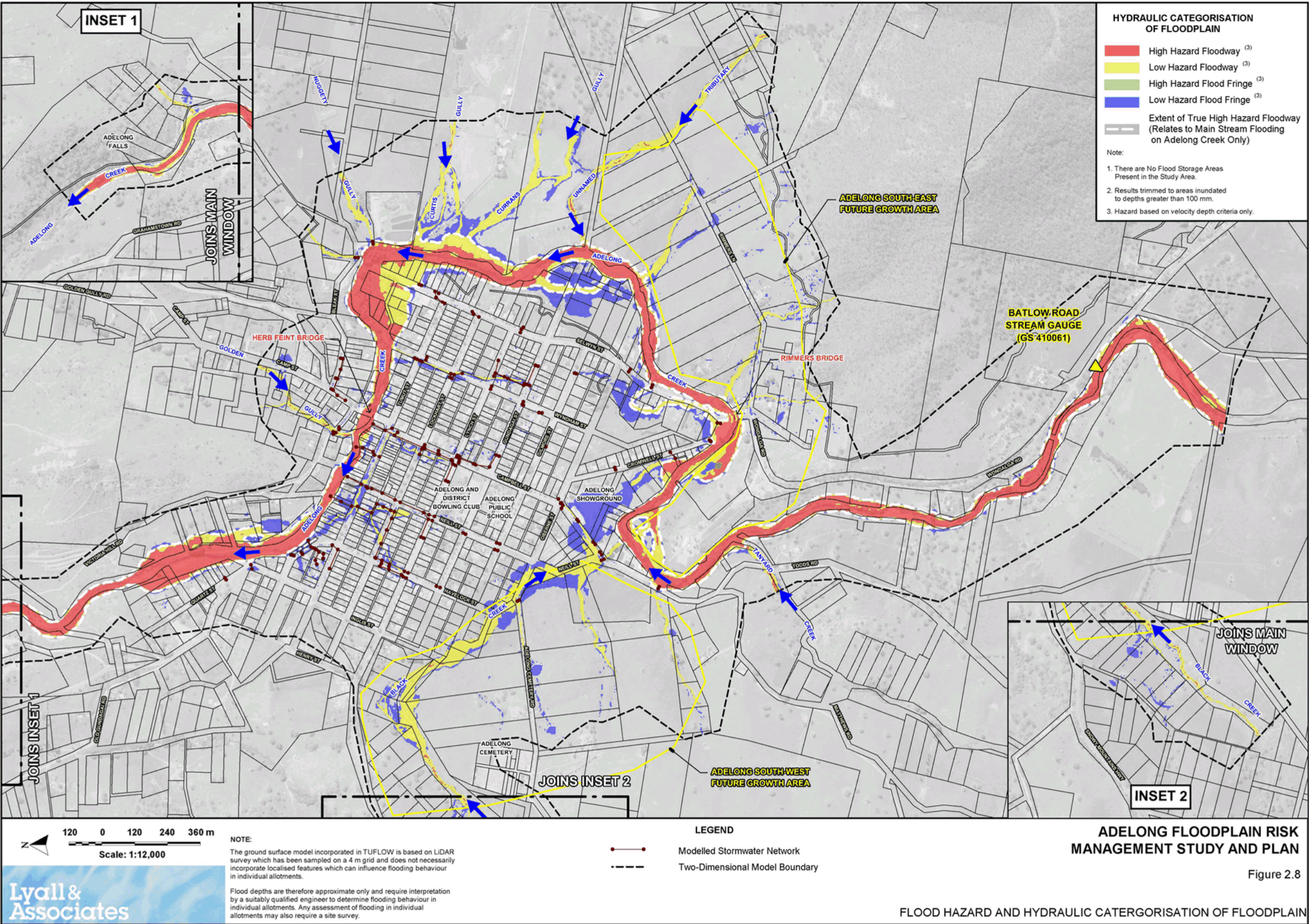


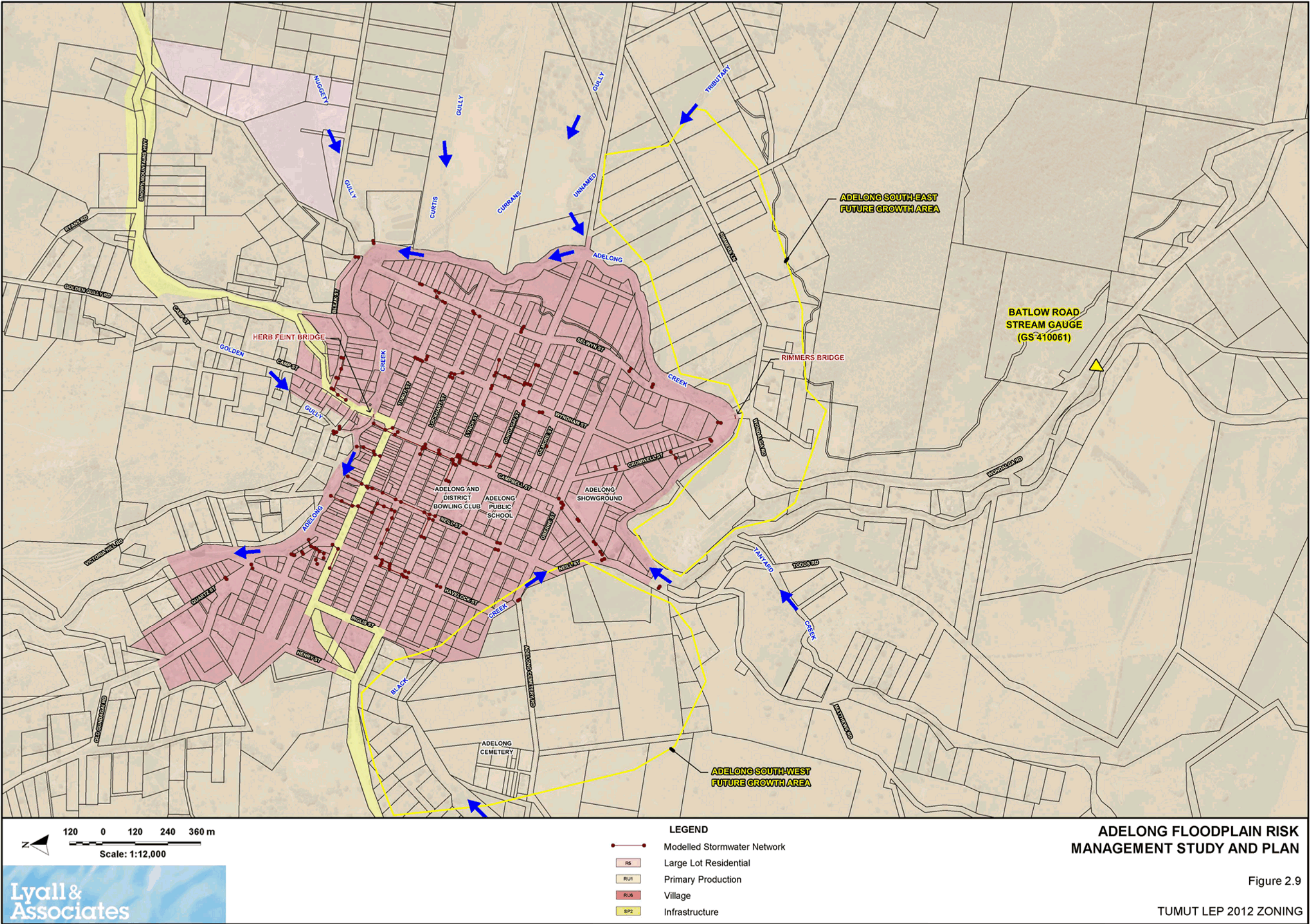
**ADELONG FLOODPLAIN RISK
MANAGEMENT STUDY AND PLAN**

Figure 2.6
TIME OF RISE OF FLOODWATERS

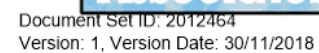


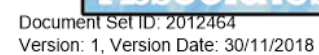
Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

