



# Main City and North Wagga Levee Upgrade Project



**Oura  
Community Information Session**



Welcome



# Presentation outline

What is the levee upgrade project?

What work has happened to date?

Where are we now?

Questions

How will the proposed upgrade impact on me?

Questions

How do I review the documents?

Questions

How can I share my views?

How can I get further information about my property?

Questions



**Brad Jeffrey**

**Levee Upgrade Project Manager**



# What is the levee upgrade project?

- Increasing the height of the Main City Levee to provide protection against a 1 in 100 year river height
  - Currently 1 in 60
- Increasing the height of the North Wagga Levee to provide protection against a 1 in 20 year river height
  - Currently 1 in 17



# Flood heights and history

Occurance	Year	Height	
1 in 100 Yr	-	11.30m	
1 in 60 Yr	1974	10.75m	
1 in 40 Yr	2012	10.56m	
1 in 17 Yr	2010	9.70m	
1 in 10 Yr	1956	9.58m	Major Flood Above 9.6m
1 in 8 Yr	1976	9.40m	
1 in 5 Yr	1978	8.92m	Moderate Flood Above 9.0m
1 in 4 Yr	1993	8.80m	Minor Flood Above 7.3m

No Change



# History of the Levees

## North Wagga Levees

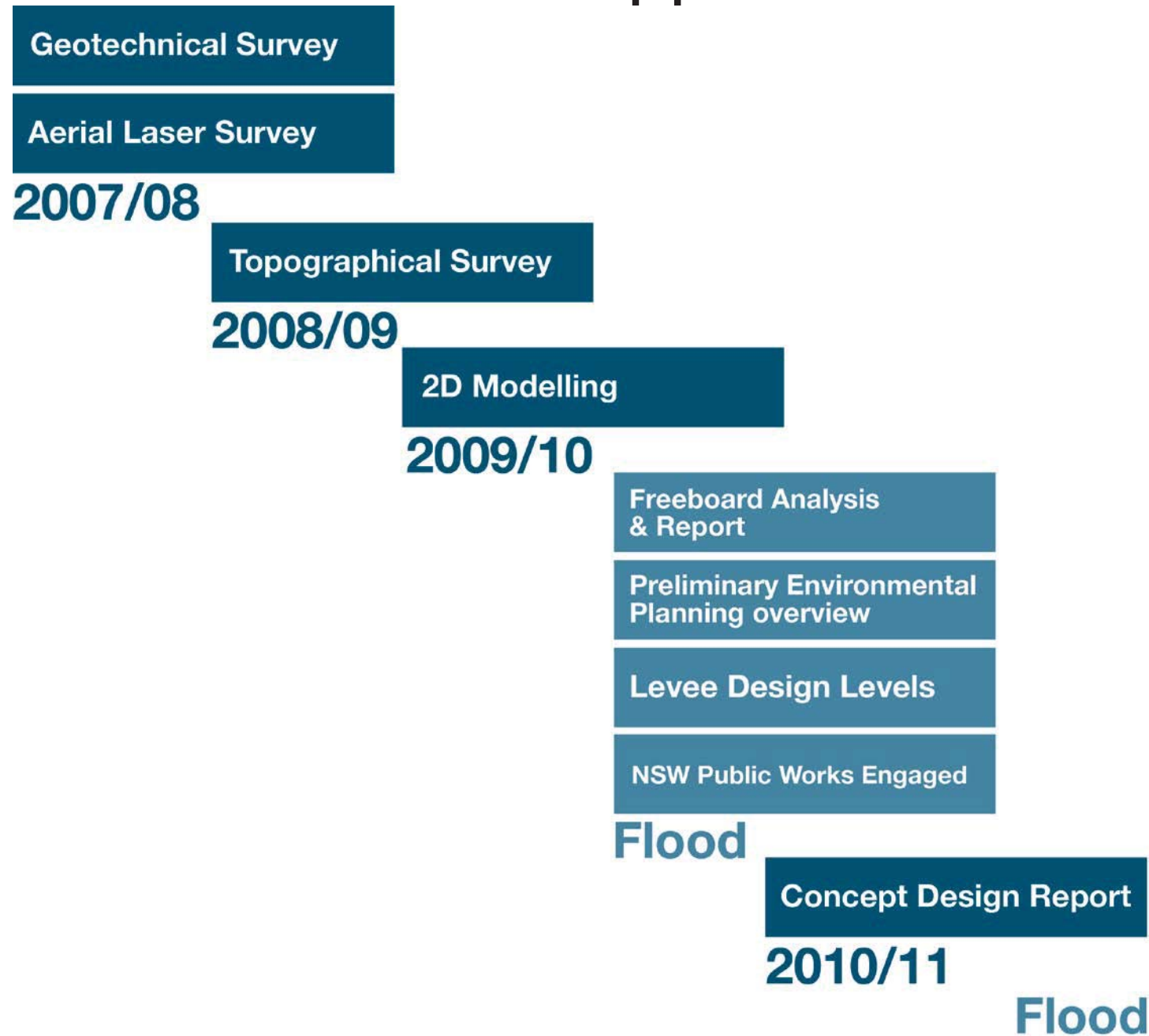
- Temporary levees built since 1930's
- Levee formalized in 1990 to what was then thought to be a 1 in 20 yr level of protection

## Main City Levee

- Following the 1956 floods, planning started
- Levee constructed in 1960
- Levee height increased following 1974 flood



# What work has happened to date?





# What work will follow this?

## Now - March 2013

Review of Environmental Factors

Community Engagement

## March 2013 - March 2014

Detailed Design

## 2014 - ongoing

Construction

Ongoing lobbying to the State & Federal Governments  
and grant applications to existing programs



# Project Funding

The estimate for the upgrade of the levees, based upon the concept designs is **\$18.8M**.

**Main City Levee = \$11.3 Million**

**North Wagga Levees = \$7.5 Million**

This estimate will be refined as part of the detailed design process.



# QUESTIONS

- What is the levee upgrade project?
- What work has happened to date?
- Where are we now?
- Environmental factors





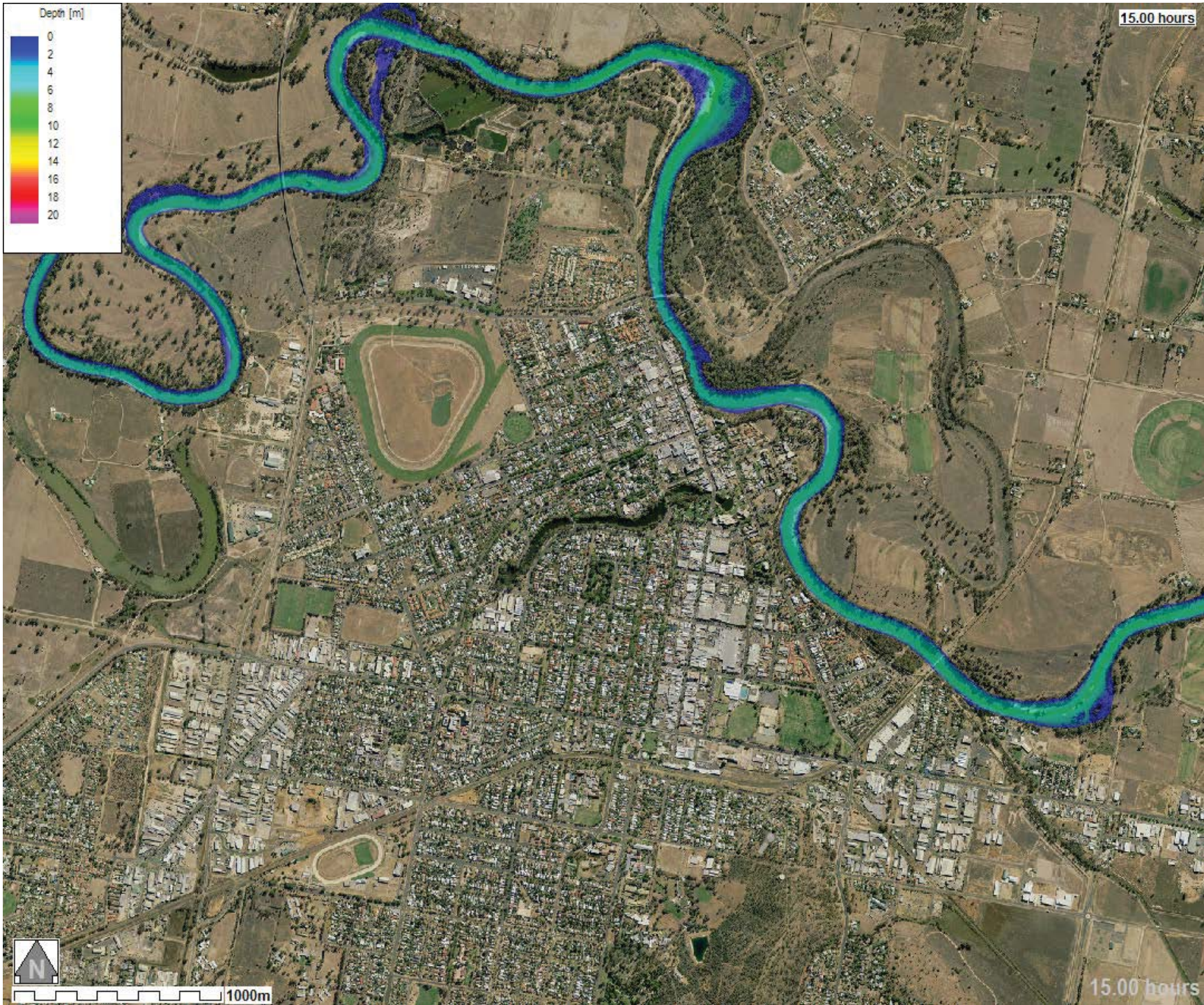
WAGGA WAGGA CITY COUNCIL  
MURRUMBIDGEE RIVER MODEL CONVERSION PROJECT  
FINAL REPORT



