



# Main City and North Wagga Levee Upgrade Project



**Central Wagga Wagga  
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

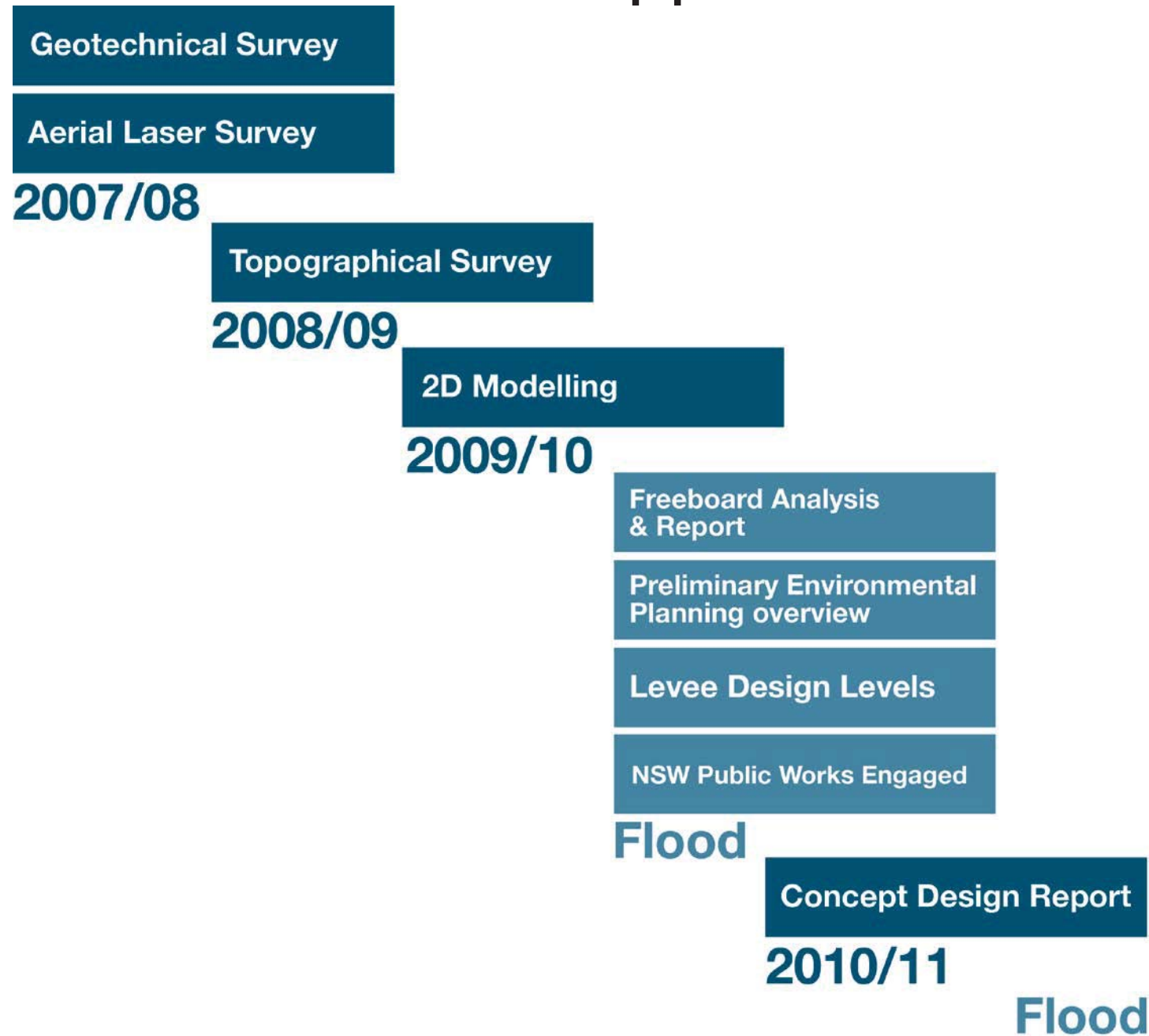
- Temporary levees built since 1930's
- Levee formalized in 1990 to what was then thought to be a 1 in 20 yr level of protection

## 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.



# **Review of Environmental Factors**

Reuben Robinson  
GHD



# Environmental issues

- Biodiversity (flora and fauna)
- Soils and water quality
- River flow and flooding
- Land use and property
- Noise and vibration
- Air quality
- Visual impacts



# Environmental issues (cont)

- Aboriginal and European heritage
- Traffic and access
- Social and economic impacts



# QUESTIONS

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





WAGGA WAGGA CITY COUNCIL  
MURRUMBIDGEE RIVER MODEL CONVERSION PROJECT  
FINAL REPORT

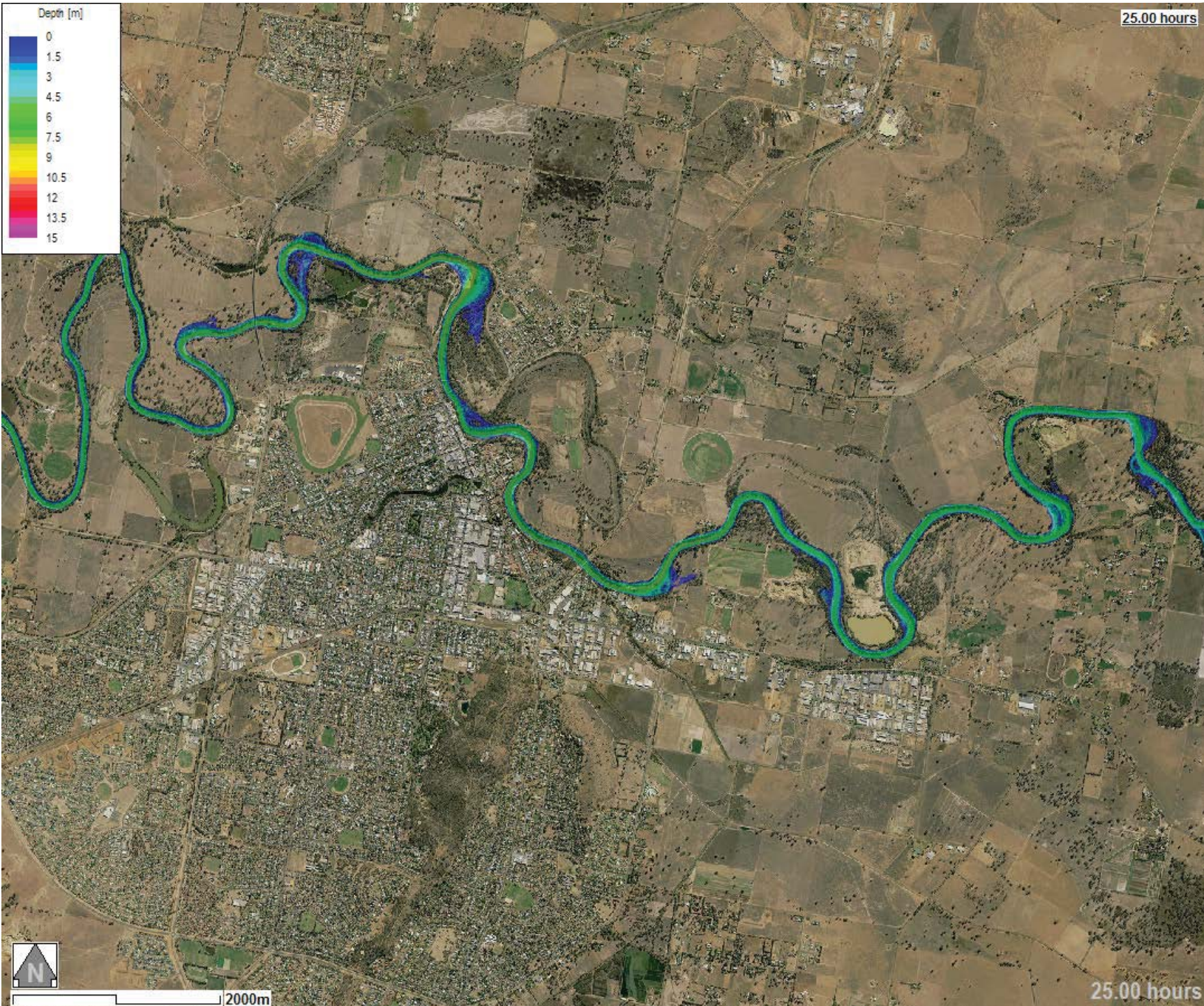
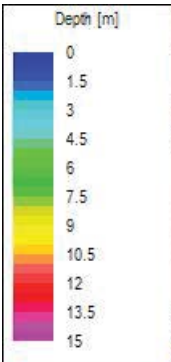