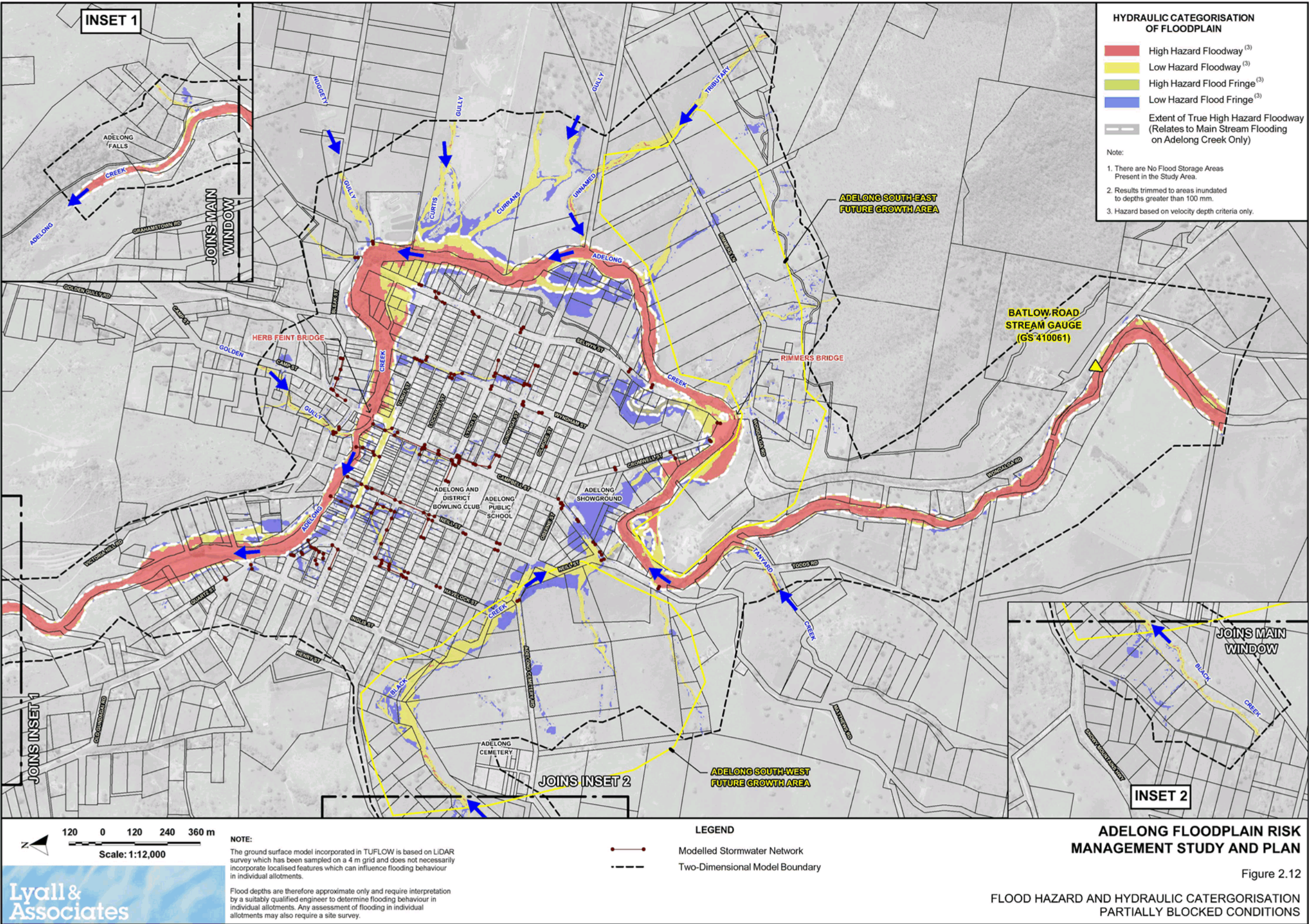


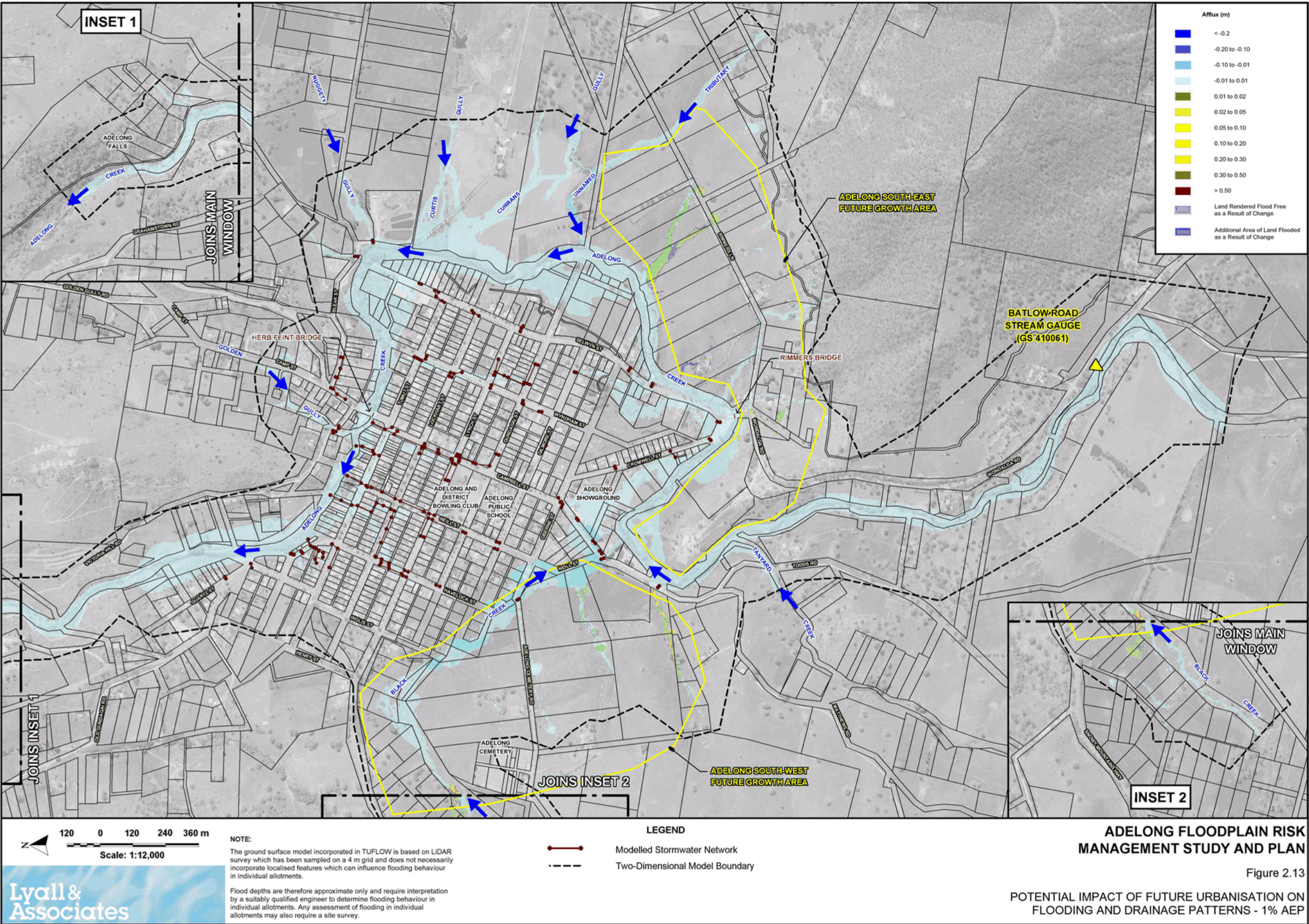


Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

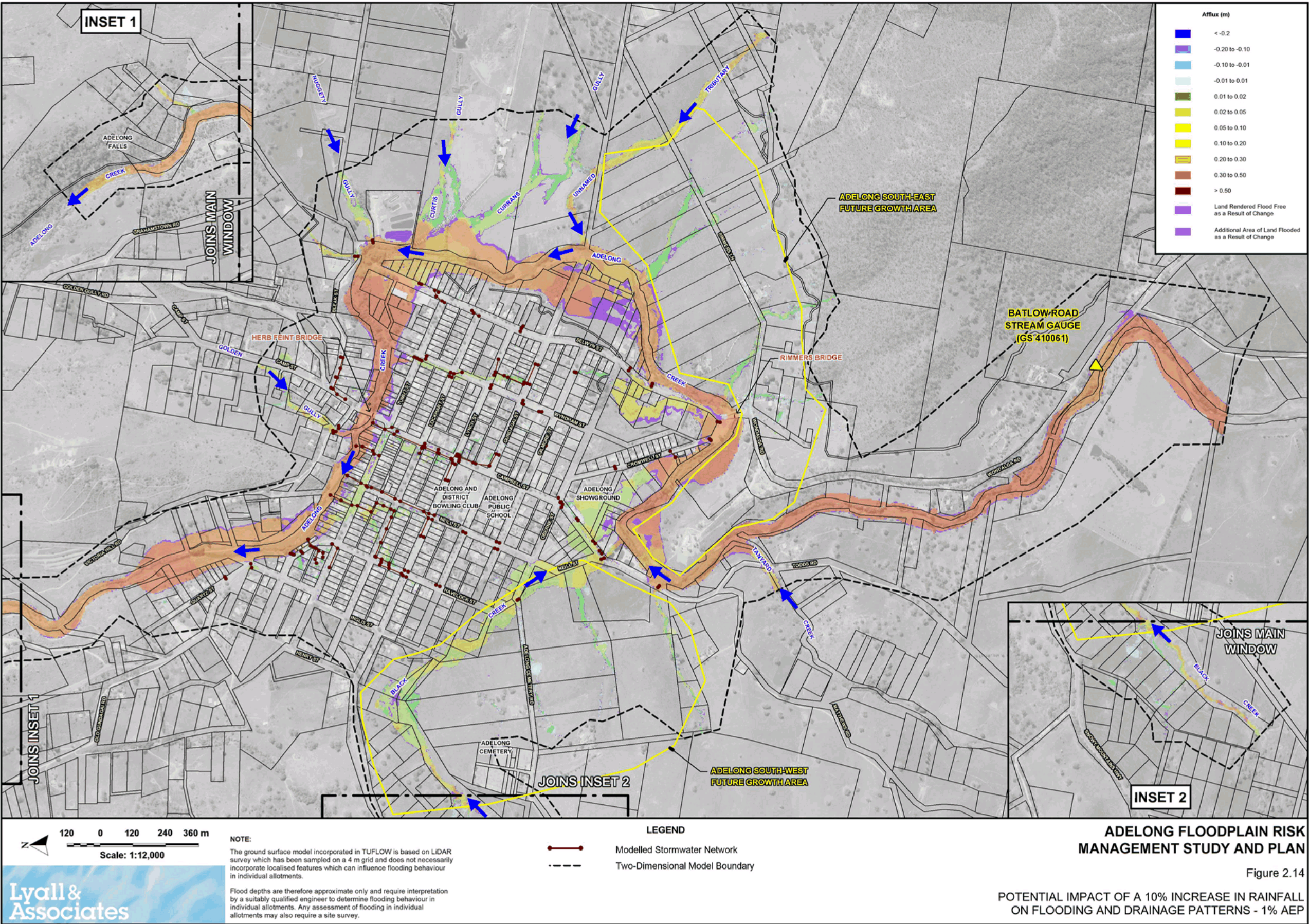




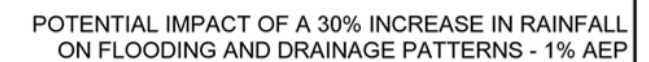


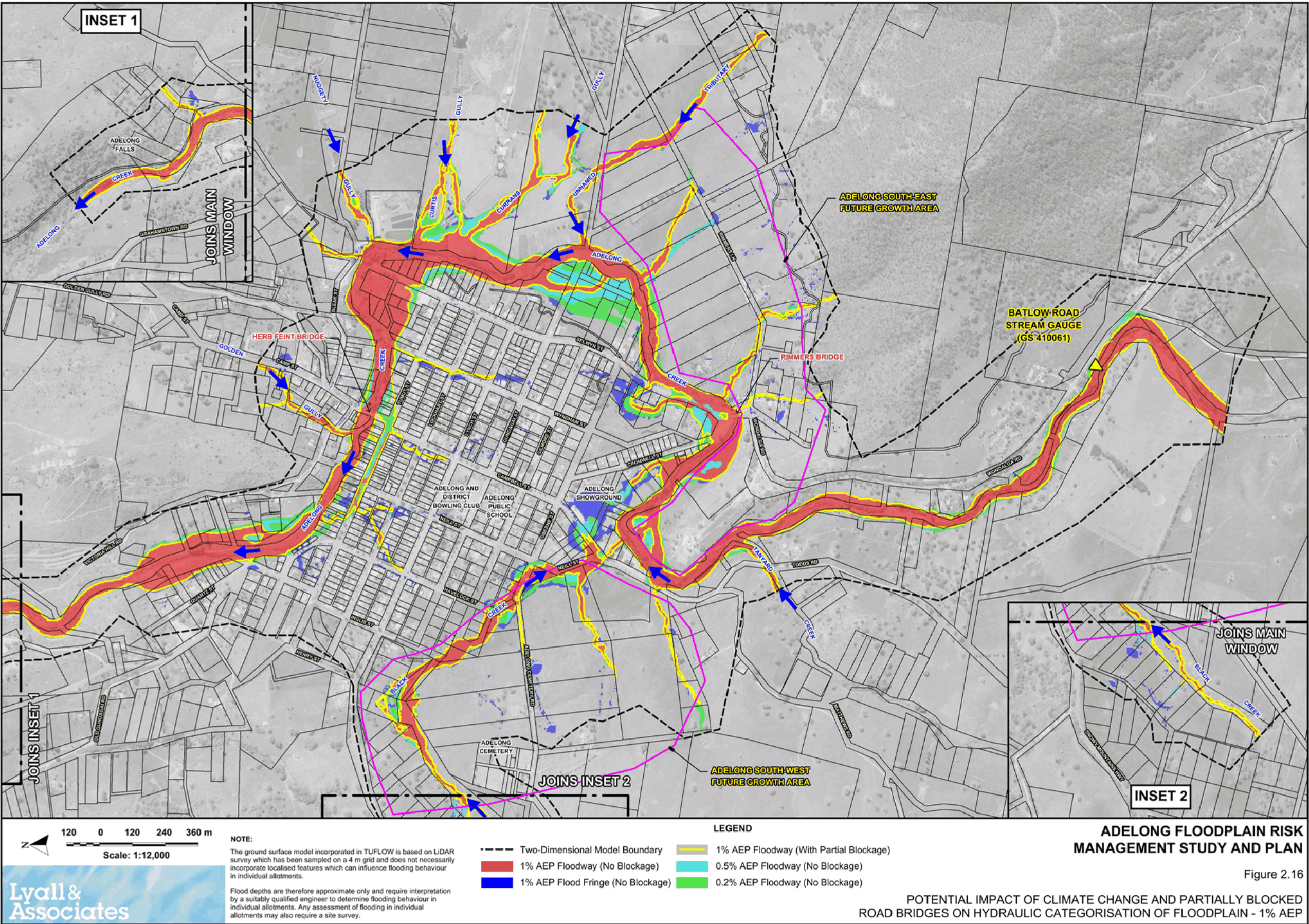


Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