SEPTEMBER 2010

# What is Flood Modelling?





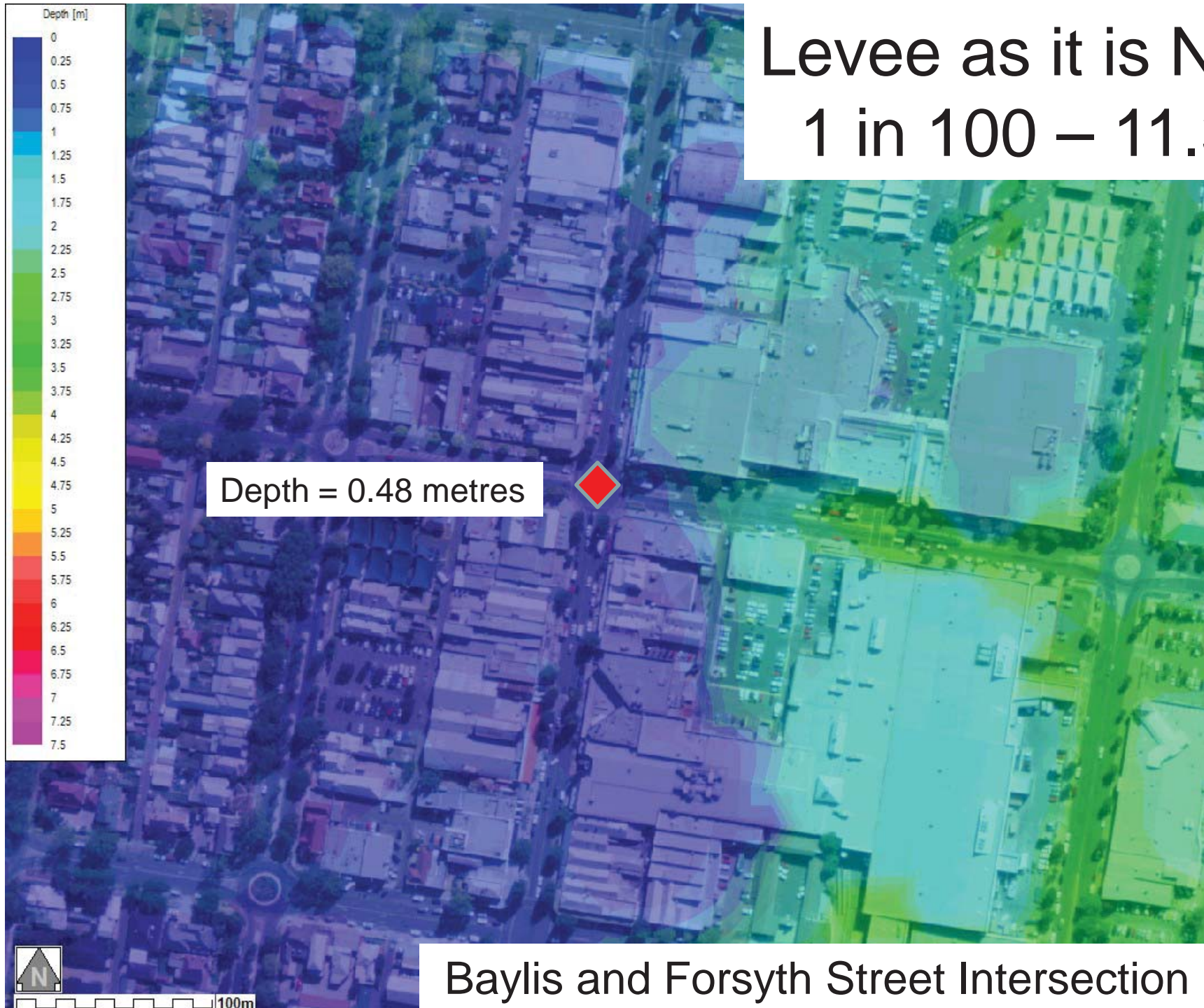
# Levee as it is NOW 1 in 100 – 11.3m



# Levee as it is NOW 1 in 100 – 11.3m

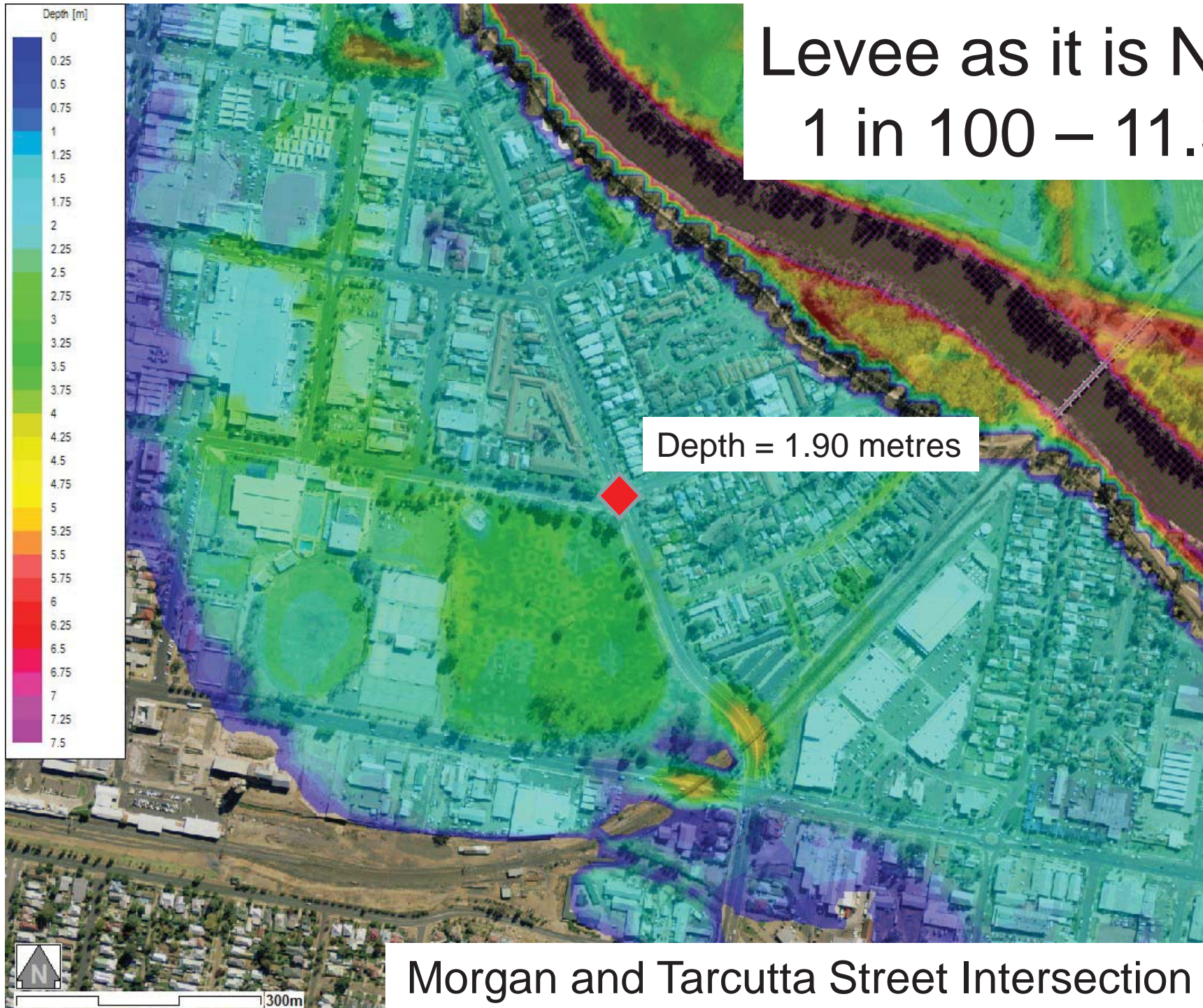


