



Legend

- Main River
- Proposed Design
- Waterlevel Contours (m AOD)

Depth (m)

- < 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- >5

Project Title
A61 Bridge Replacement

Drawing Title
**Peak Water Depth
Design Scenario
2% AEP**

Job
253511-00

Figure
9

Coordinate System
British National Grid

Drawing
Preliminary

Scale 0 100 200 m

A	16/09/21	TH	DA	CW
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Issue	Date	By	Chkd	Appd
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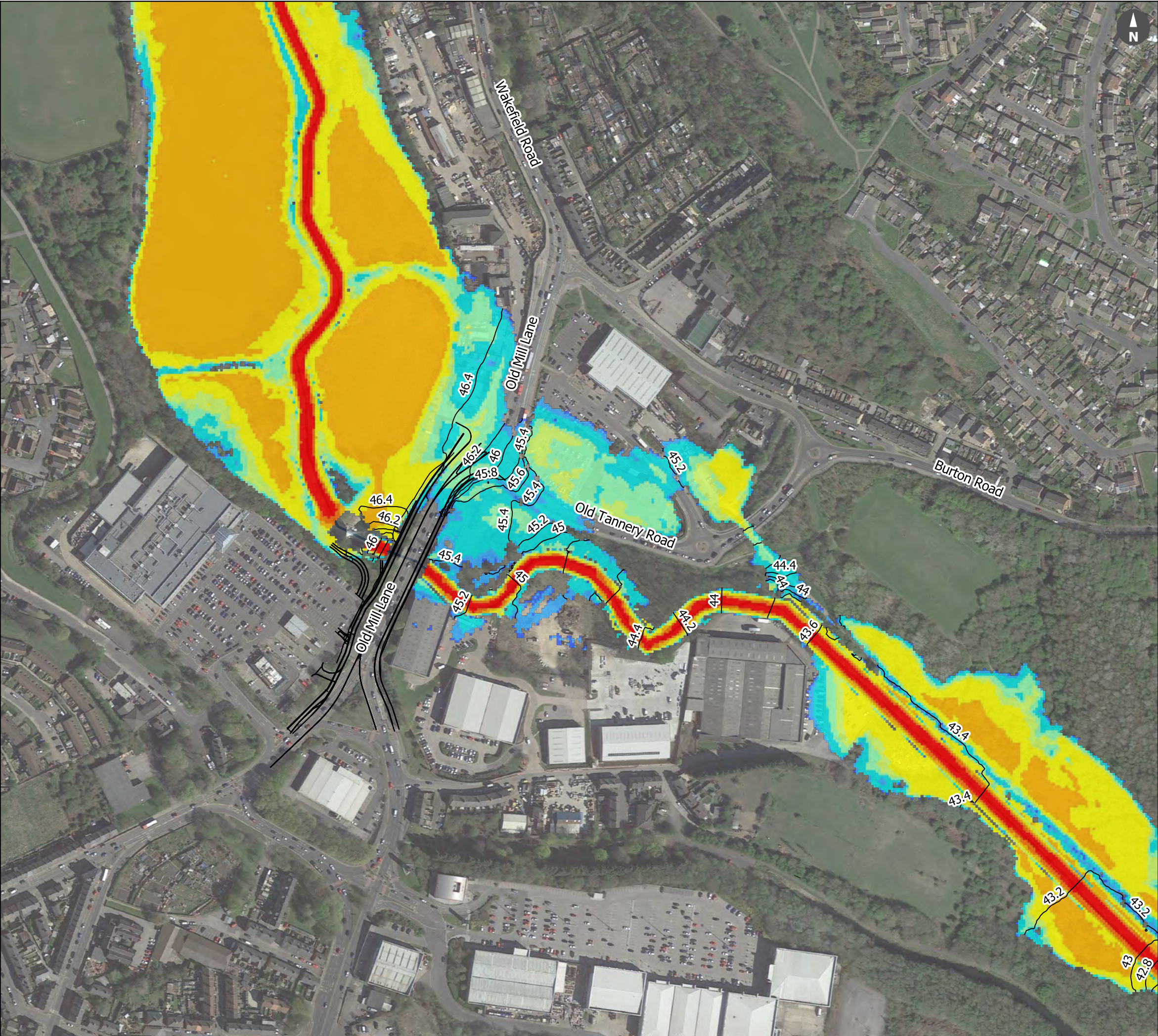
Client
**South Yorkshire
Passenger
Transport Executive**

Consultant
ARUP
Admiral House, Rose Wharf,
78 East Street, Leeds, LS9 8EE
Tel +44(0)113 242 8498

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Sources: Google Maps, CNES/Airbus, Landsat/Copernicus, Maxar Technologies



Legend

— Main River
— Proposed Design
— Waterlevel Contours (m AOD)

Depth (m)

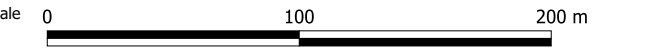
- < 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- >5

Project Title
A61 Bridge Replacement

Drawing Title
**Peak Water Depth
Design Scenario
1% AEP**

Job	253511-00	Figure	10
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Coordinate System	Drawing
British National Grid	Preliminary