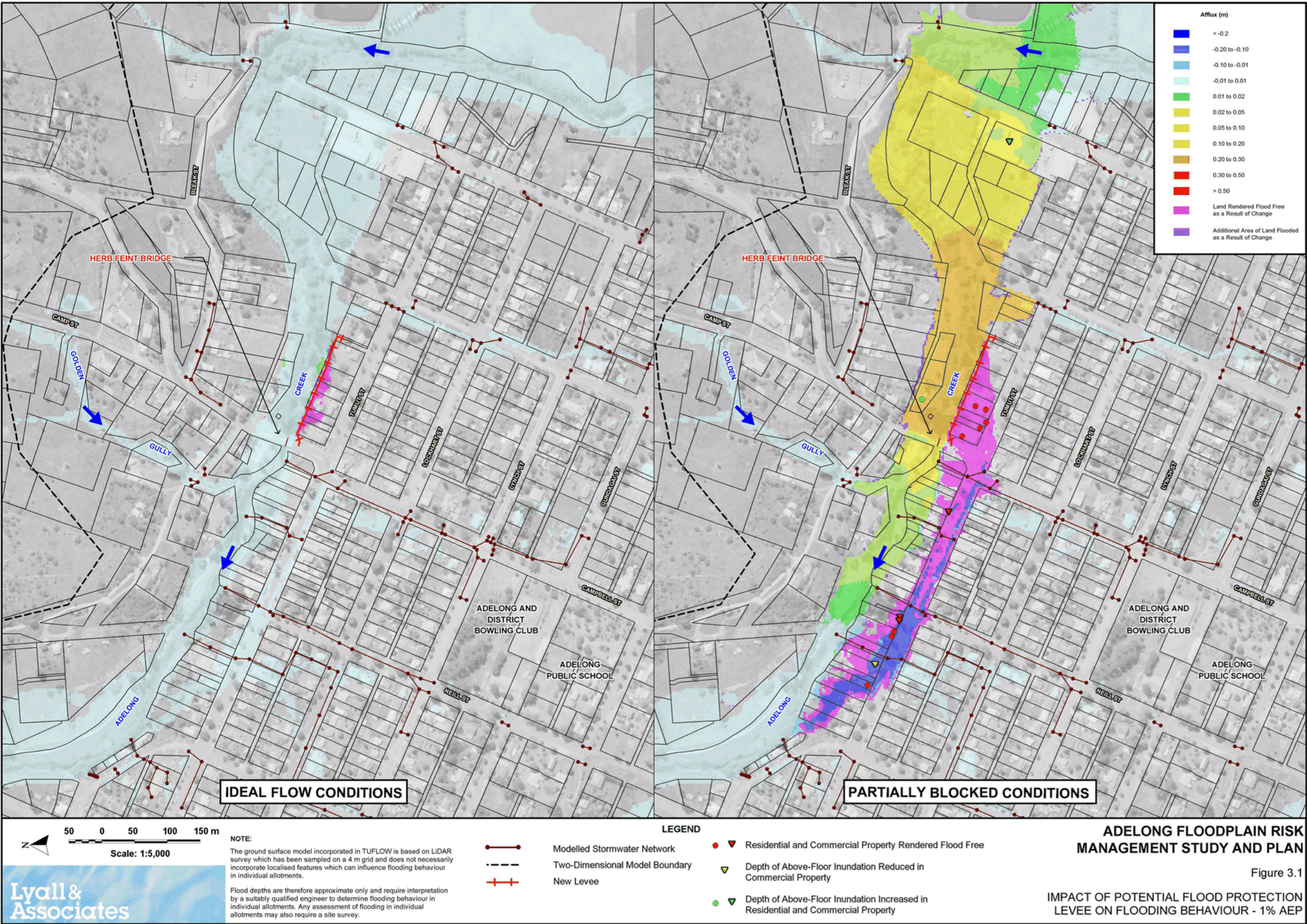


Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

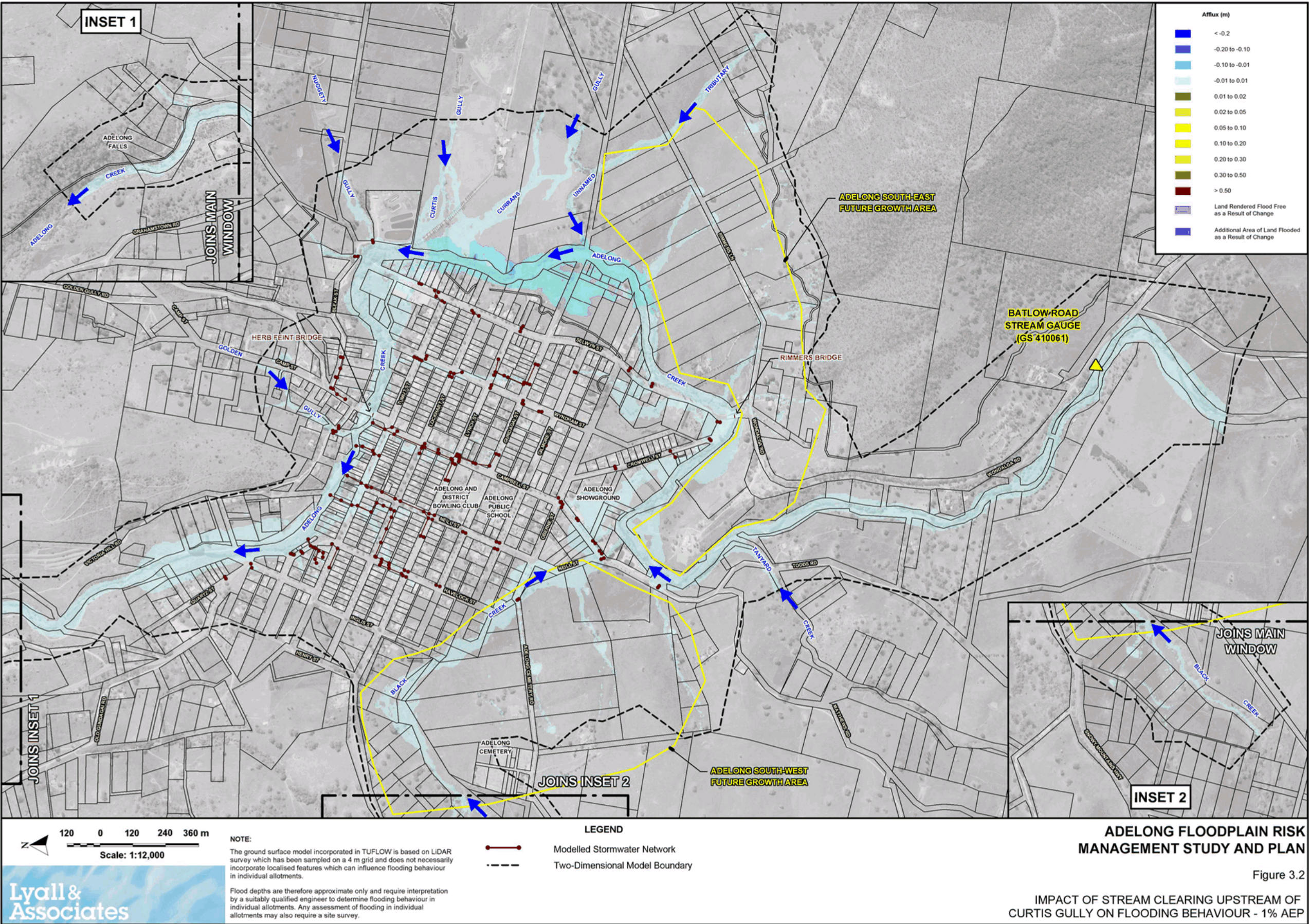


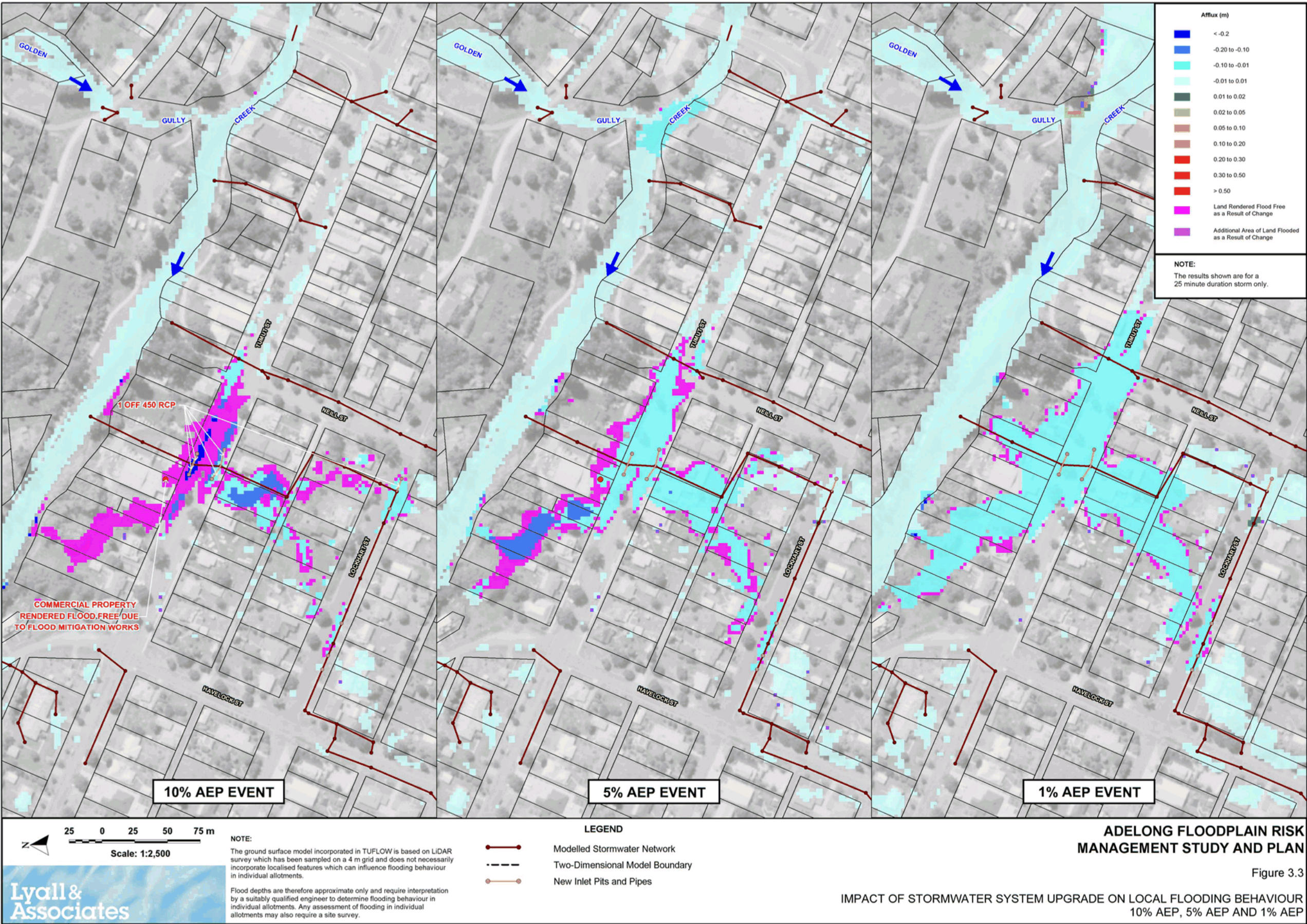


Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

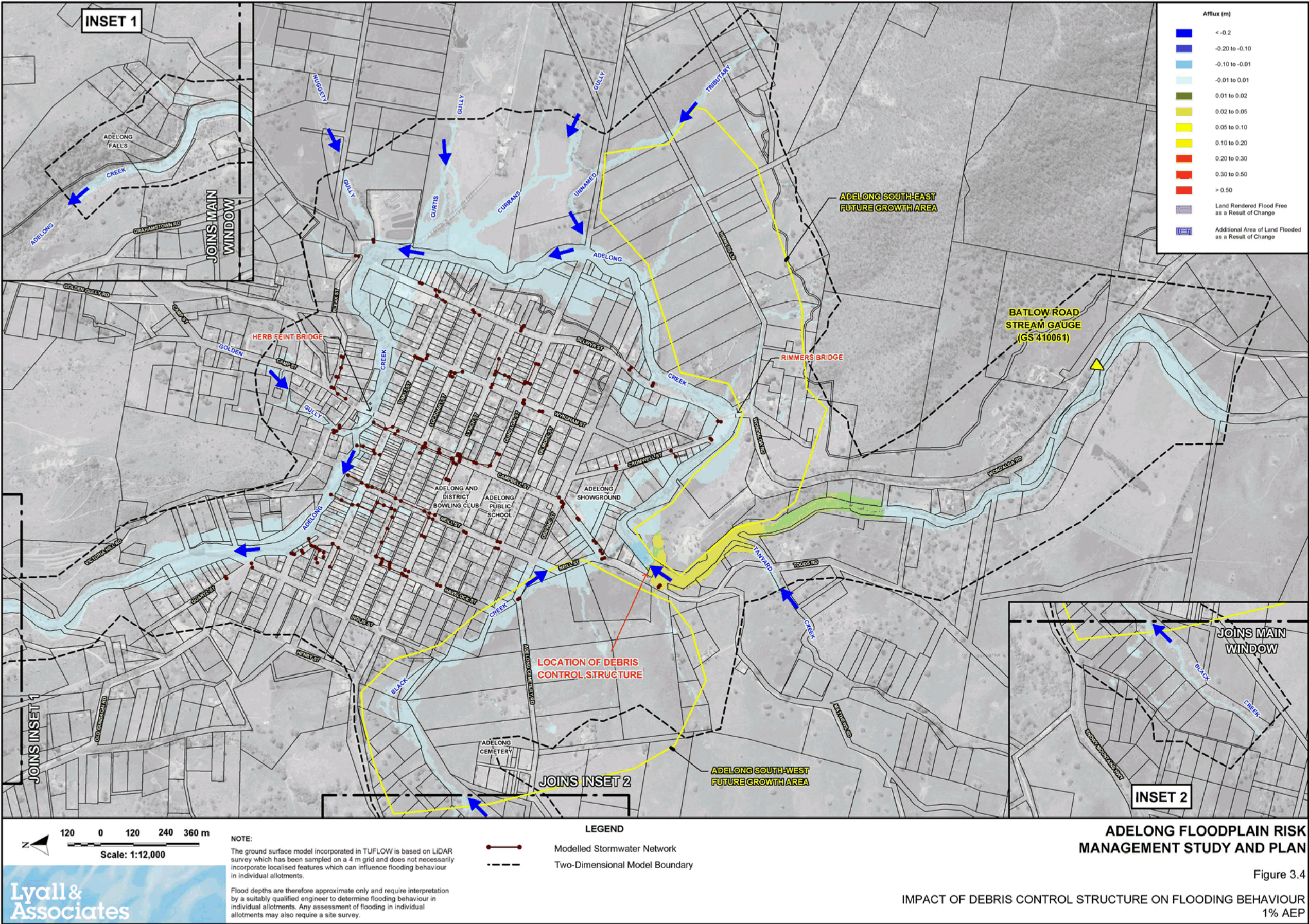


Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

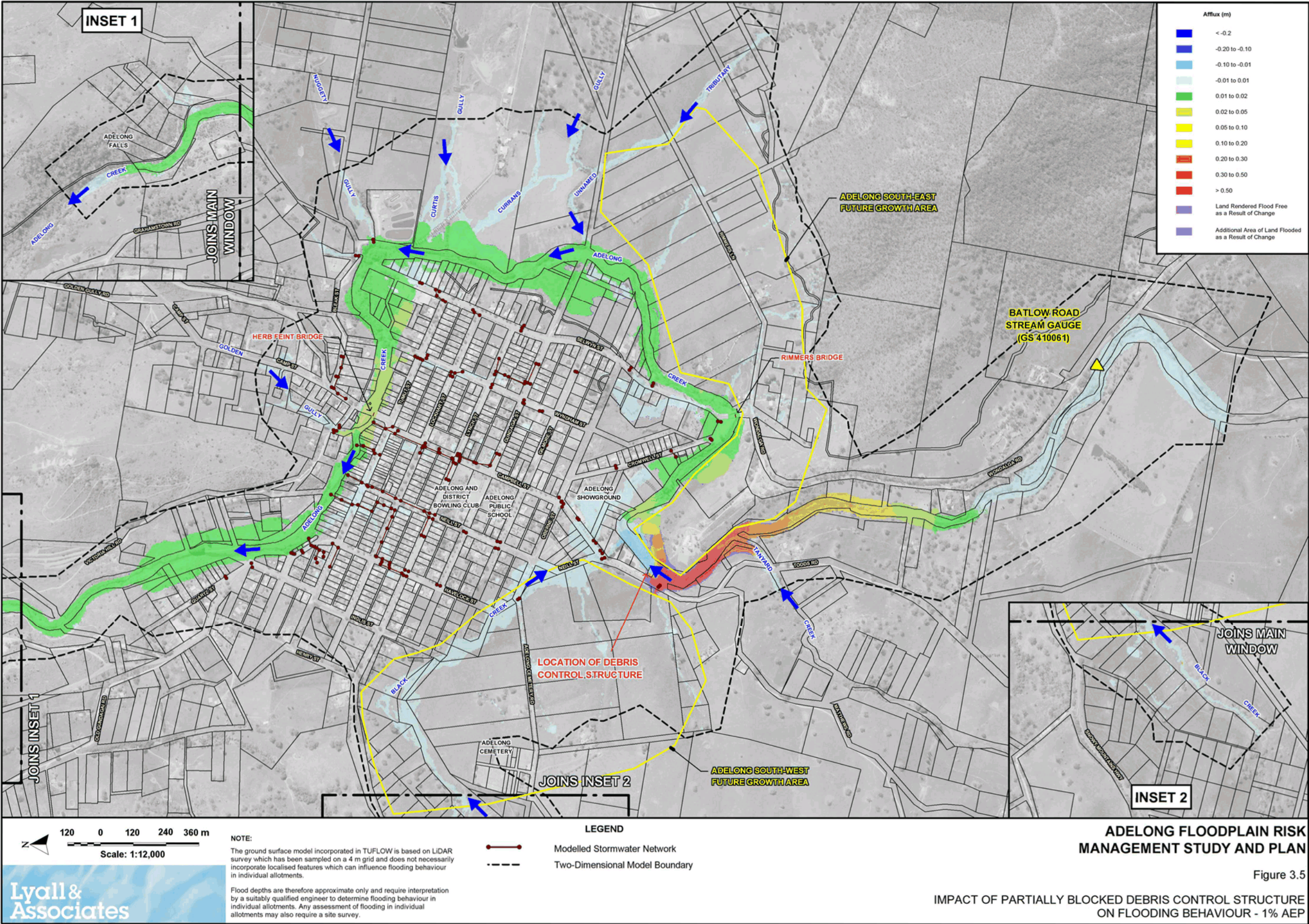




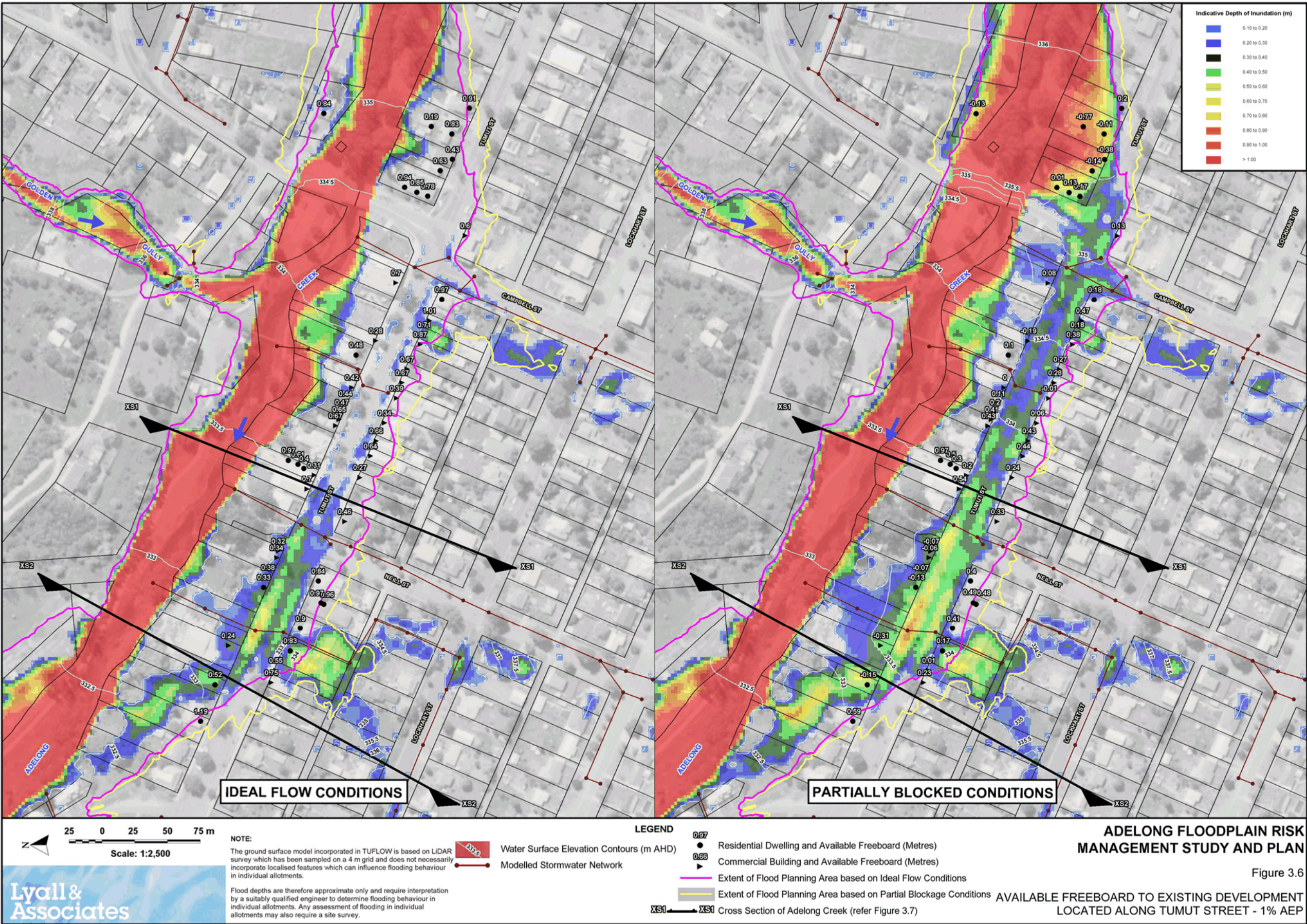
Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018



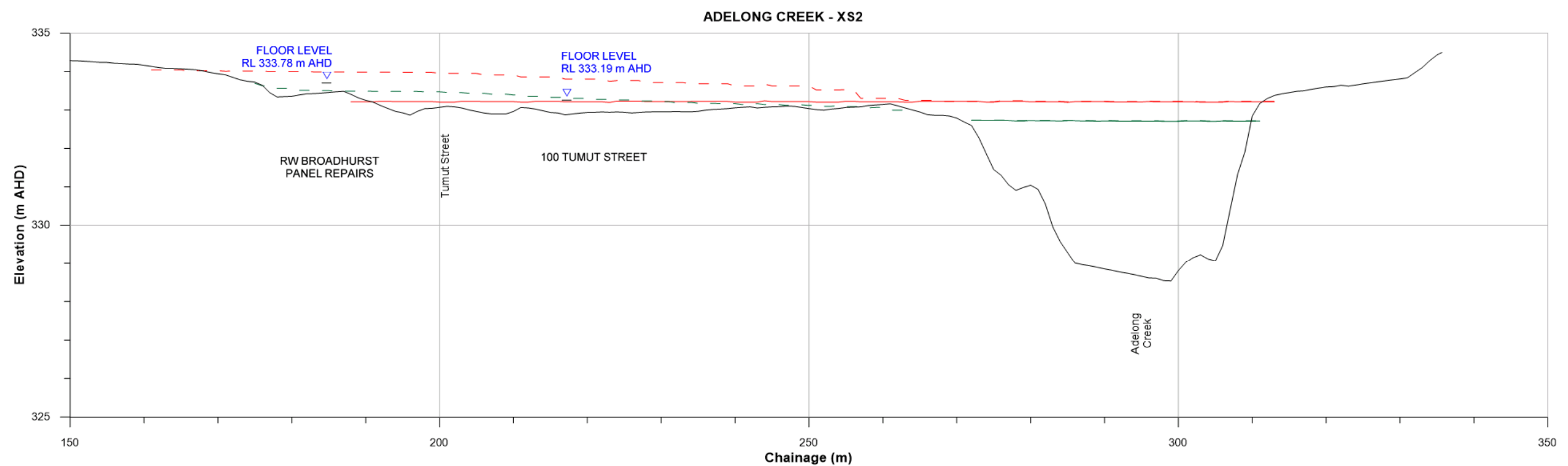
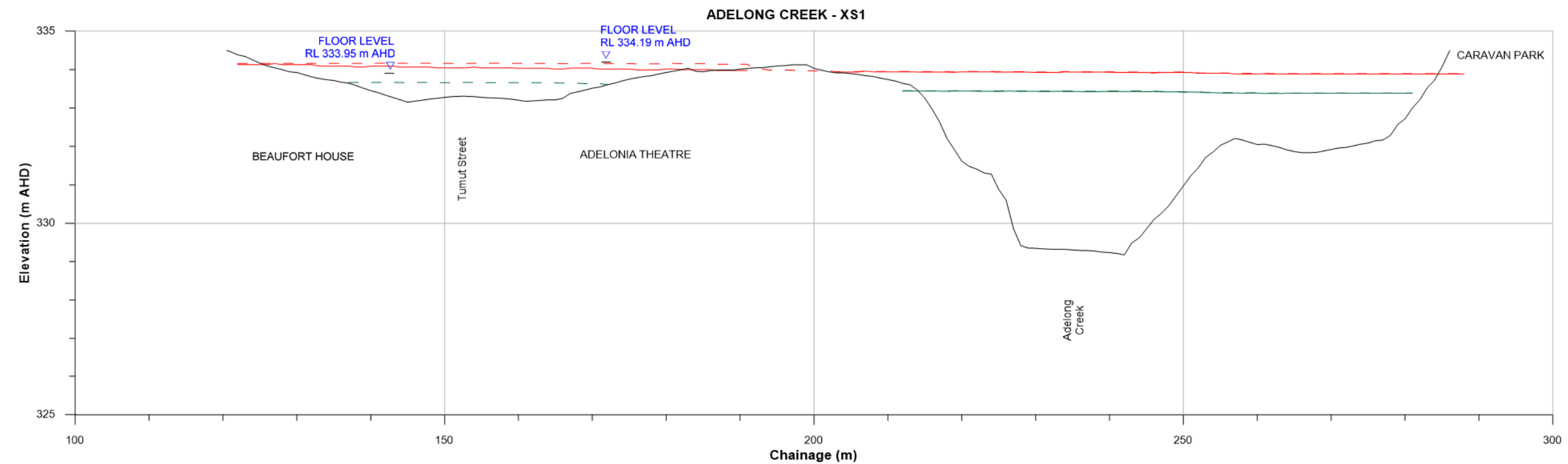
Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018



Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018



Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018



NOTE:

1. Cross sections drawn looking in the downstream direction.
2. Refer Figure 3.6 for location of cross sections.
3. Main Stream Flooding shown only.