# Levee as it is NOW 1 in 100 – 11.3m





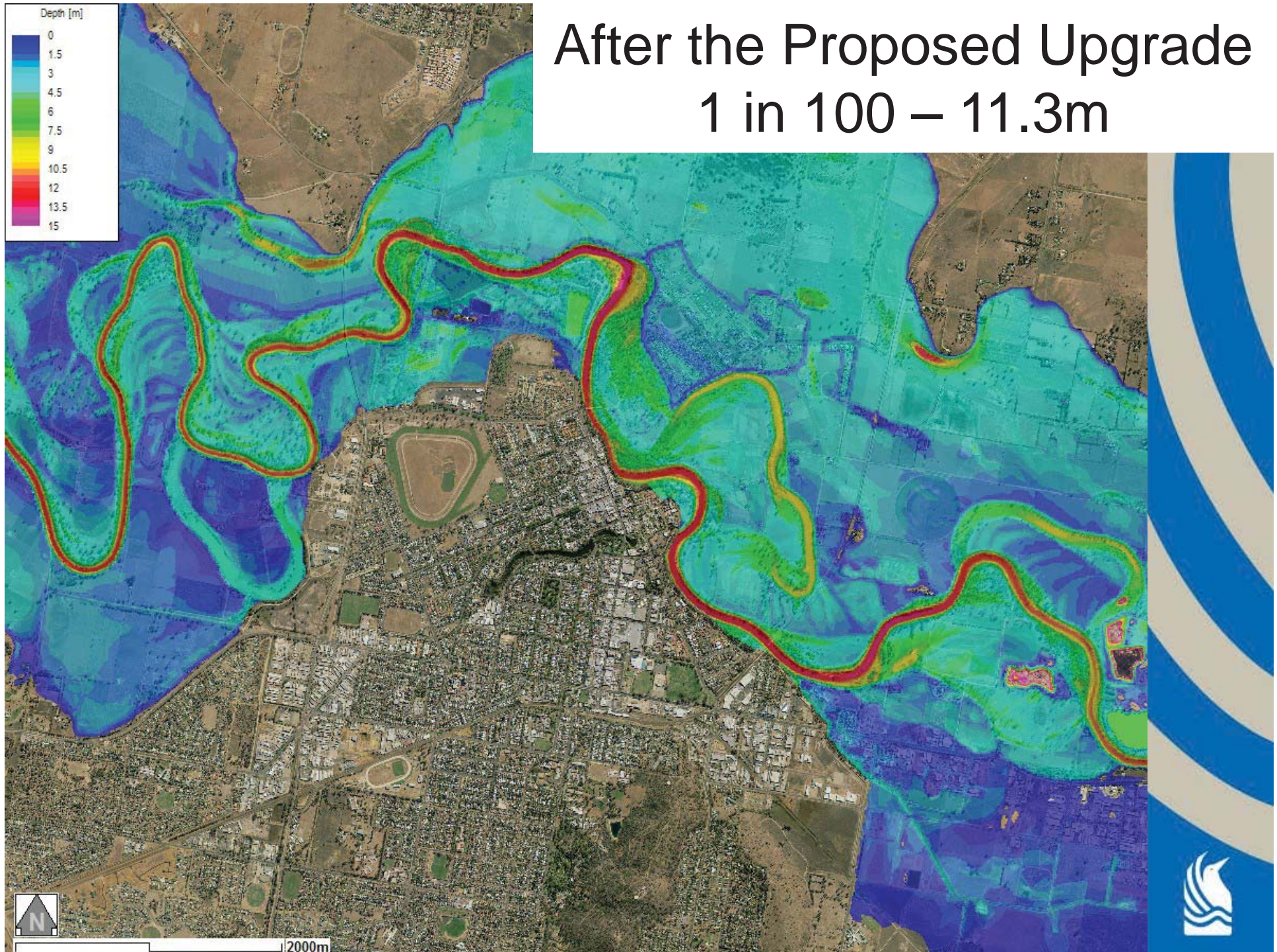
# Levee as it is NOW 1 in 100 – 11.3m

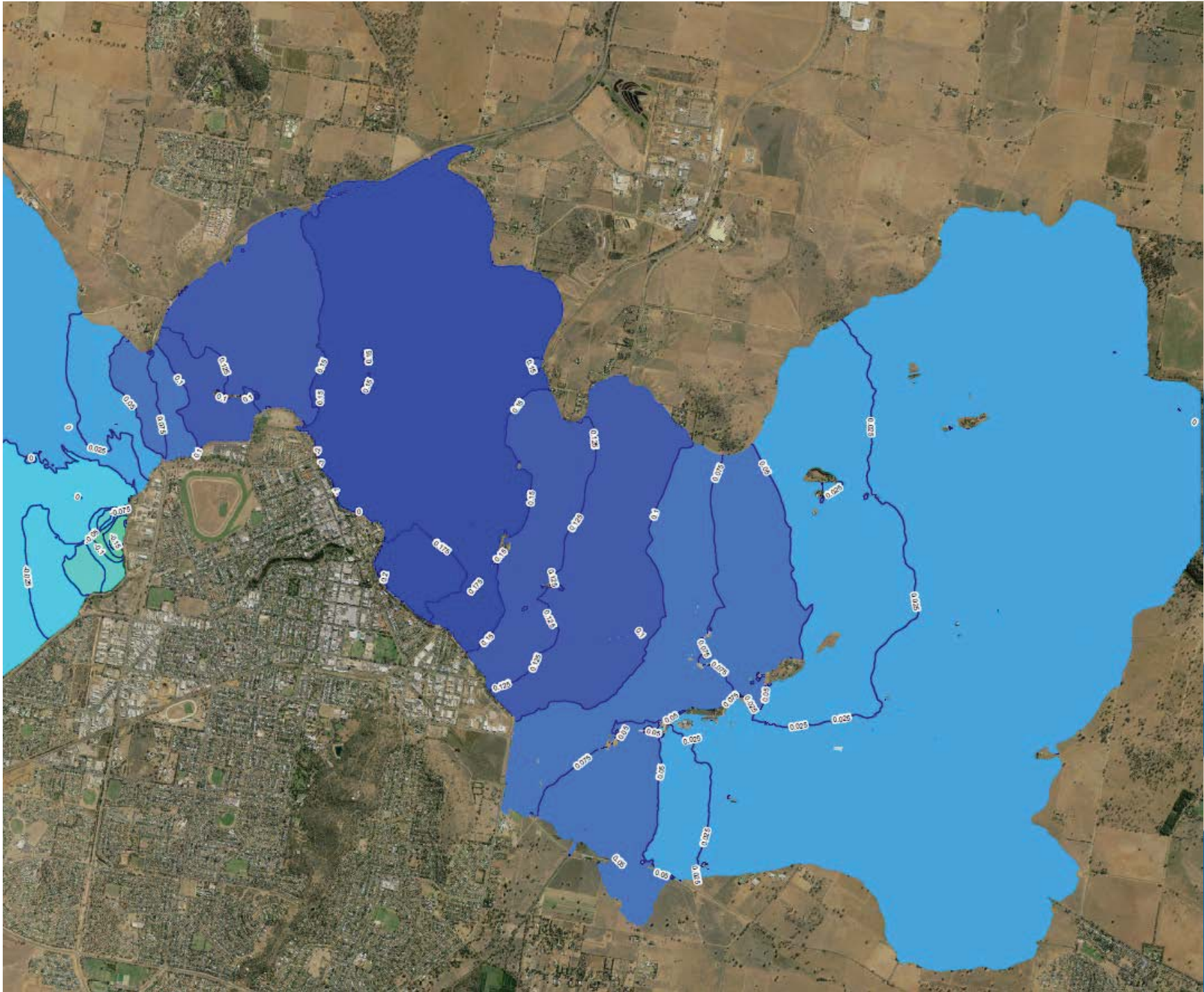


What impact will an upgraded levee have on the floodplain?