SEPTEMBER 2010

# What is Flood Modelling?



25.00 hours

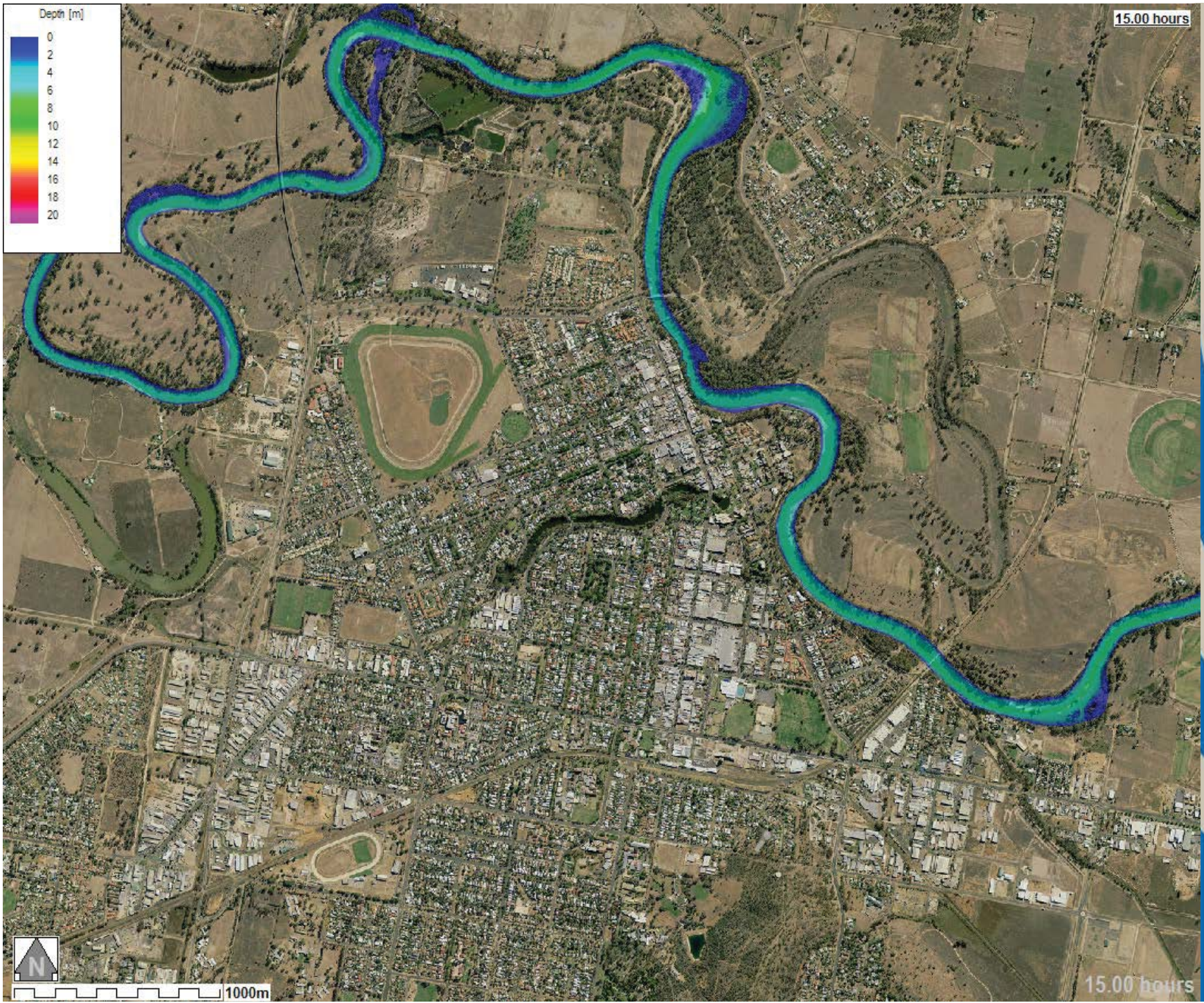


2000m

25.00 hours







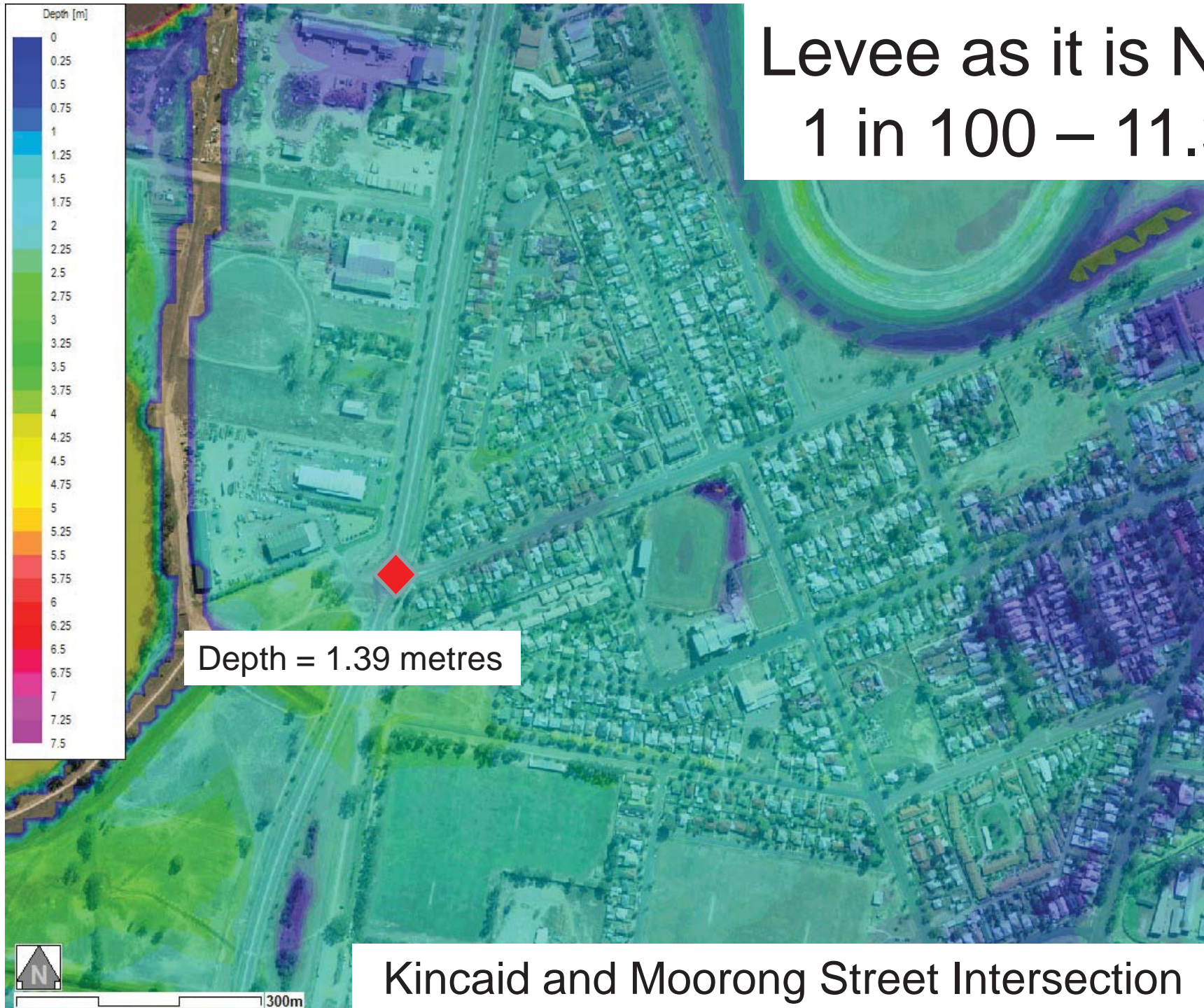
# Levee as it is NOW 1 in 100 – 11.3m



# Levee as it is NOW 1 in 100 – 11.3m



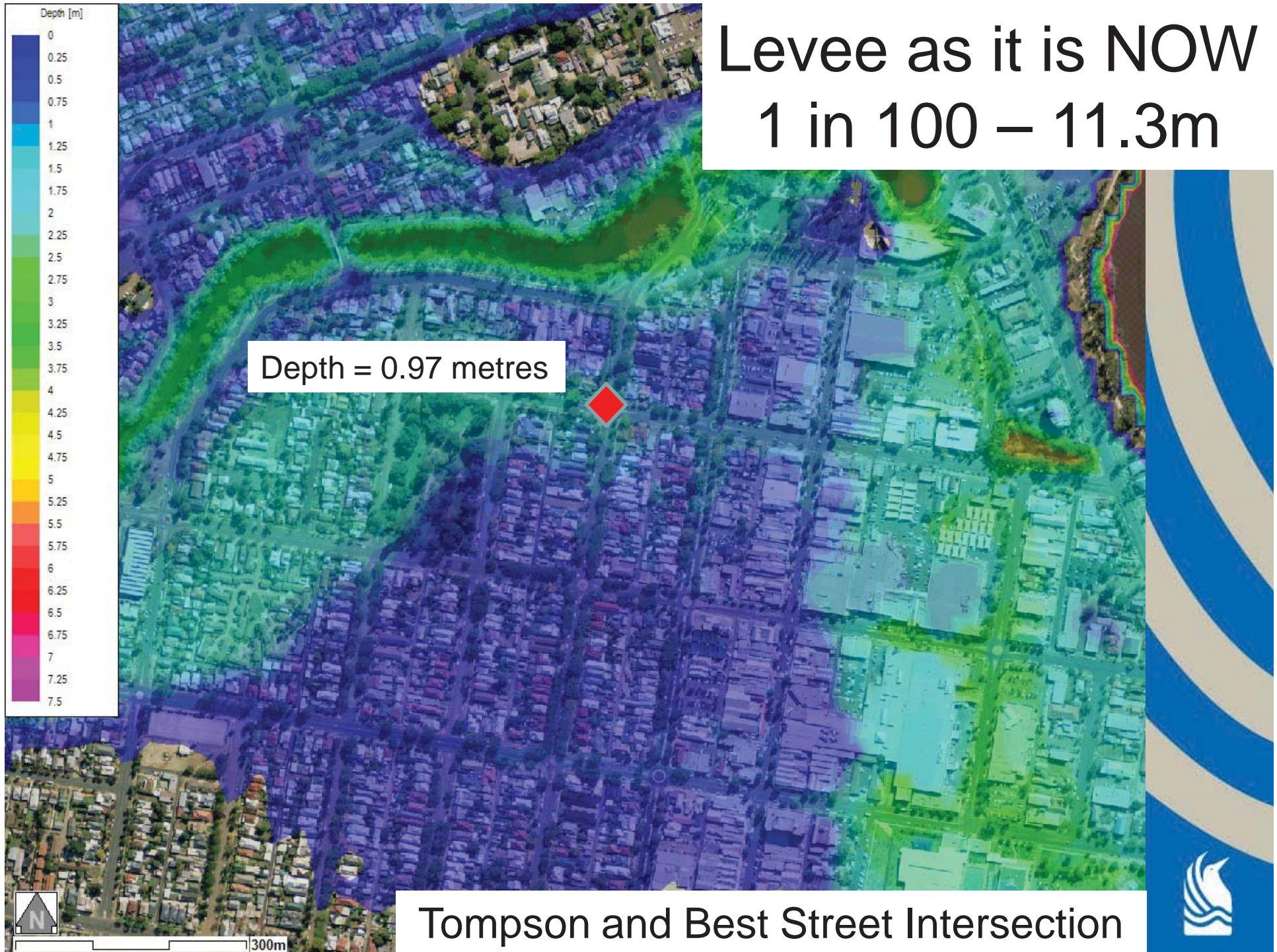