LEGEND

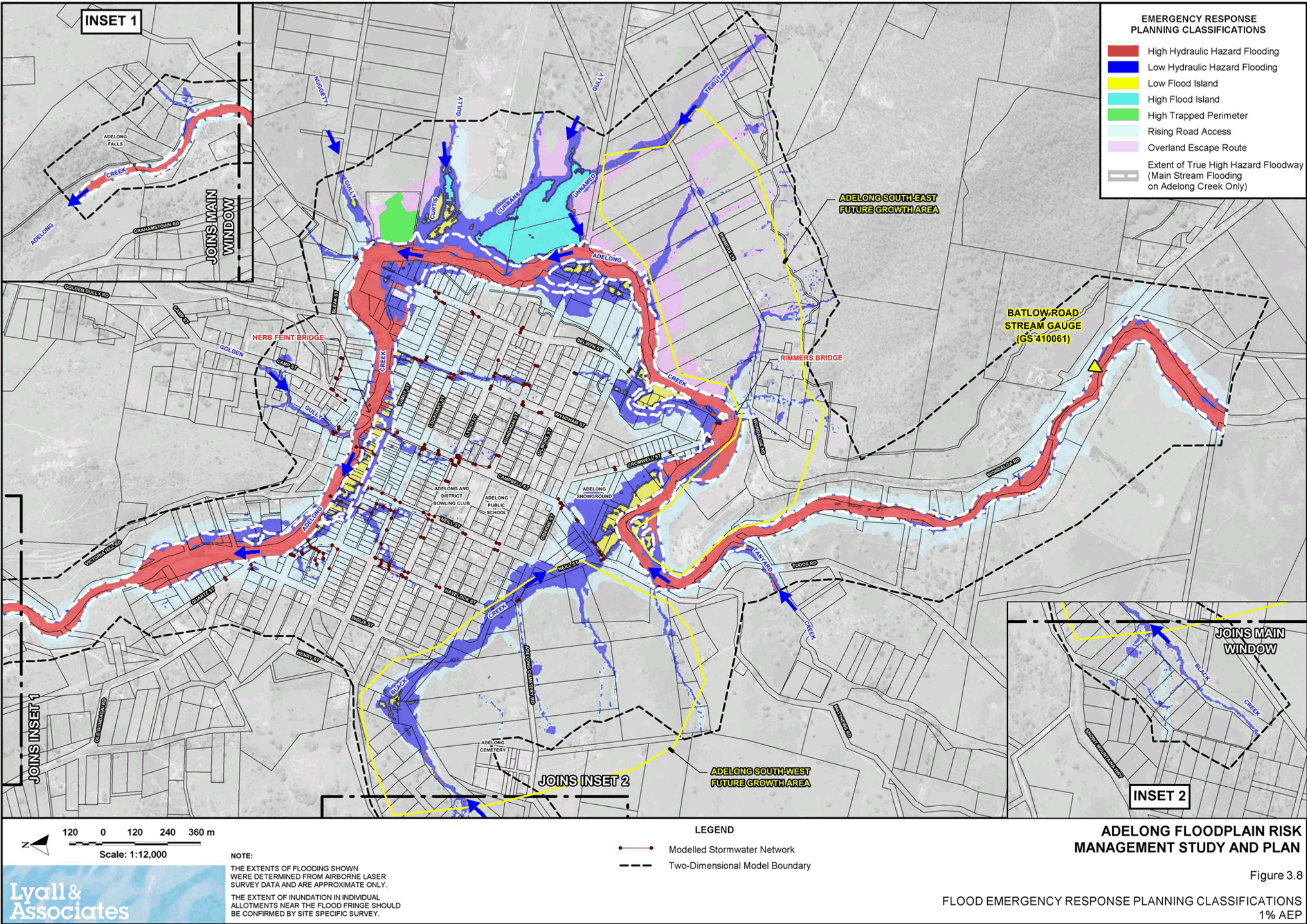
- 1% AEP (Ideal Flow Conditions)
- FPL (Ideal Flow Conditions)
- 1% AEP (Partially Blocked Conditions)
- FPL (Partially Blocked Conditions)
- Natural Surface

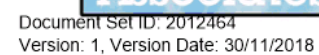
ADELONG FLOODPLAIN RISK MANAGEMENT STUDY AND PLAN

Figure 3.7

COMPARISON OF FLOOD PLANNING LEVELS
ALONG TUMUT STREET

Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018





APPENDIX B
FLOOD DAMAGES

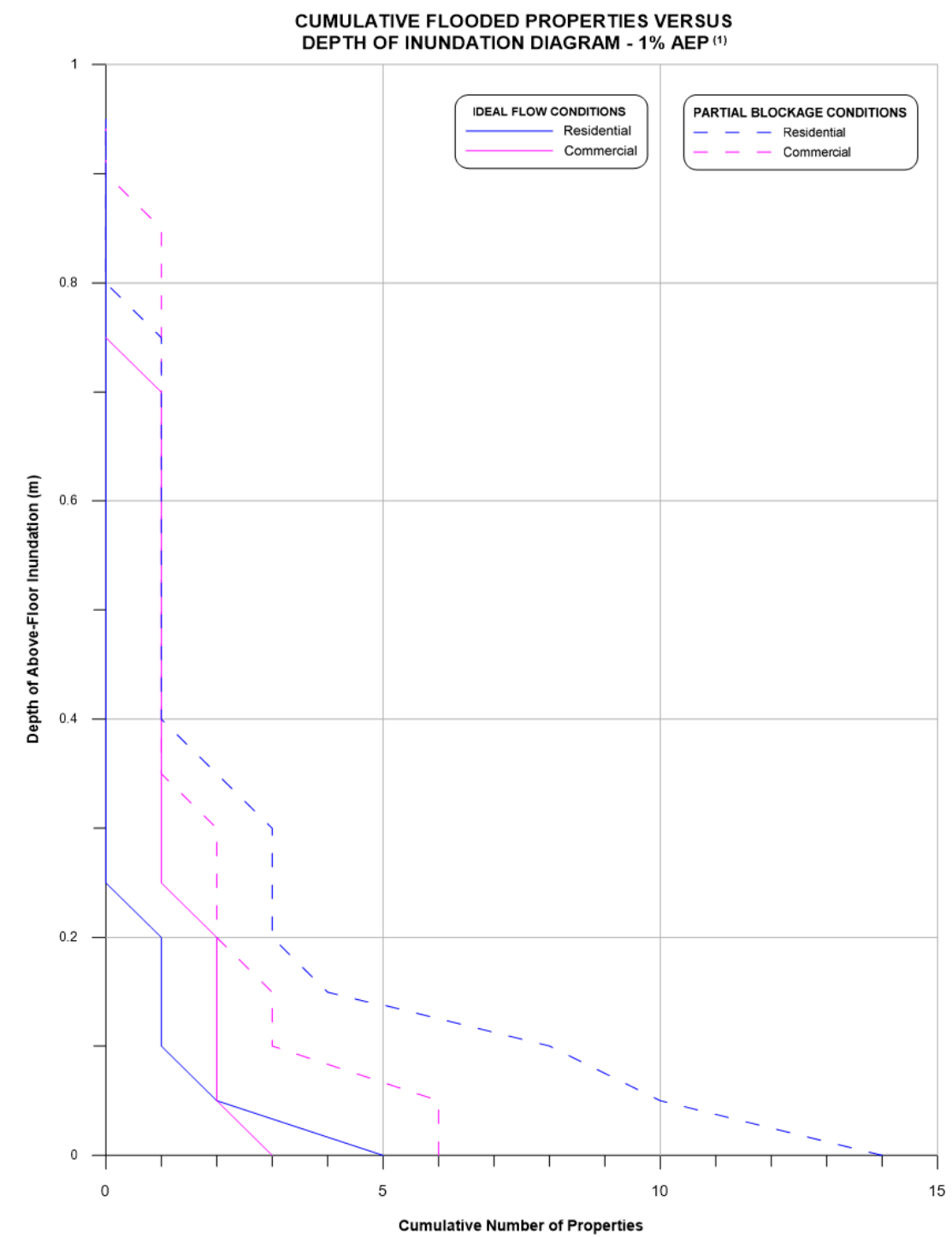
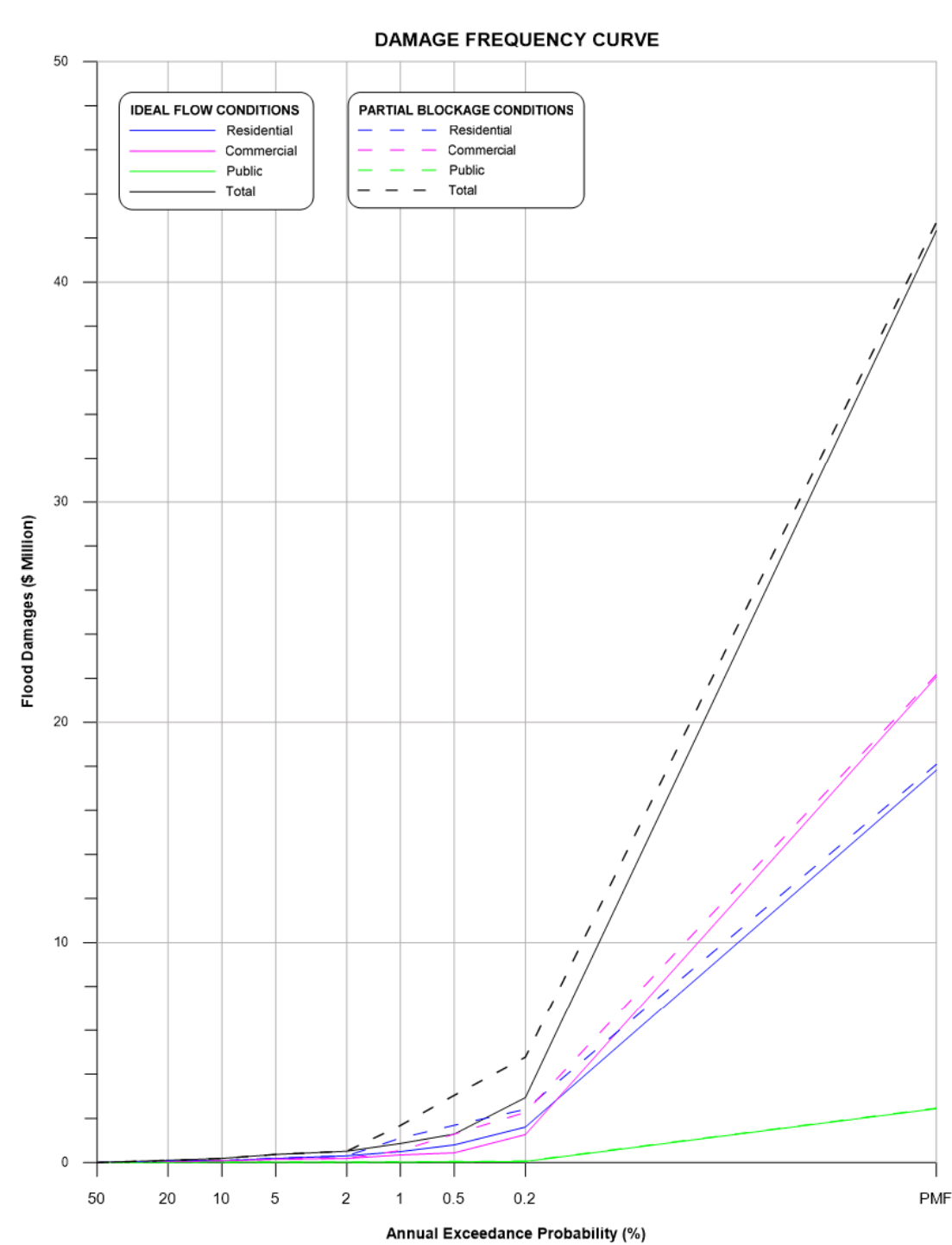
LIST OF FIGURES (APPENDIX B)

B8.1 Damage - Frequency Curves and Cumulative Flooded Properties versus Depth of Inundation Diagram - 1% AEP

AFRMS_V2_Figures_[Rev 1.2].docx
August 2018 Rev. 1.2

Lyall & Associates

Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018



NOTES:
1. No Public properties flooded above floor level in a 1% AEP design flood event.