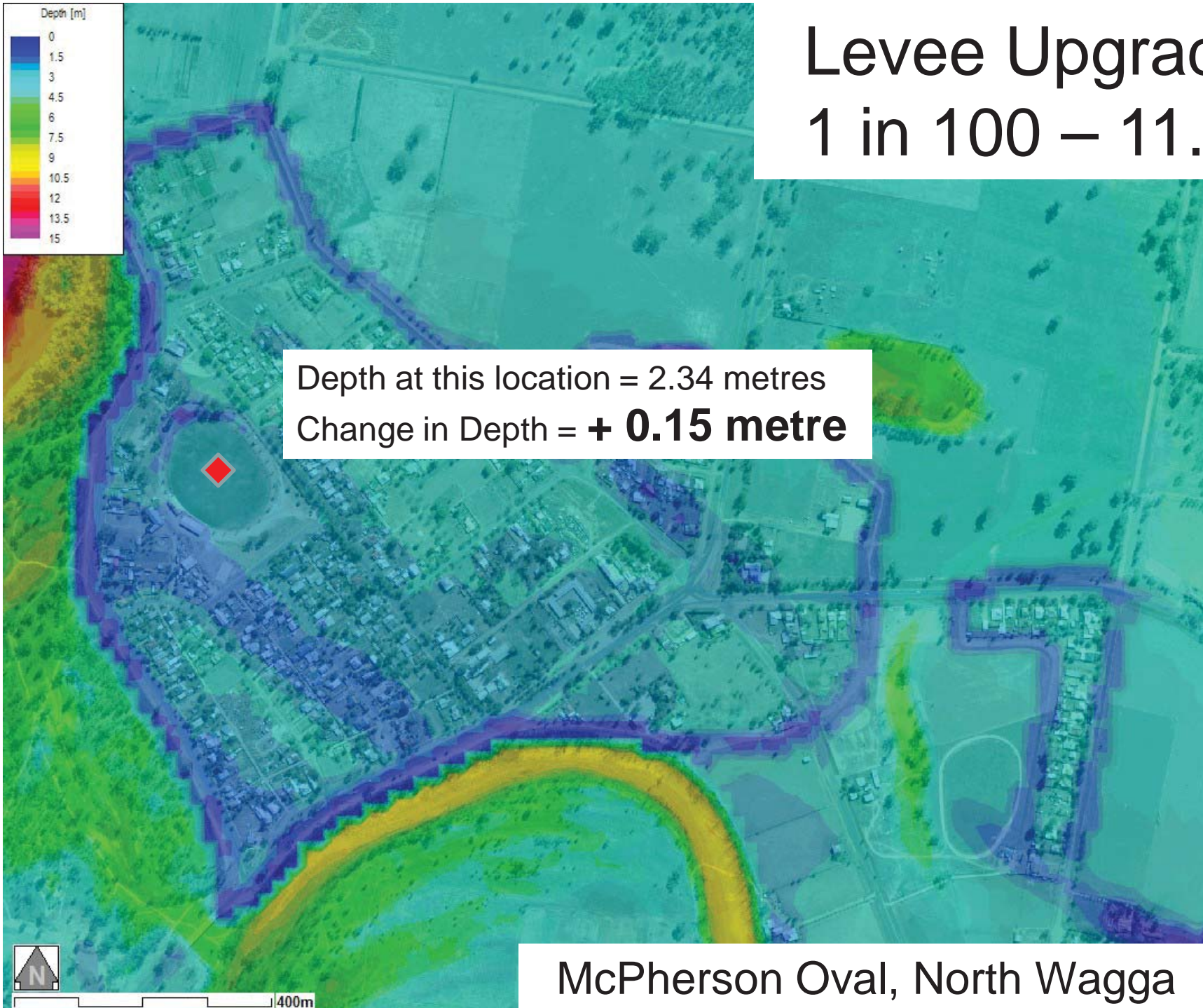


# After the Proposed Upgrade 1 in 100 – 11.3m





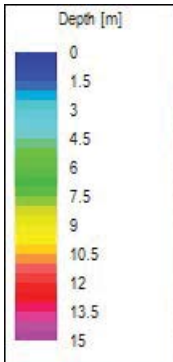
# Levee Upgraded 1 in 100 – 11.3m



McPherson Oval, North Wagga



# Levee Upgraded 1 in 100 – 11.3m



Depth at this location = 1.23 metres  
Change in Depth = **+ 0.12 metre**

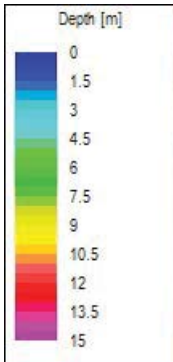
Hammond Avenue

Koorungal Road

Koorungal Rd and Hammond Ave Intersection, East Wagga



# Levee Upgraded 1 in 100 – 11.3m



Graham Avenue

Gumly Road



Depth at this location = 1.75 metres  
Change in Depth = **+ 0.02 metre**

Gumly Road and Graham Avenue Intersection, Gumly Gumly

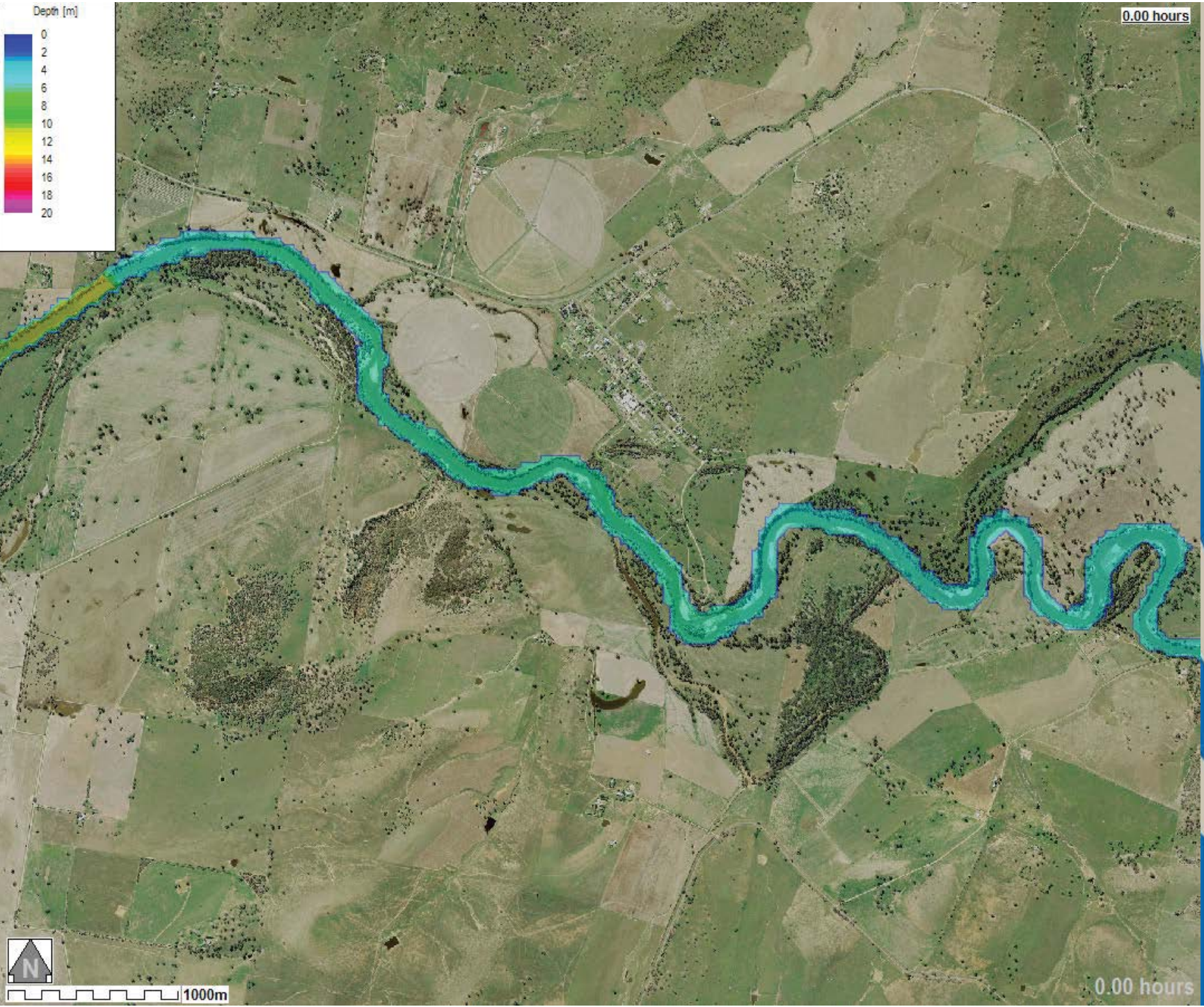
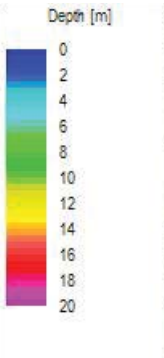