# Levee as it is NOW 1 in 100 – 11.3m



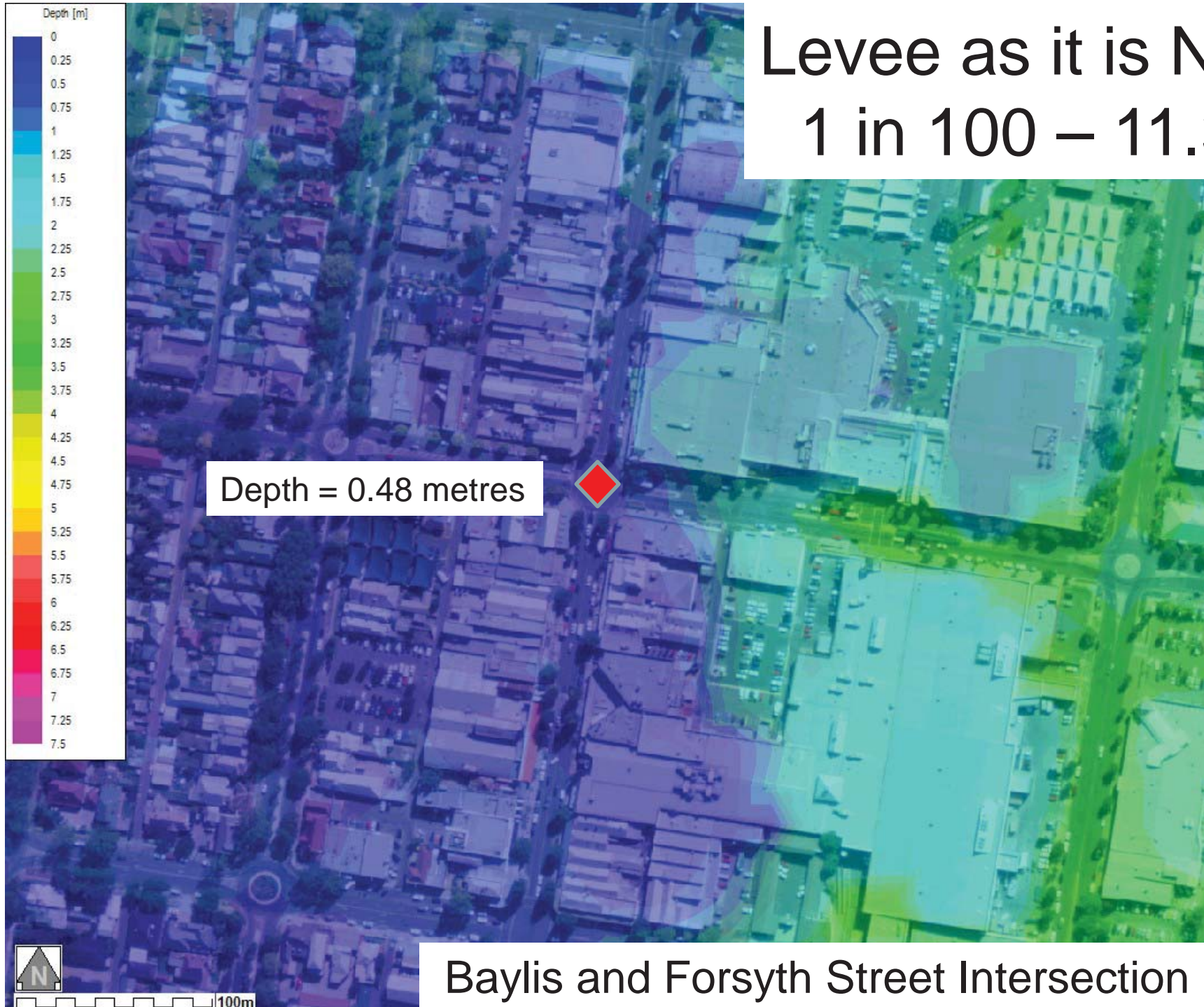
# Levee as it is NOW 1 in 100 – 11.3m



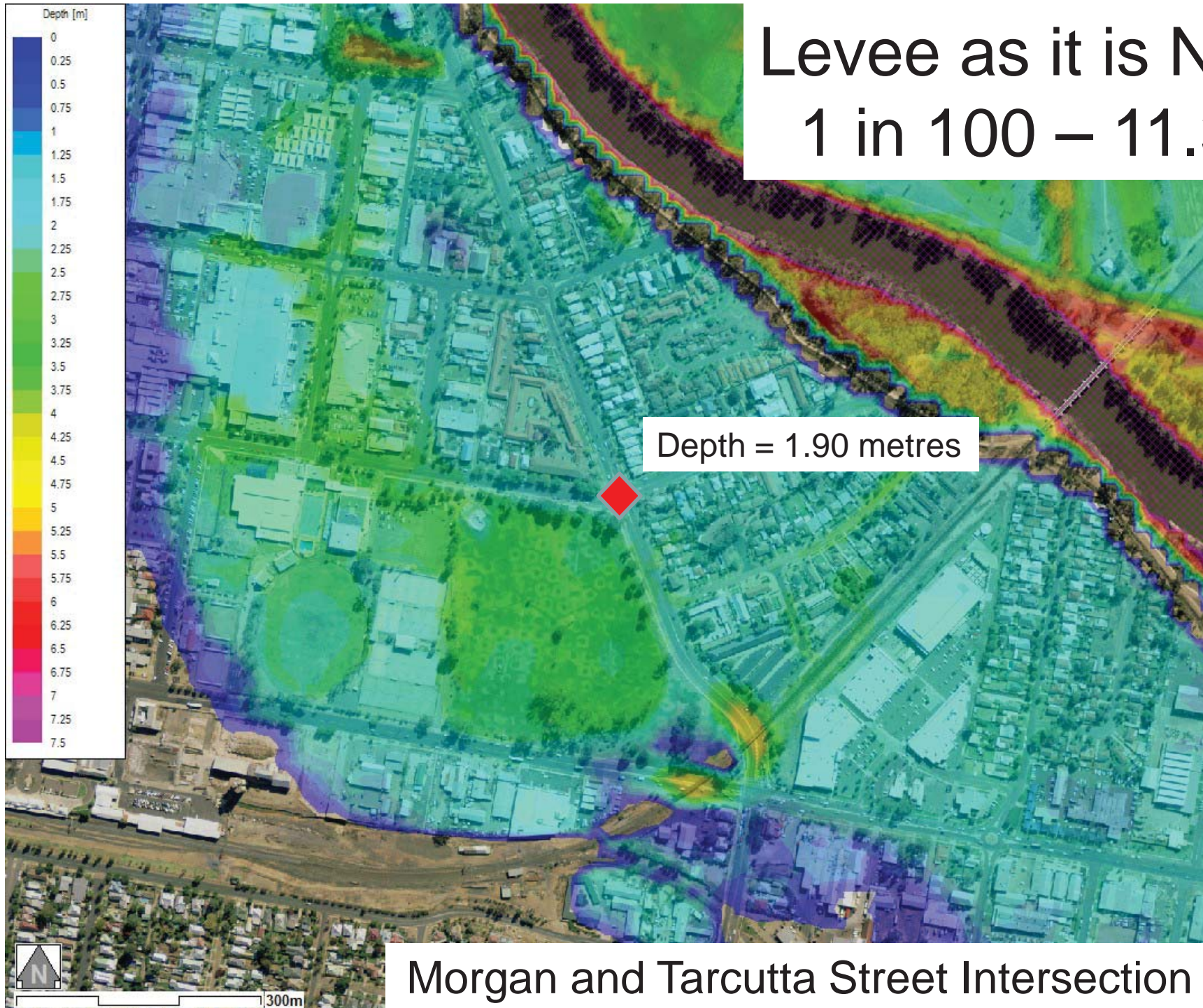
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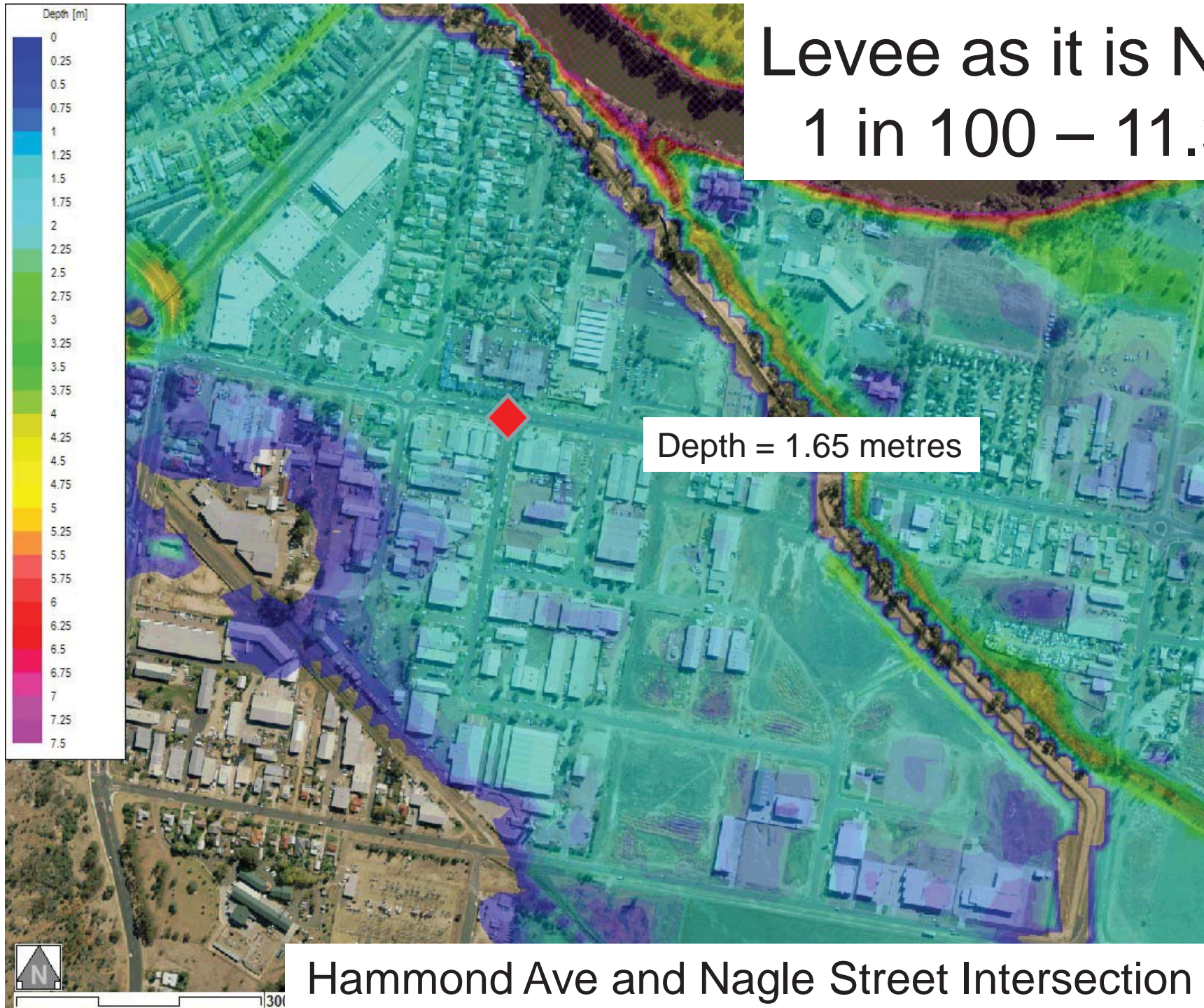