**ADELONG FLOODPLAIN RISK
MANAGEMENT STUDY AND PLAN**

Figure B8.1

DAMAGE - FREQUENCY CURVES AND CUMULATIVE FLOODED PROPERTIES VERSUS DEPTH OF INUNDATION DIAGRAM - 1% AEP

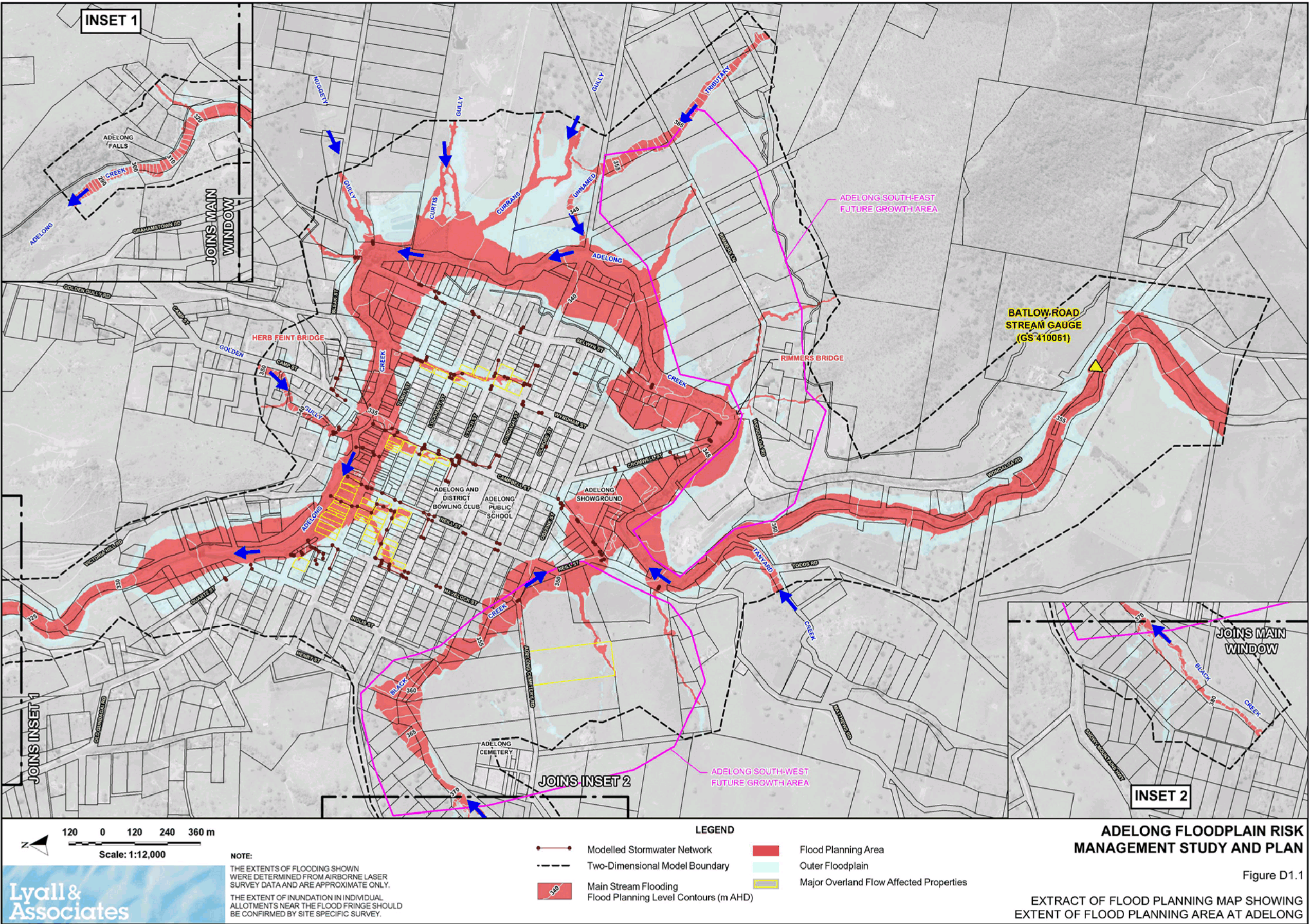
Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