What will a 1 in 100  
look like at Oura?



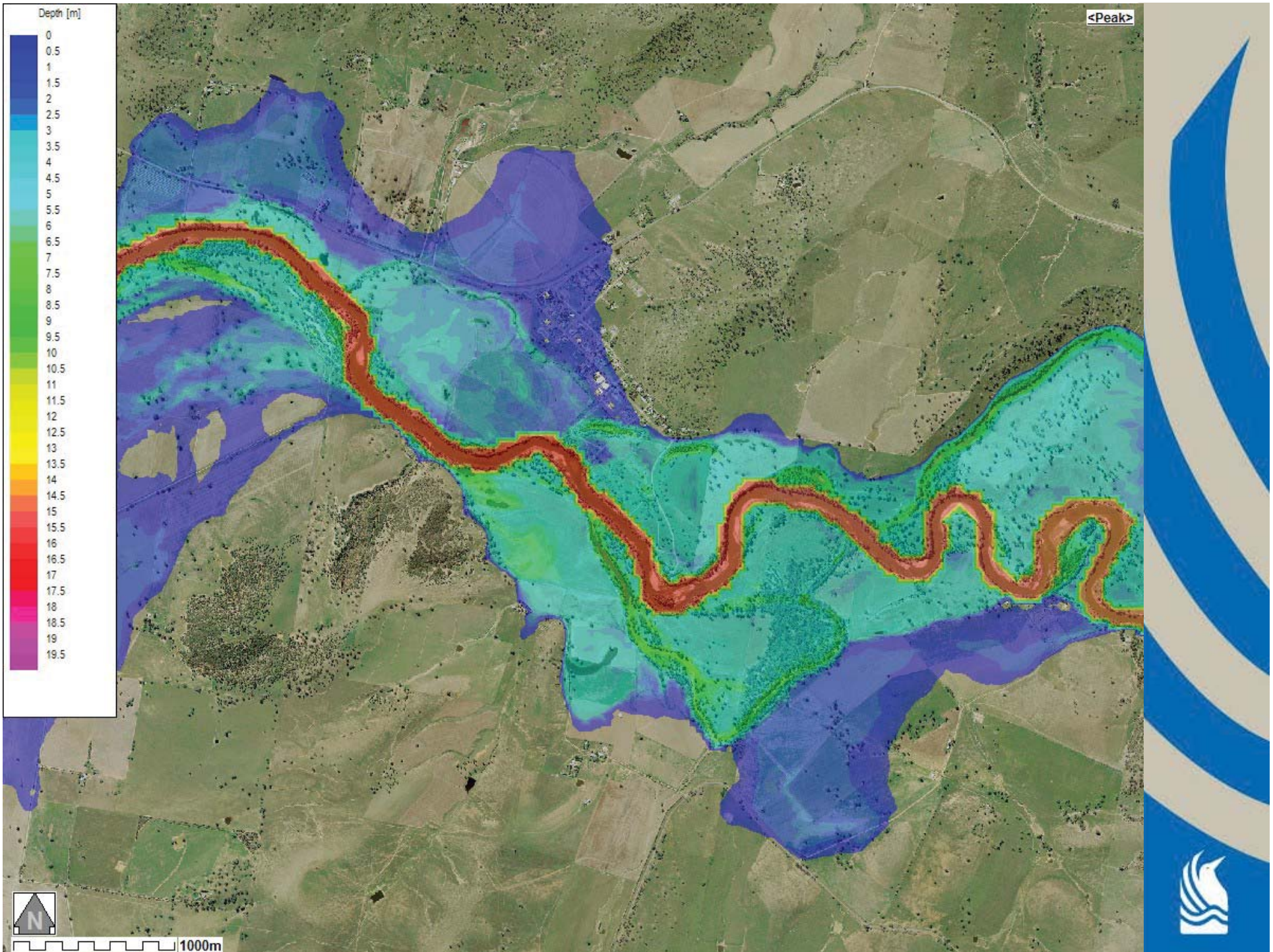


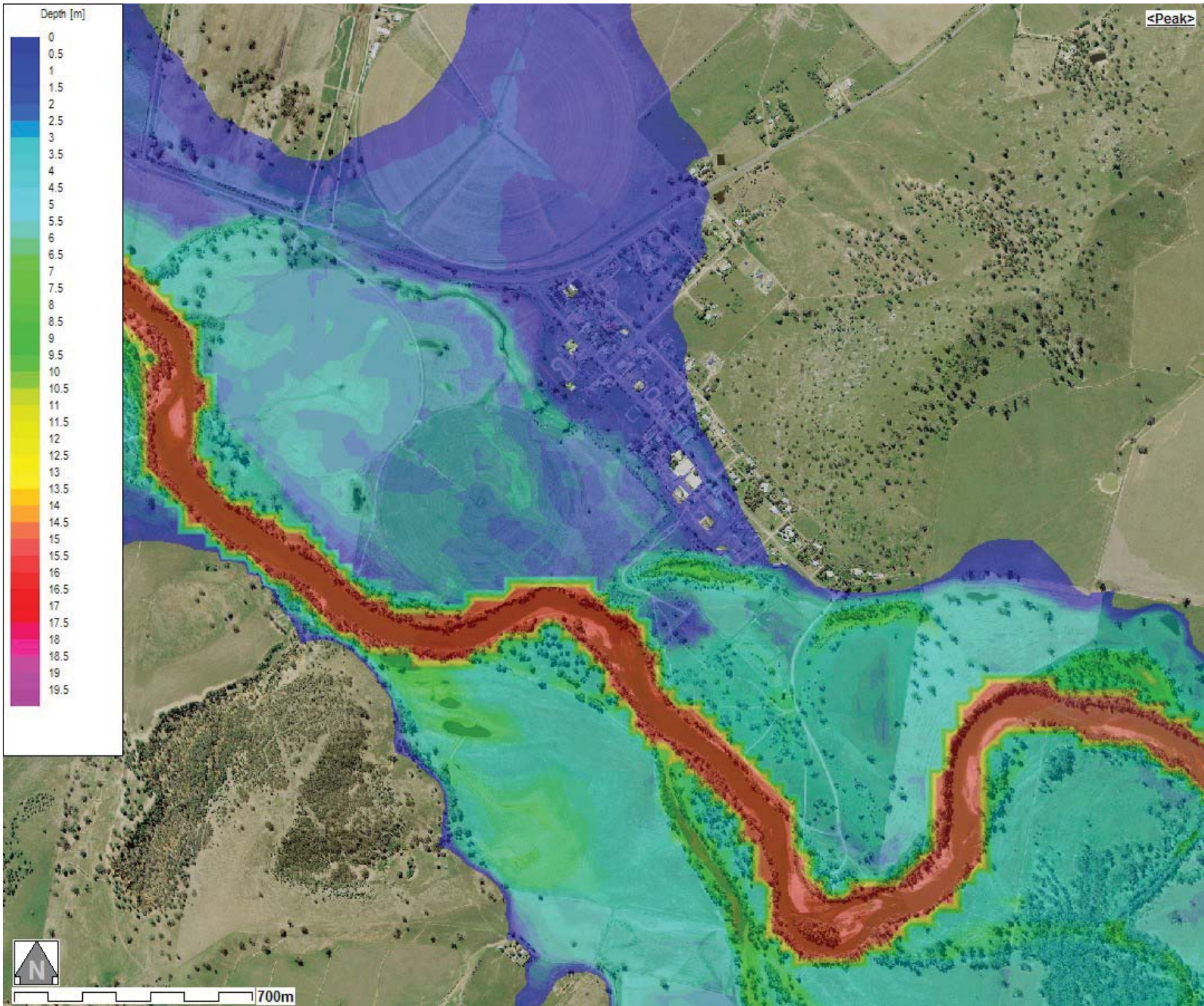
0.00 hours