# Levee as it is NOW 1 in 100 – 11.3m

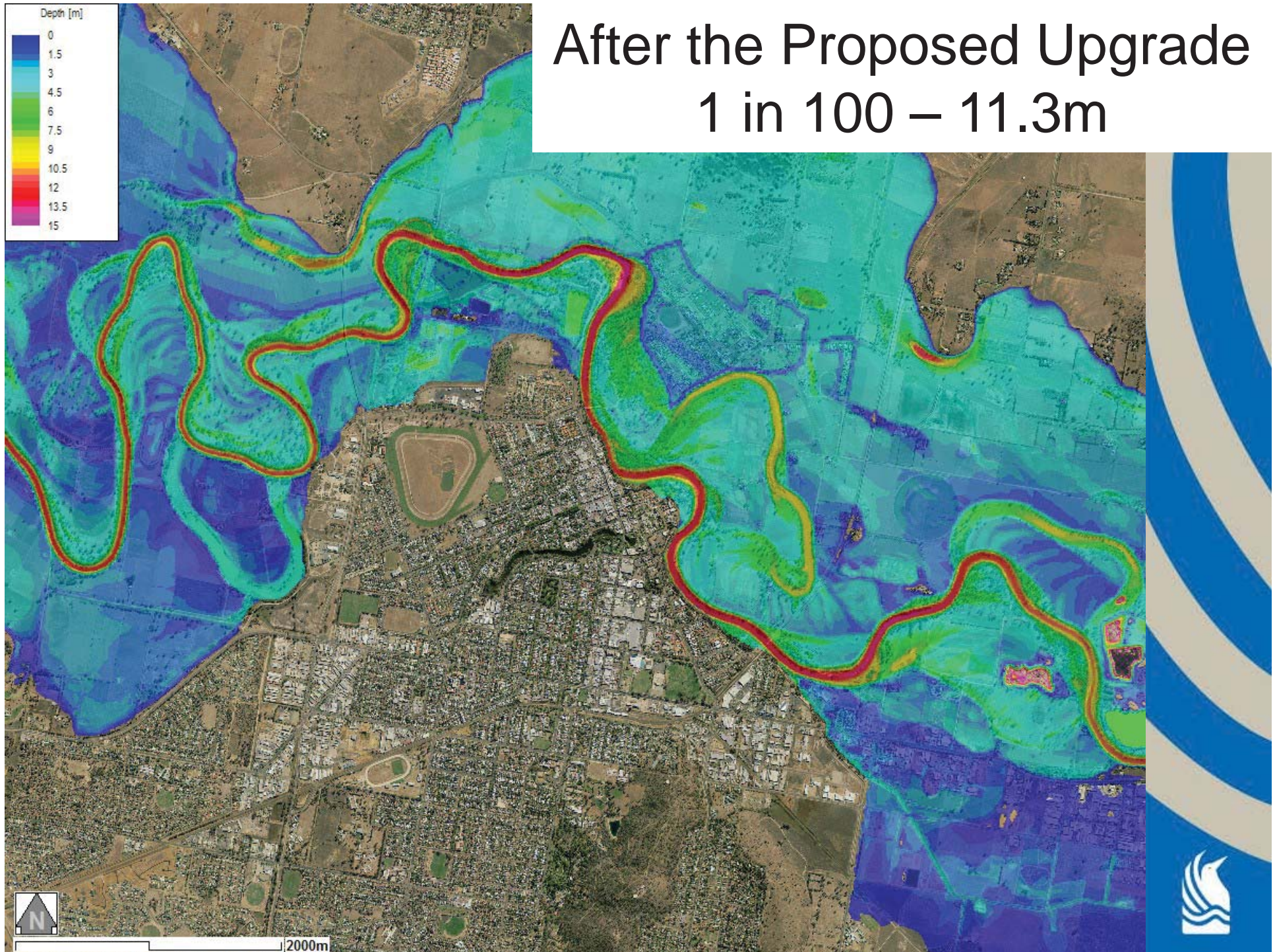




# Levee as it is NOW 1 in 100 – 11.3m



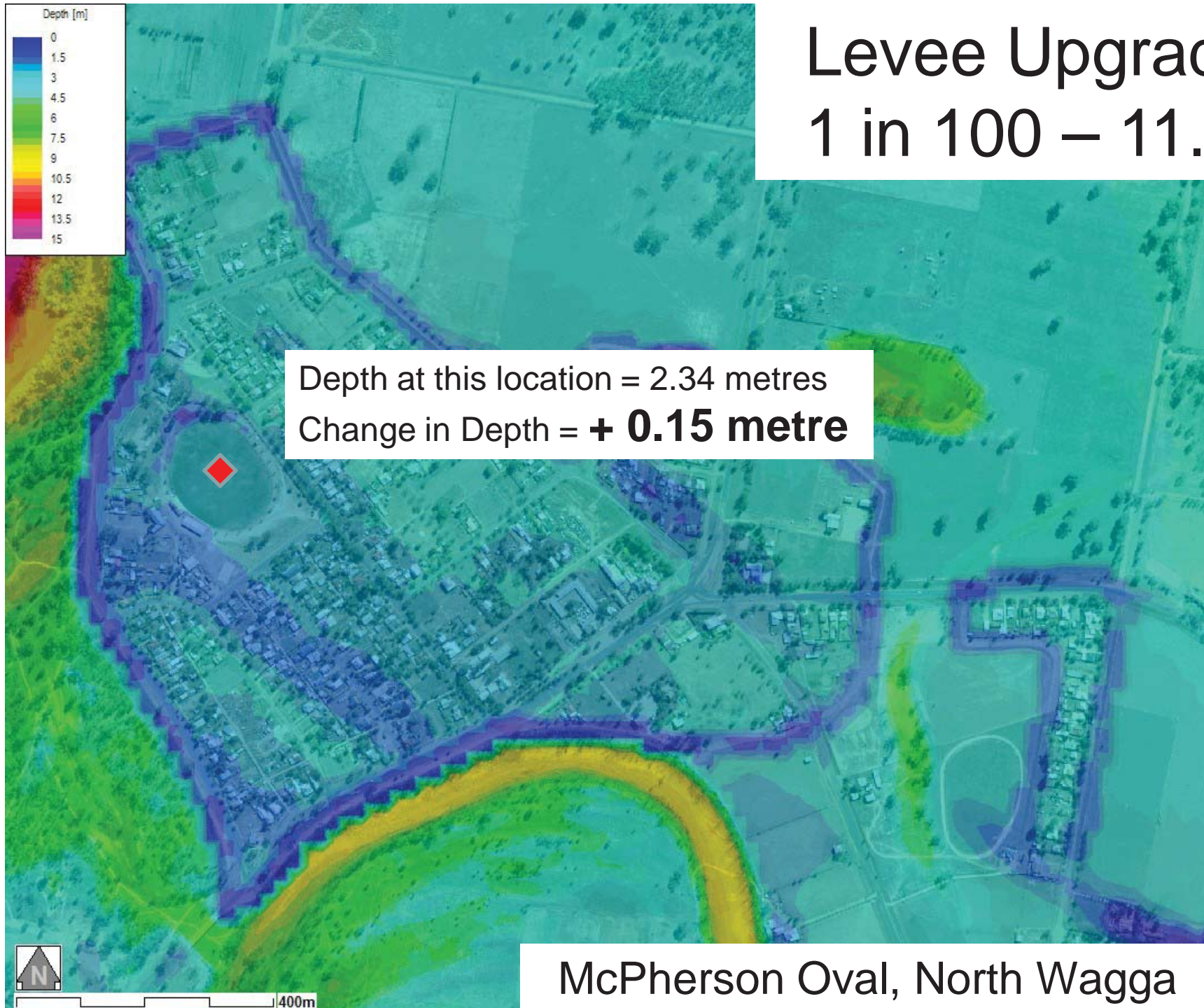
# After the Proposed Upgrade 1 in 100 – 11.3m



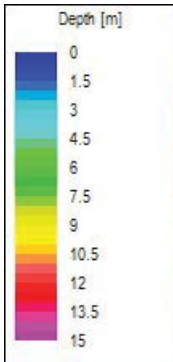
What impact will an upgraded levee have on the floodplain?