APPENDIX D

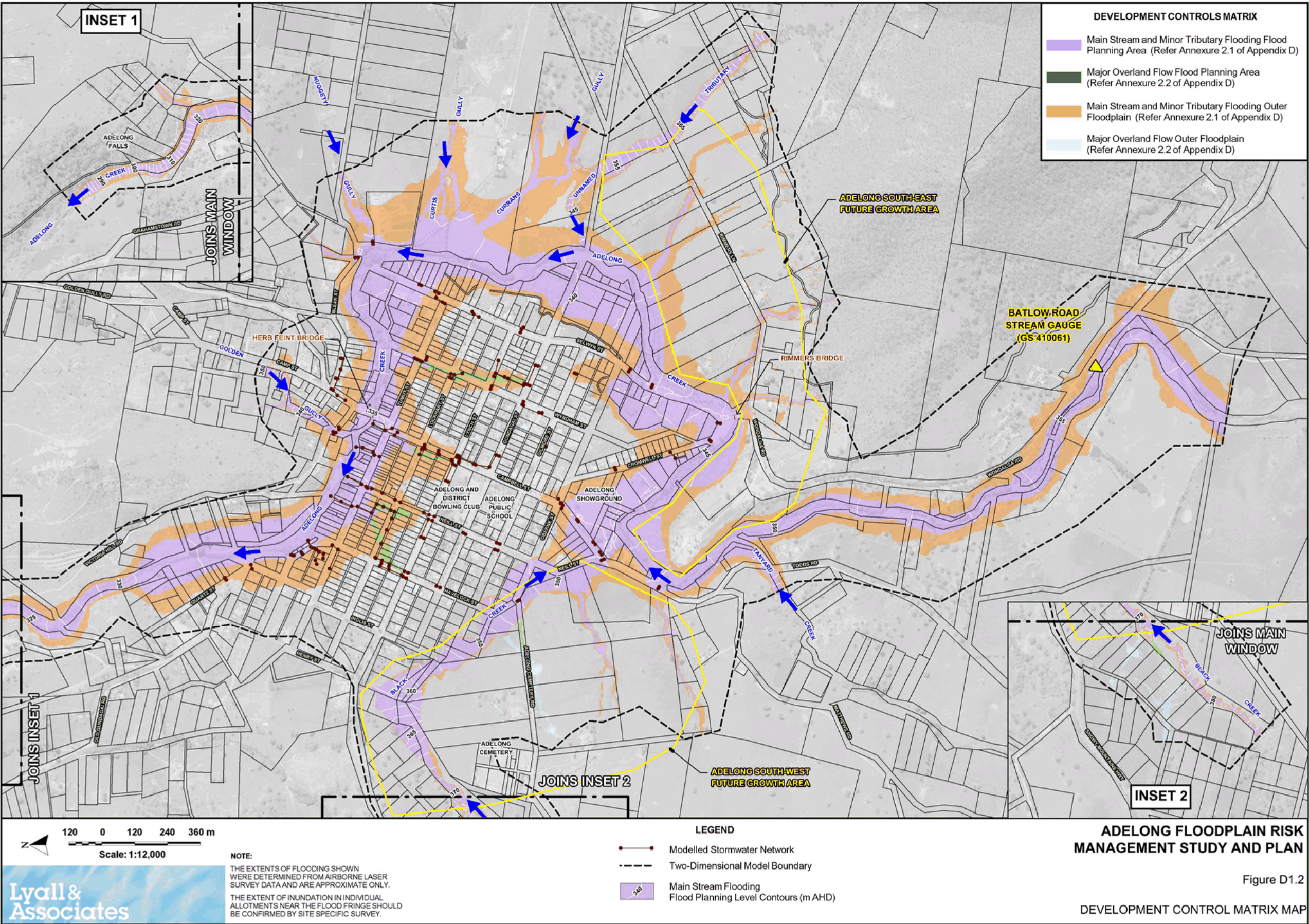
DRAFT FLOOD POLICY

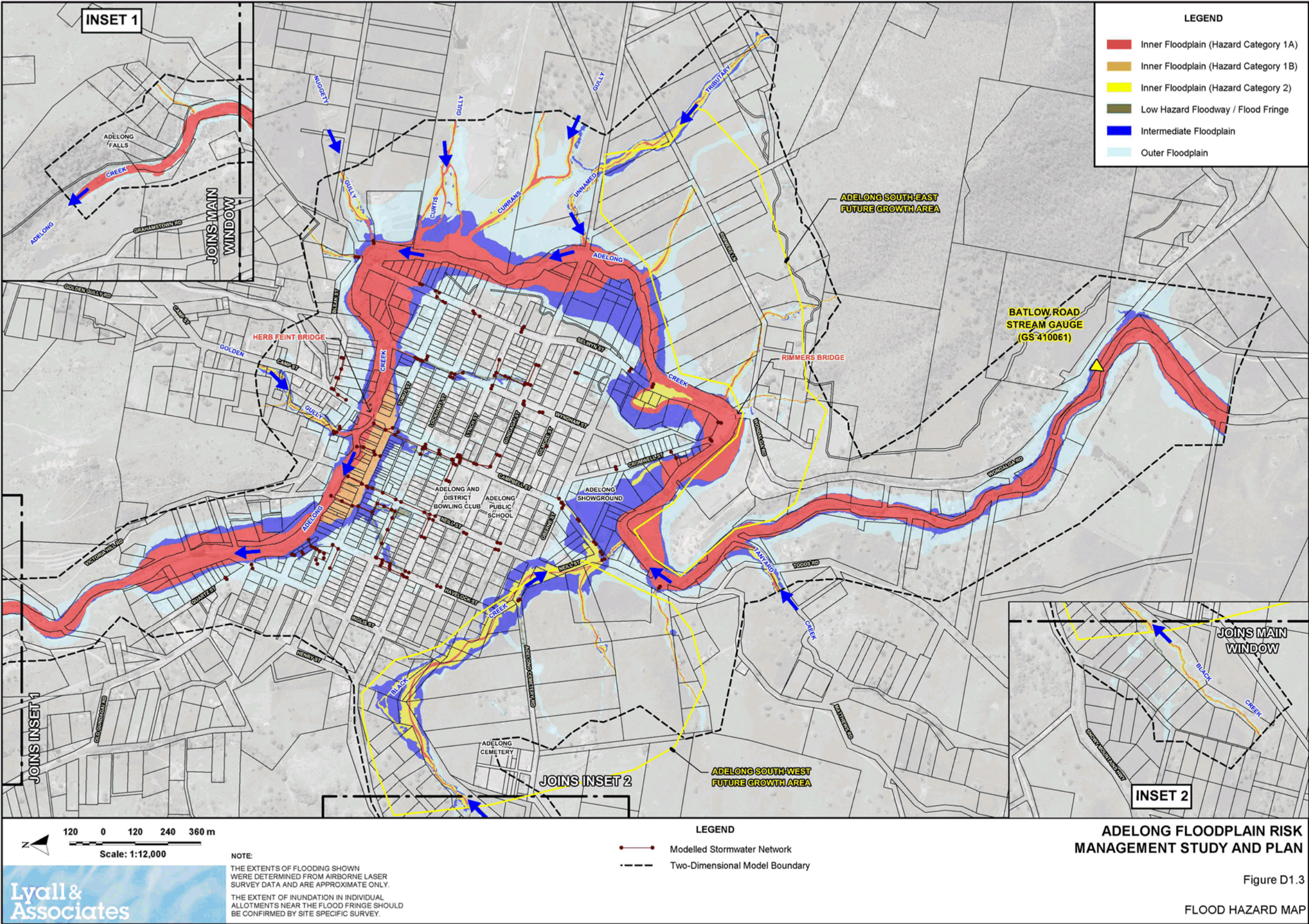
LIST OF FIGURES (APPENDIX D)

- D1.1 Extract of Flood Planning Map Showing Extent of Flood Planning Area at Adelong
- D1.2 Development Controls Matrix Map
- D1.3 Flood Hazard Map



Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018





Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

APPENDIX E

ADDITIONAL FLOOD MAPPING

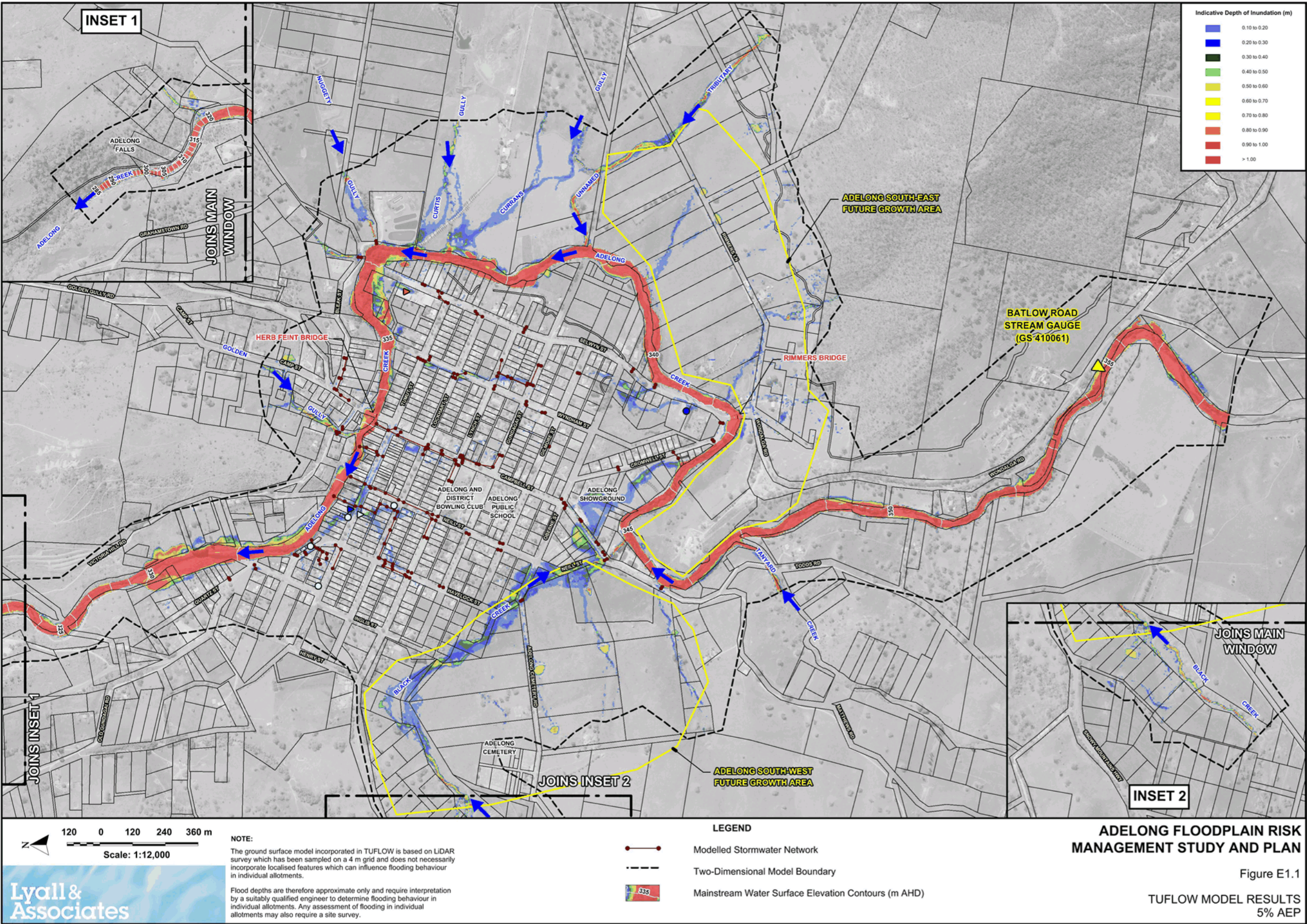
AFRMS_V2_Figures_[Rev 1.2].docx
August 2018 Rev. 1.2

Lyall & Associates

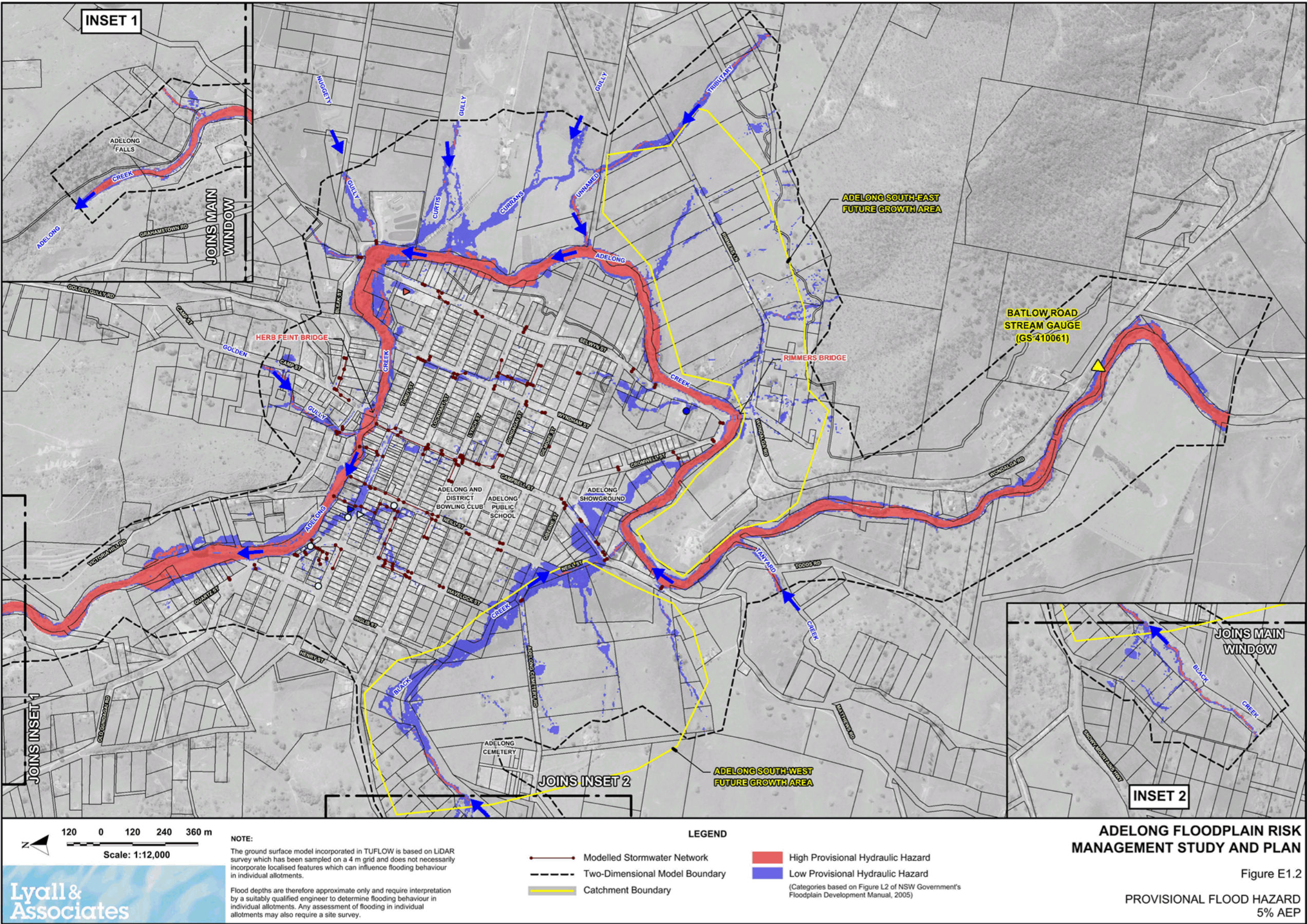
Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018

LIST OF FIGURES (APPENDIX E)

- E1.1 TUFLOW Model Results – 5% AEP
- E1.2 Provisional Flood Hazard – 5% AEP



Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018



Document Set ID: 2012464
Version: 1, Version Date: 30/11/2018