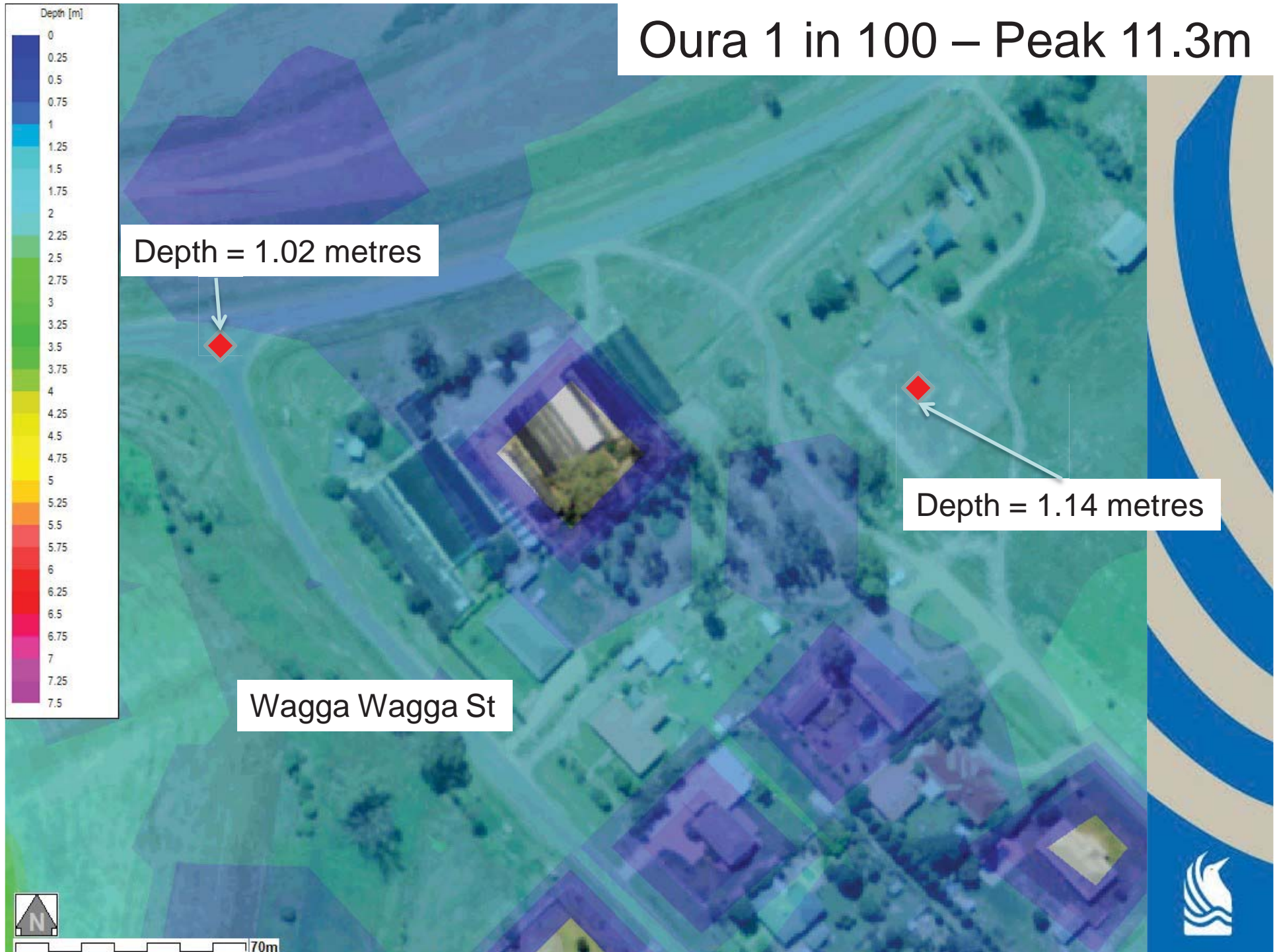
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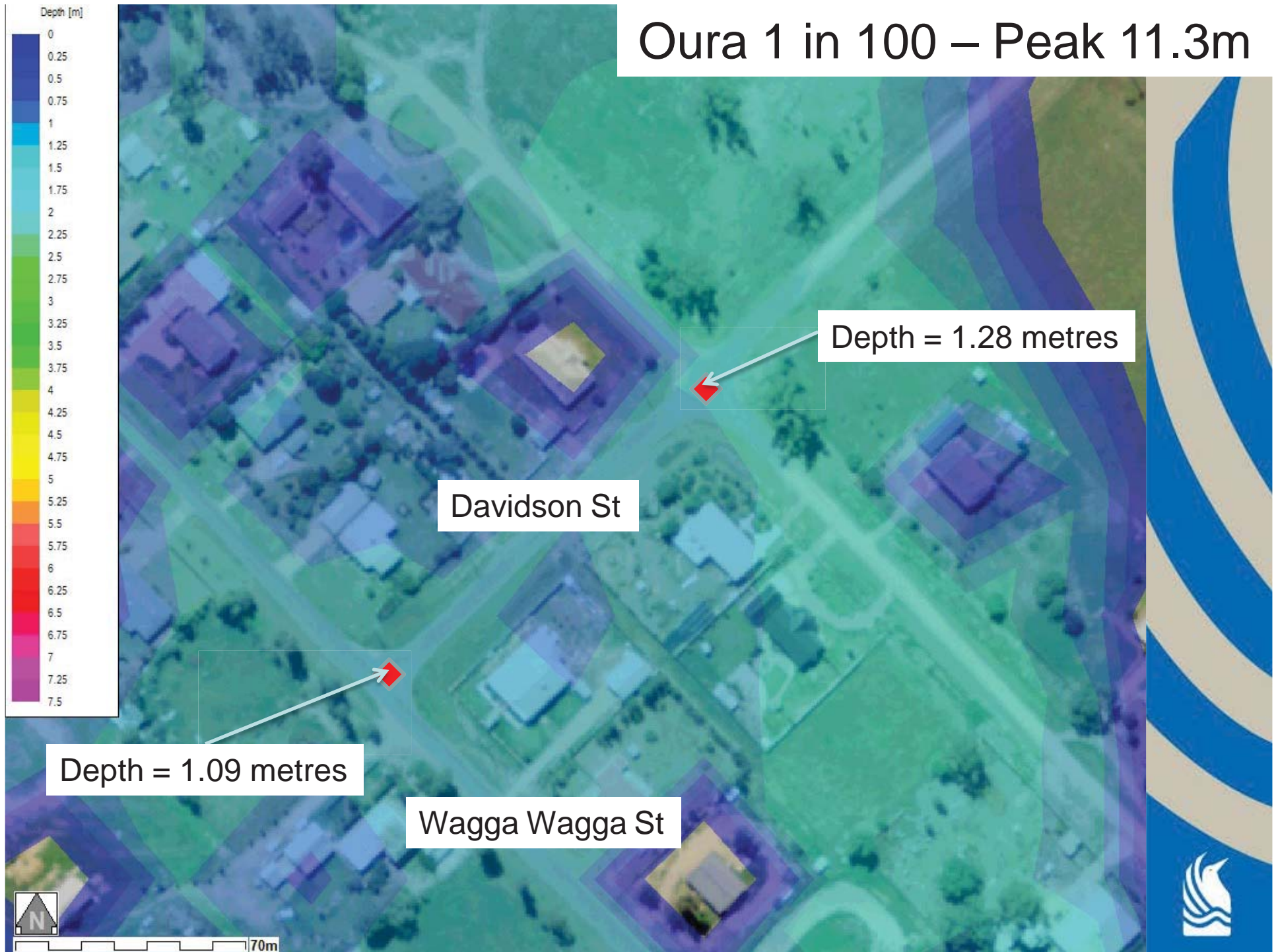