# Levee Upgraded 1 in 100 – 11.3m



# Levee Upgraded 1 in 100 – 11.3m



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

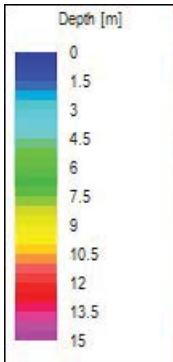
Hammond Avenue

Koorungal Road

Koorungal Rd and Hammond Ave Intersection, East Wagga



# Levee Upgraded 1 in 100 – 11.3m



Graham Avenue

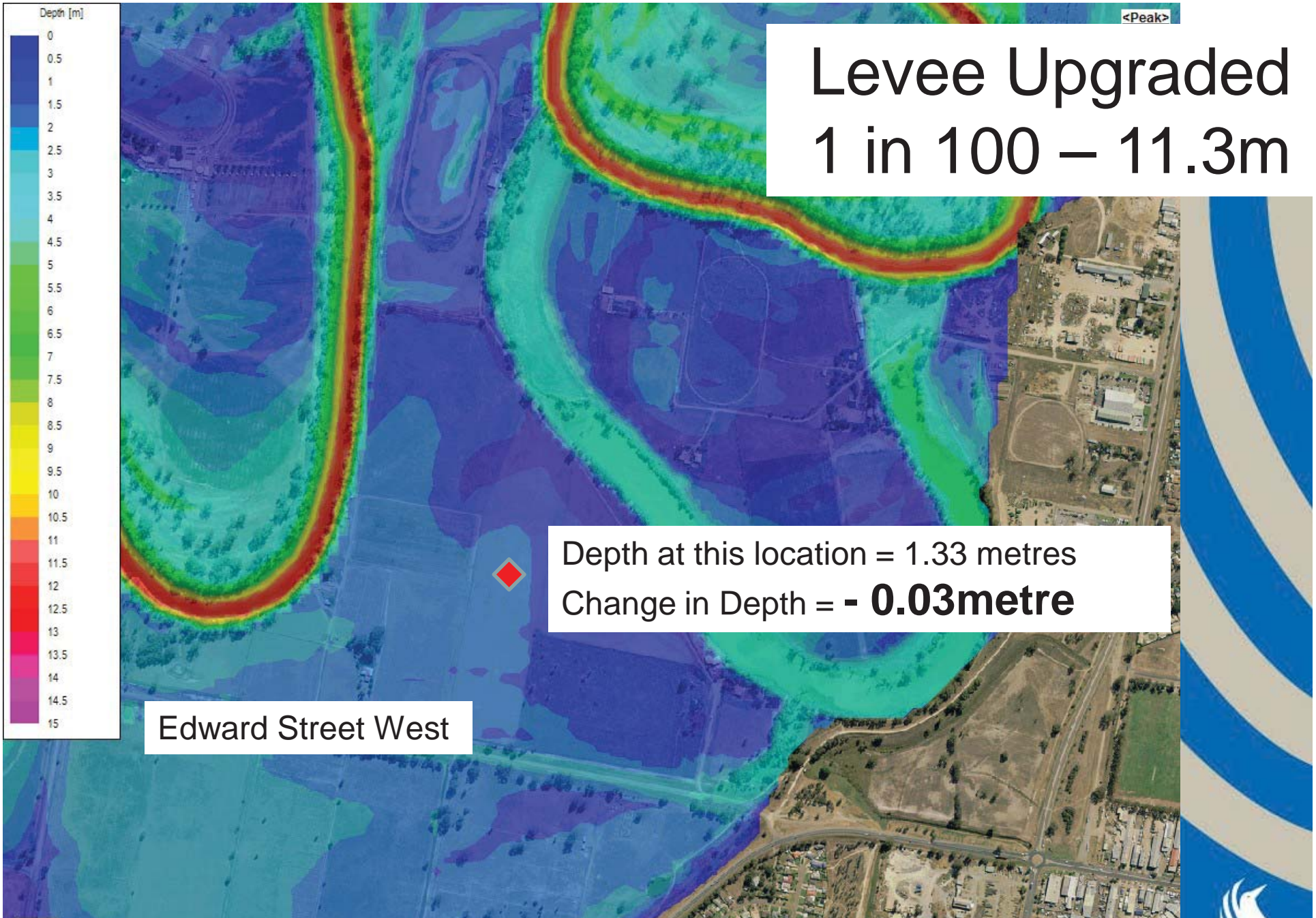
Gumly Road



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

Gumly Road and Graham Avenue Intersection, Gumly Gumly



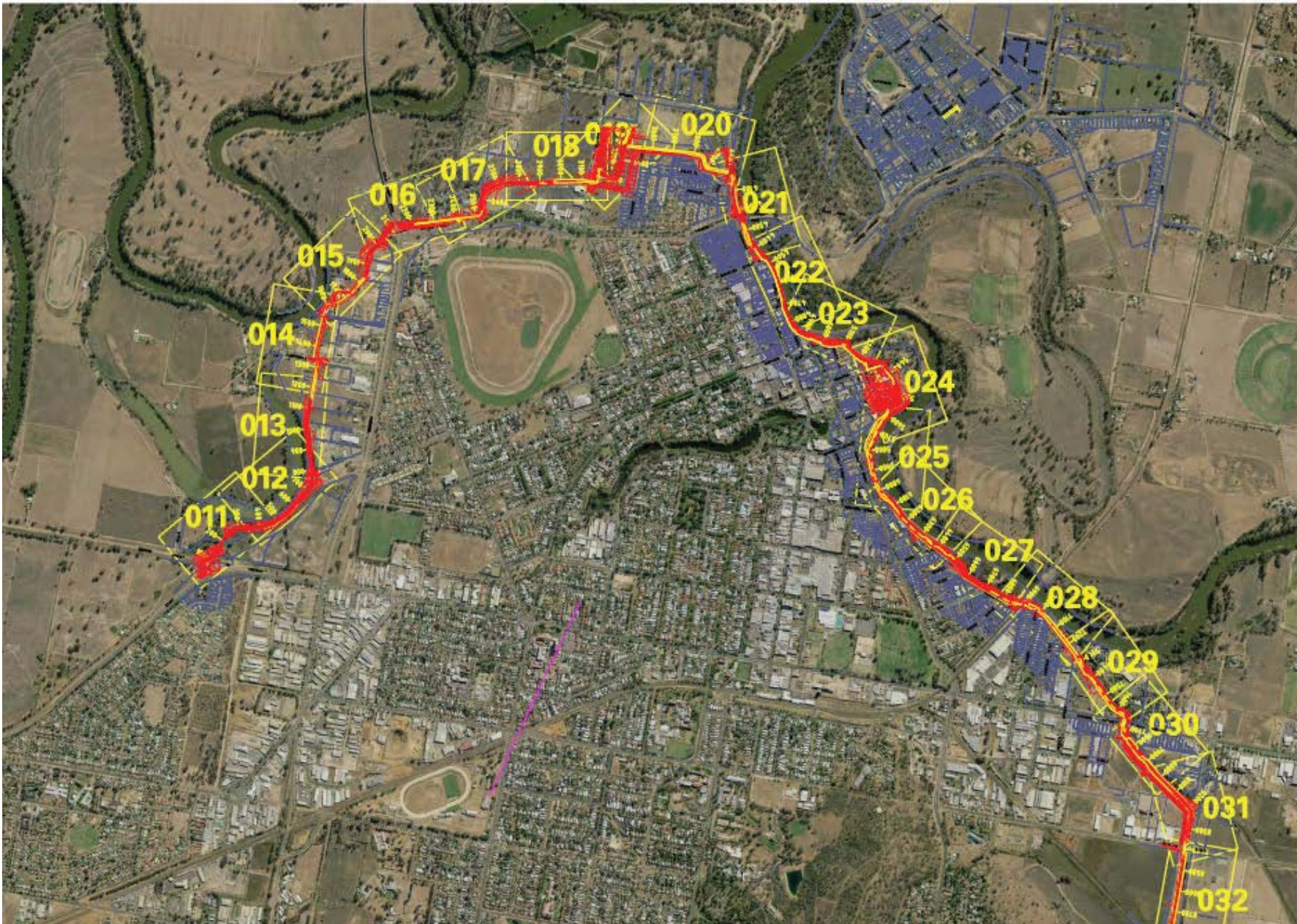


# QUESTIONS

- Modelling
- Impacts of the proposed upgrade

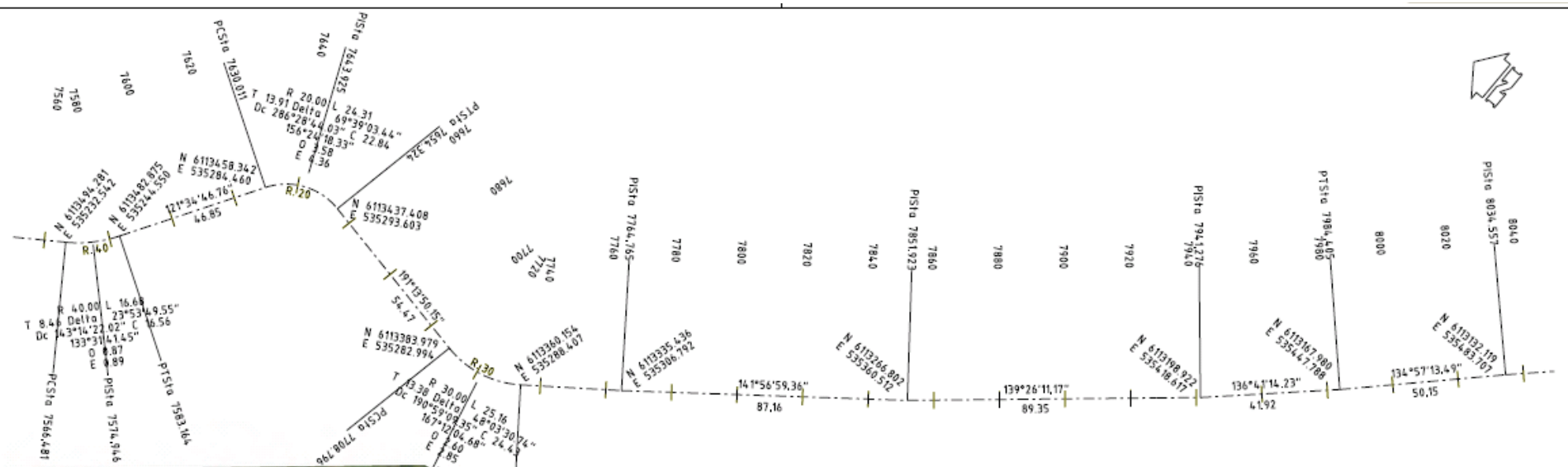




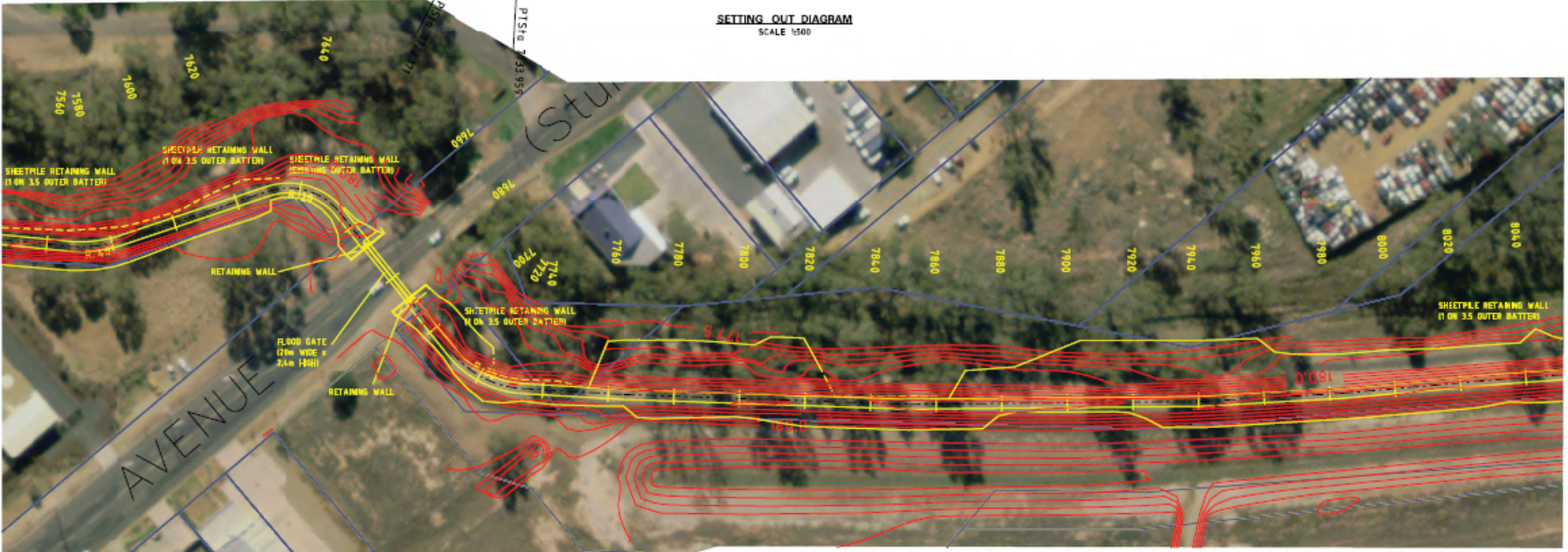


How do I interpret the documents?





**SETTING OUT DIAGRAM**  
SCALE 1:500



**ROUTE PLAN**  
SCALE 1:500

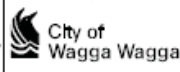
7	PROVISIONS CHECKED:	JL	18/03/11
8	ISSUED FOR REVIEW:	JL	22/04/11
9	ISSUED FOR WORKSHOP:	JL	10/05/11
10	DETAILS OF AMENDMENTS:	AMEND	GATE

**NOT FOR CONSTRUCTION**

**CONCEPT DESIGN**

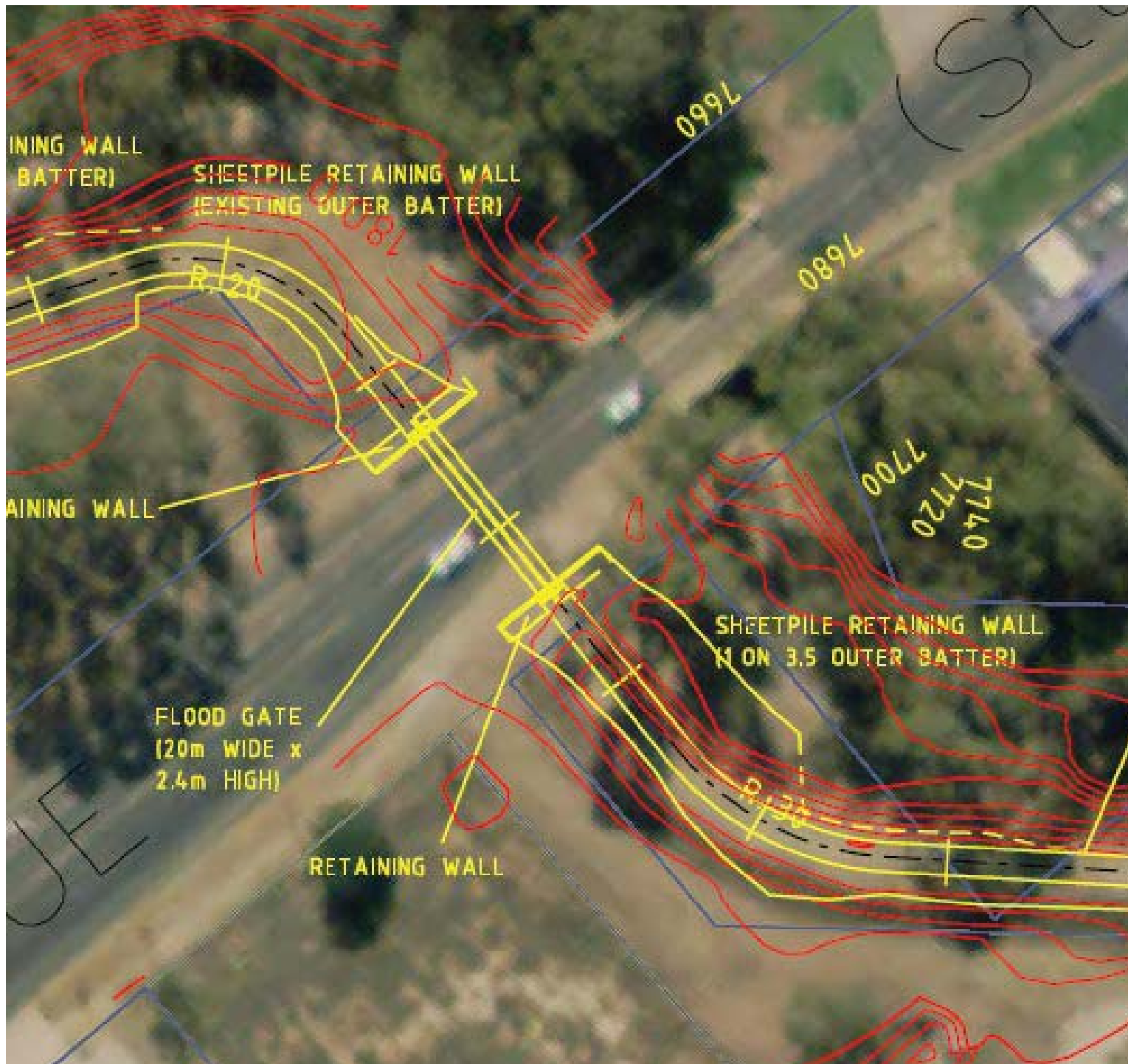
NIHSEL (DUTTS-TRUTTER)  
Department of Planning and Services  
NEW WATER SOLUTIONS  
DAMS AND TIDAL TREATMENT PLANTS  
LEVEE 13, NIHSEL BUILDING  
3-1/2 PANSON PLACE  
STREET 2000  
PHONE (02) 93727066 FAX (02) 93727022