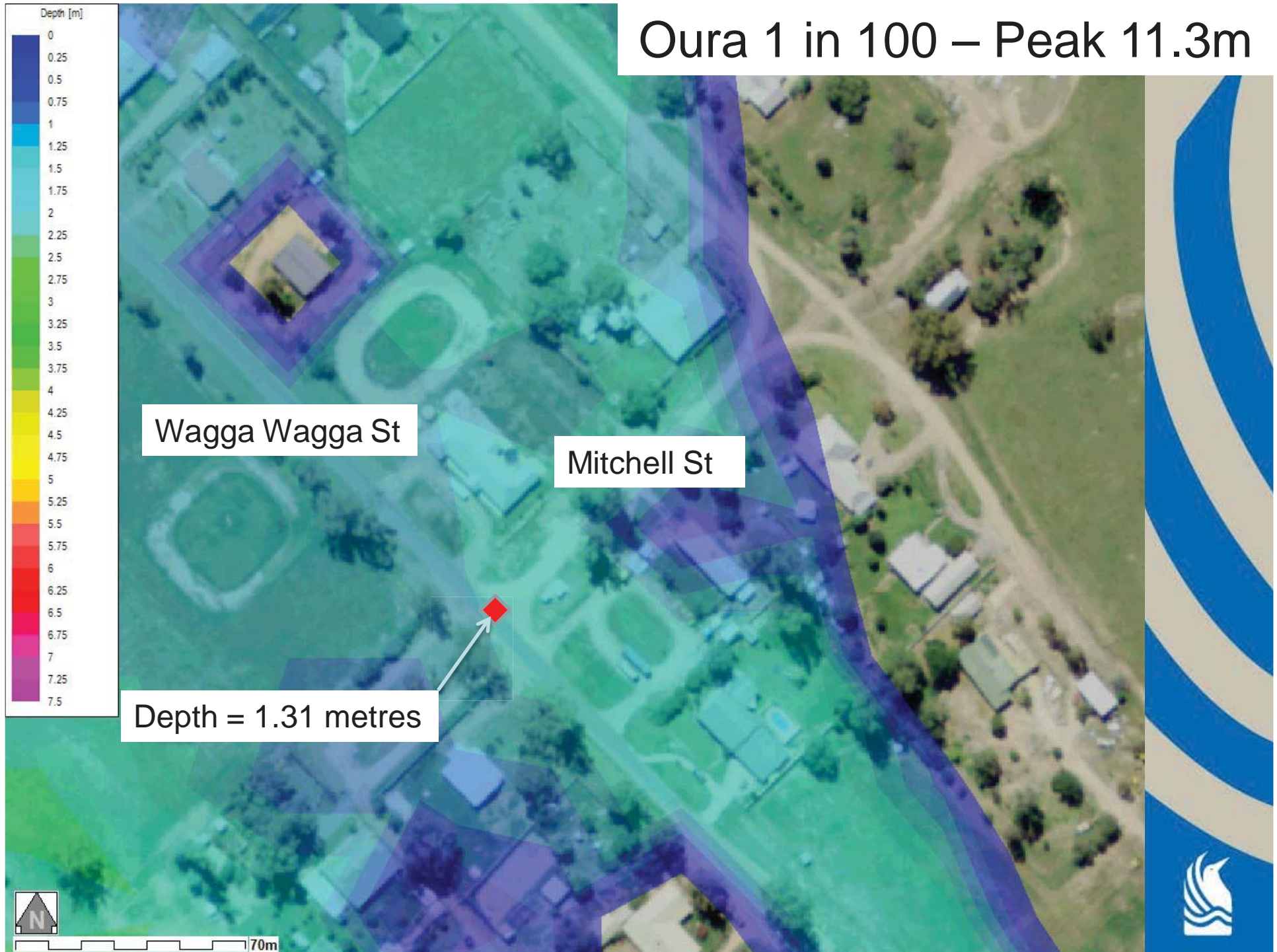
# Oura 1 in 100 – Peak 11.3m



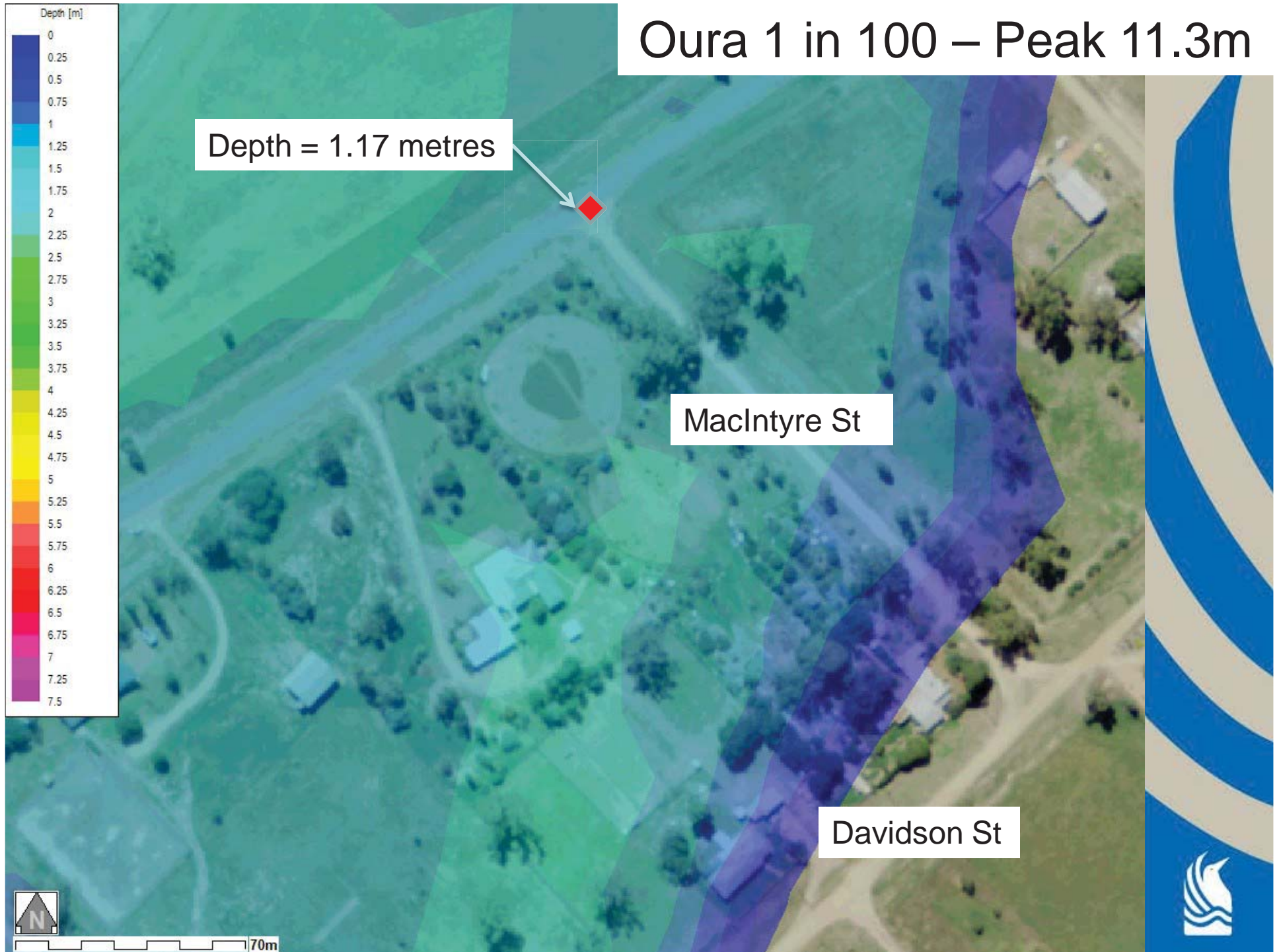
# Oura 1 in 100 – Peak 11.3m



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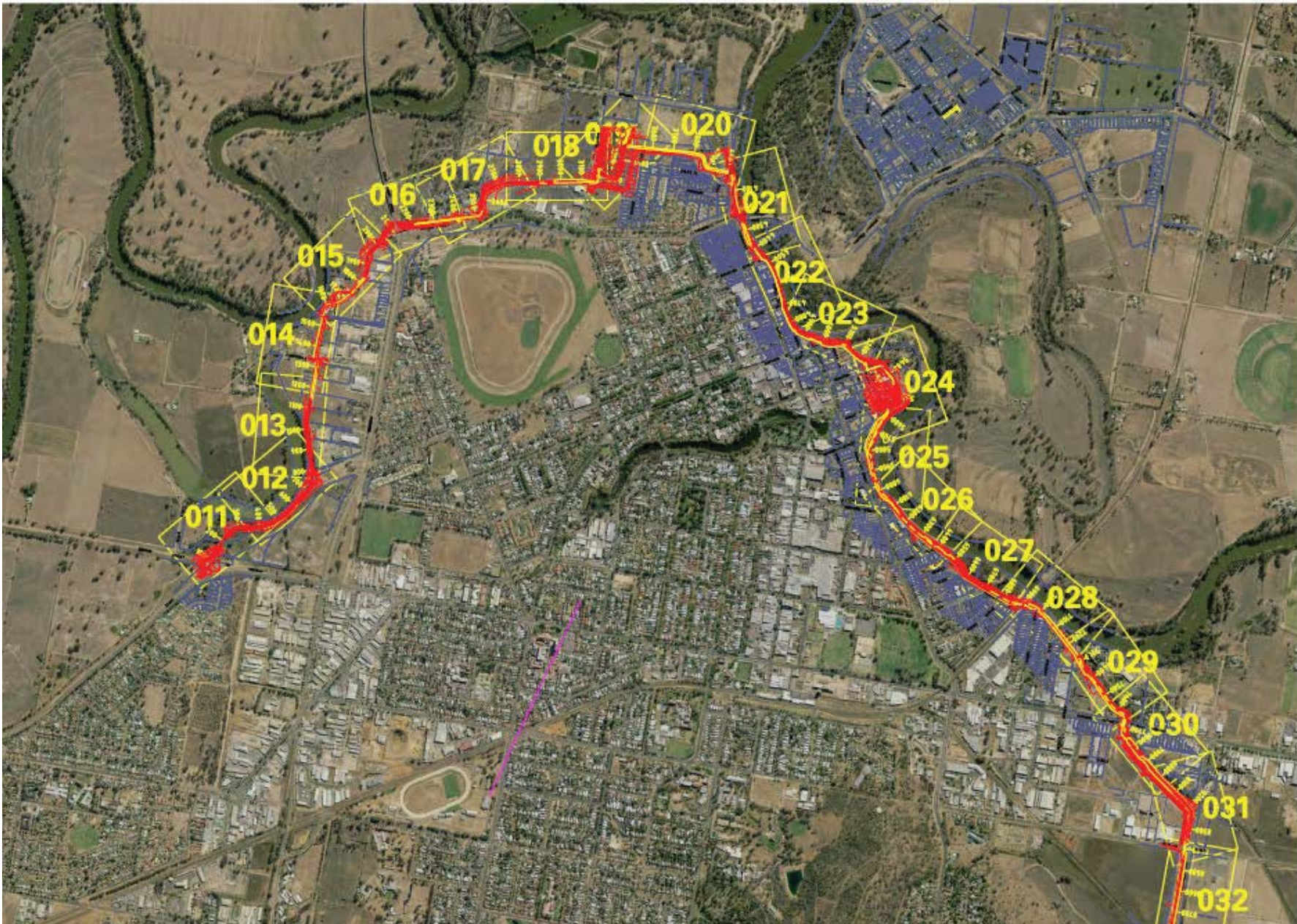


# QUESTIONS

- Modelling
- Impacts of the proposed upgrade







How do I interpret the documents?



# Flood Futures

## Main City & North Wagga Levee Upgrade

### A guide to reading the technical drawings

A number of documents relating to the concept designs for the proposed upgrade of the Main City & North Wagga levees are currently on public exhibition and Council is seeking your input into them.

#### Here are a few tips to remember when looking through the documents:

- Council understands the documents have a lot of technical information and it isn't expected that you should have to navigate them without assistance. As well as community meetings, you can also contact Infrastructure Planning on 1300 292 442 or email us at leveeupgrade@wagga.nsw.gov.au
- If you live in or own a property within the floodplain, Council staff can provide you with specific information relating to your property in person. Simply contact us to arrange a time that suits.
- There are three main documents on exhibition that should be used to inform your comments 1) the Levee Upgrade report and its associated attachments 2) Preliminary Environmental & Planning Overview and 3) the Freeboard Report