DATE	BY	COMMENT
18/03/11	J. BOSSON	ISSUED
22/04/11	J. BOSSON	ISSUED
10/05/11	J. BOSSON	ISSUED

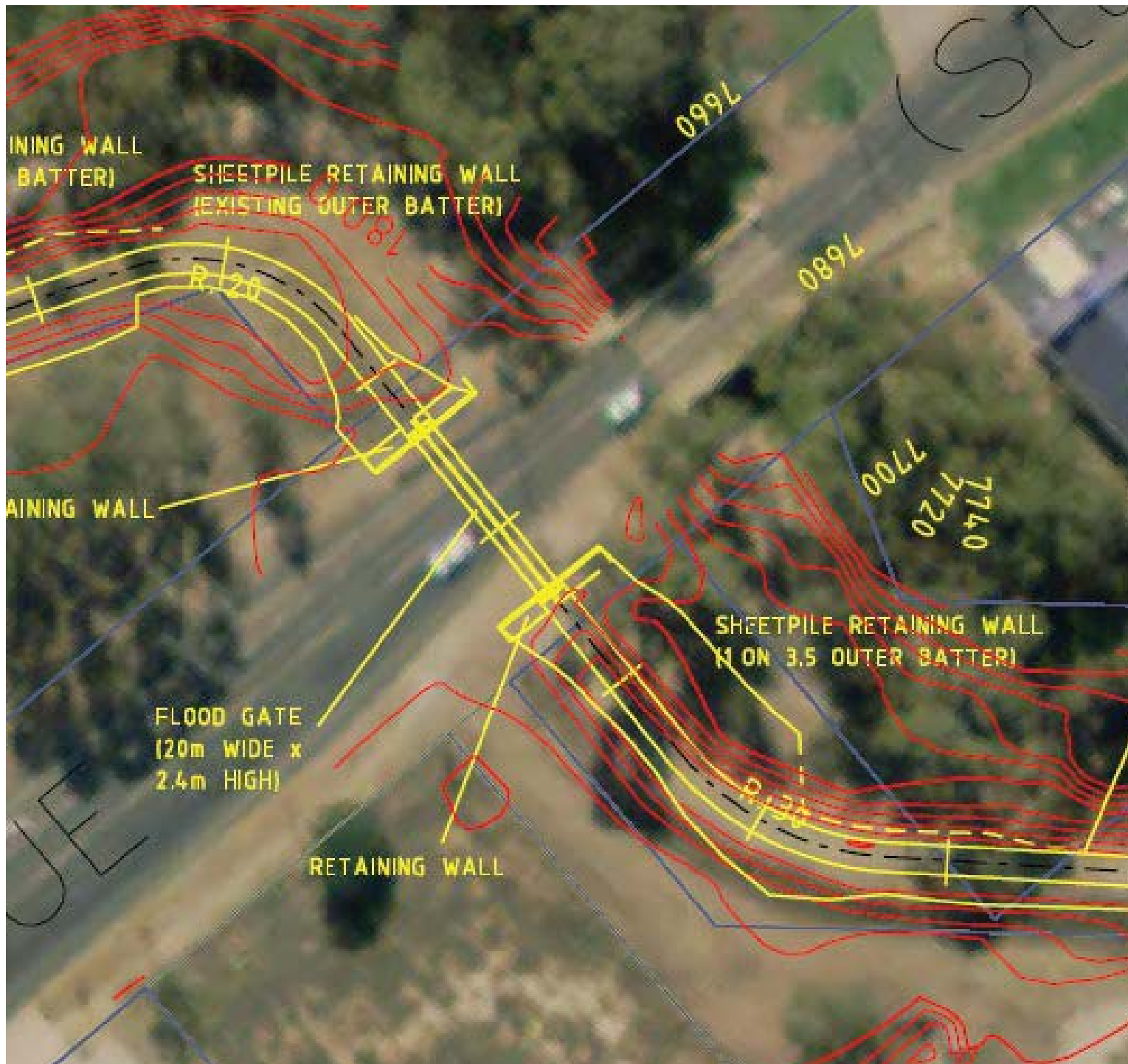


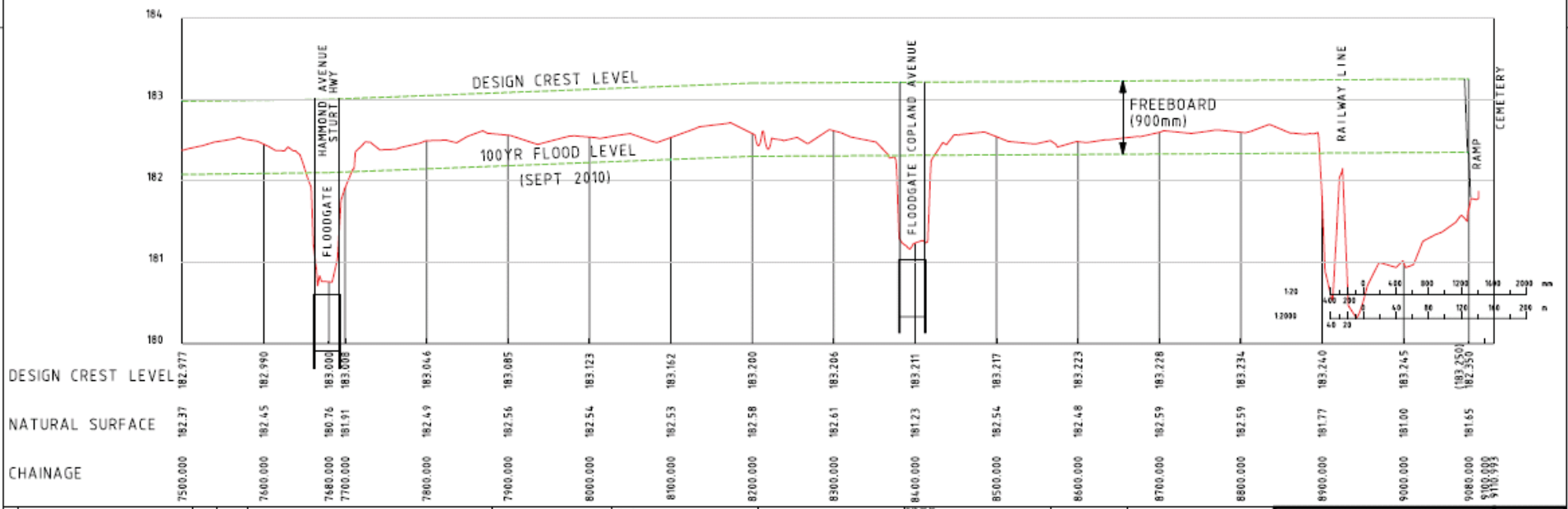
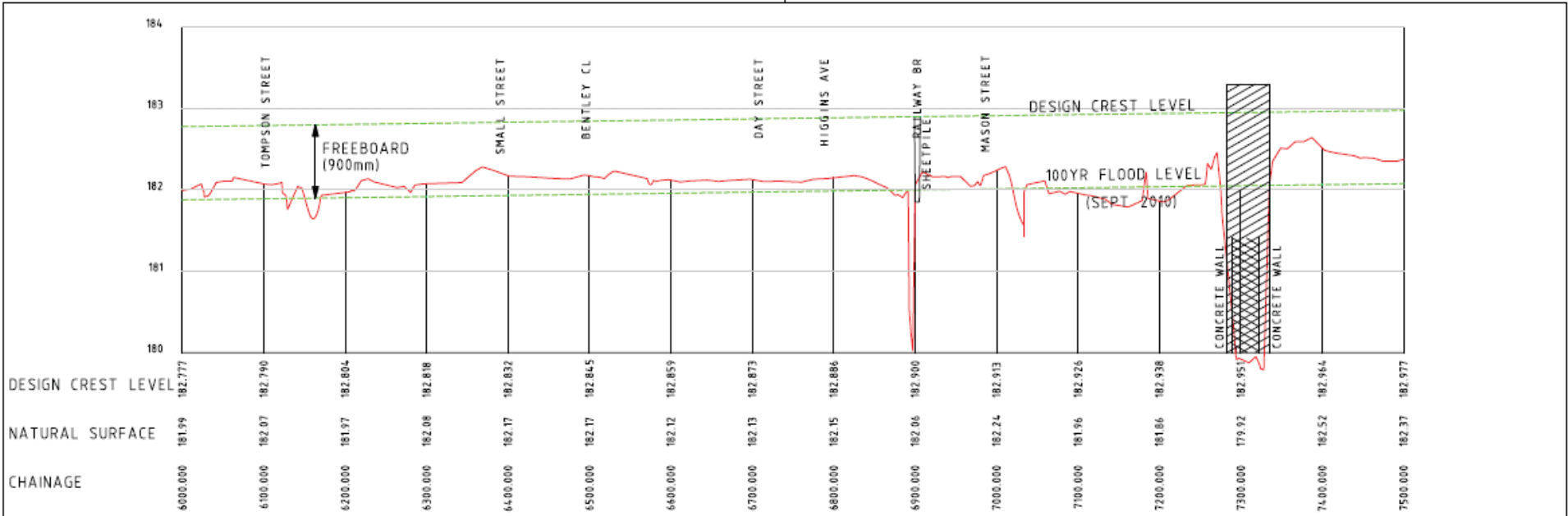
<b>WAGGA WAGGA LEVEE UPGRADE FLOOD PROTECTION</b>		DATE
MAIN WAGGA WAGGA LEVEE PLAN AND SETTING OUT DIAGRAM		NO. 030
CH. 7600.0 TO CH. 8000.0		REVISION 2





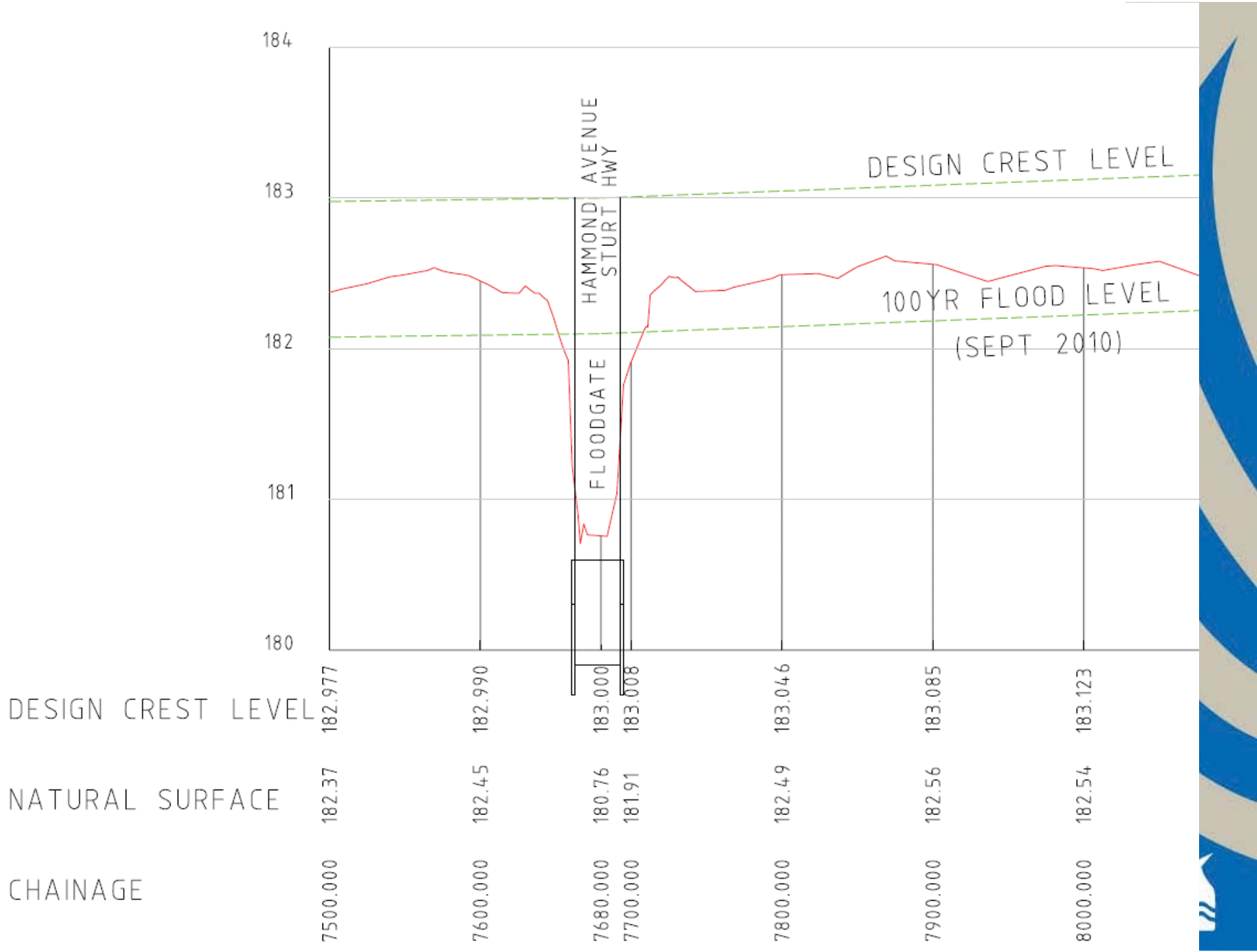






<p><b>NOT FOR CONSTRUCTION</b></p>		<p><b>CONCEPT DESIGN</b></p>		<p>MICHAEL CHAFFS-TROTTER Department of Services and Services NSW WATER SUPPLIES DAMS AND CIVIL TECHNOLOGIES LEVEL TO MULLI BUILDING 3-25 PARKSON PLACE SYDNEY 2008 PHONE (02) 97223000 FAX (02) 97227022</p>		<p>PLAN NO. 10 REVISED: 11/2008 DESIGNED: PL/BAW AND SH/THALANGI DRAWN: J/BAW</p>		<p>Public Works City of Wagga Wagga</p>		<p><b>WAGGA WAGGA LEVEL UPGRADE FLOOD PROTECTION</b> MAIN LEVEL LONGITUDINAL SECTION CH. 6000.0 TO CH. 9100.000 REVISED 2</p>		<p>REV. NO. 007 DATE 11/2008 DRAWN BY TL</p>	
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# Earthen Embankment



# Sheetpile Levee



# Hybrid Levee



# Spillway





# QUESTIONS

Reading the designs



# 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)



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# FINAL QUESTIONS