- We have developed a glossary for some terms you may not be familiar with that is located on the website. Let us know if there are any more you would like added.

#### What the detail on the Drawings means:

Information in the top section follows the centre line of the proposed levee and is separated from the photo for easier reading

Find these numbers in Appendix A for a description of existing levee, how much more height is required at this point, constraints on upgrade process and construction options

Black dotted lines indicate the proposed centre line of the levee

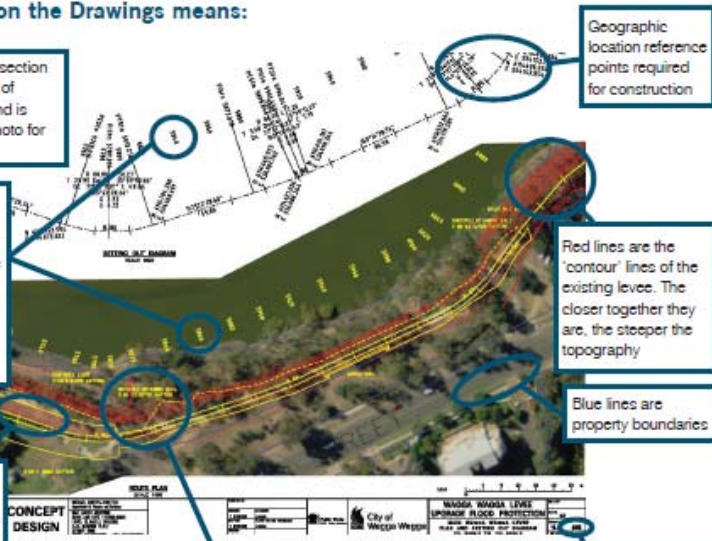
Yellow lines and writing indicates the 'footprint' of the proposed levee and simple construction detail

Geographic location reference points required for construction

Red lines are the 'contour' lines of the existing levee. The closer together they are, the steeper the topography

Blue lines are property boundaries

Drawing number - refer to Drawing 1 Overview Page for the key map where you can identify different sections of the levee, and how they are numbered to find further detailed drawings



# How do I get further information and assistance?



[www.wagga.nsw.gov.au/floodfutures](http://www.wagga.nsw.gov.au/floodfutures)



1300 292 442



[leveeupgrade@wagga.nsw.gov.au](mailto:leveeupgrade@wagga.nsw.gov.au)



# How can I share my views?



[www.wagga.nsw.gov.au/floodfutures](http://www.wagga.nsw.gov.au/floodfutures)



PO Box 20 Wagga Wagga



[leveeupgrade@wagga.nsw.gov.au](mailto:leveeupgrade@wagga.nsw.gov.au)



# FINAL QUESTIONS