A	16/09/21	TH	DA	CW
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Issue	Date	By	Chkd	Appd
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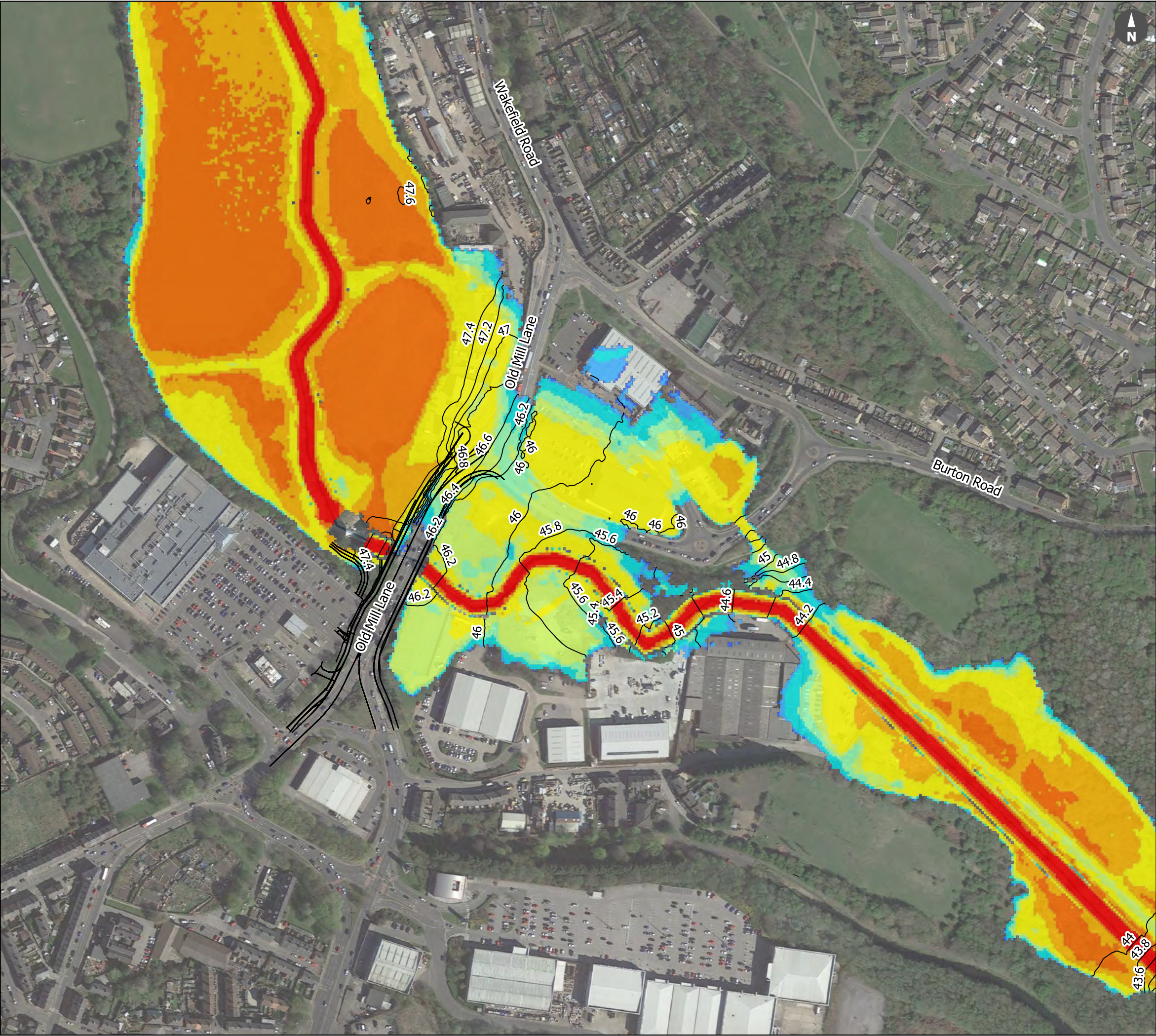
Client	Consultant
South Yorkshire Passenger Transport Executive	ARUP Admiral House, Rose Wharf, 78 East Street, Leeds, LS9 8EE Tel +44(0)113 242 8498

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Legend

Main River

Proposed Design

Waterlevel Contours (m AOD)

Depth (m)

< 0.1

0.1 - 0.2

0.2 - 0.5

0.5 - 0.75

0.75 - 1

1 - 2

2 - 3

3 - 4

>5

Project Title

A61 Bridge Replacement

Drawing Title

**Peak Water Depth
Design Scenario
1% AEP + CC**

Job

253511-00

Figure

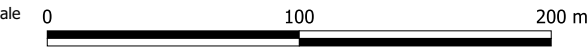
11

Coordinate System

British National Grid

Drawing

Preliminary



A	16/09/21	TH	DA	CW
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Issue	Date	By	Chkd	Appd
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Client

**South Yorkshire
Passenger
Transport Executive**

Consultant

ARUP

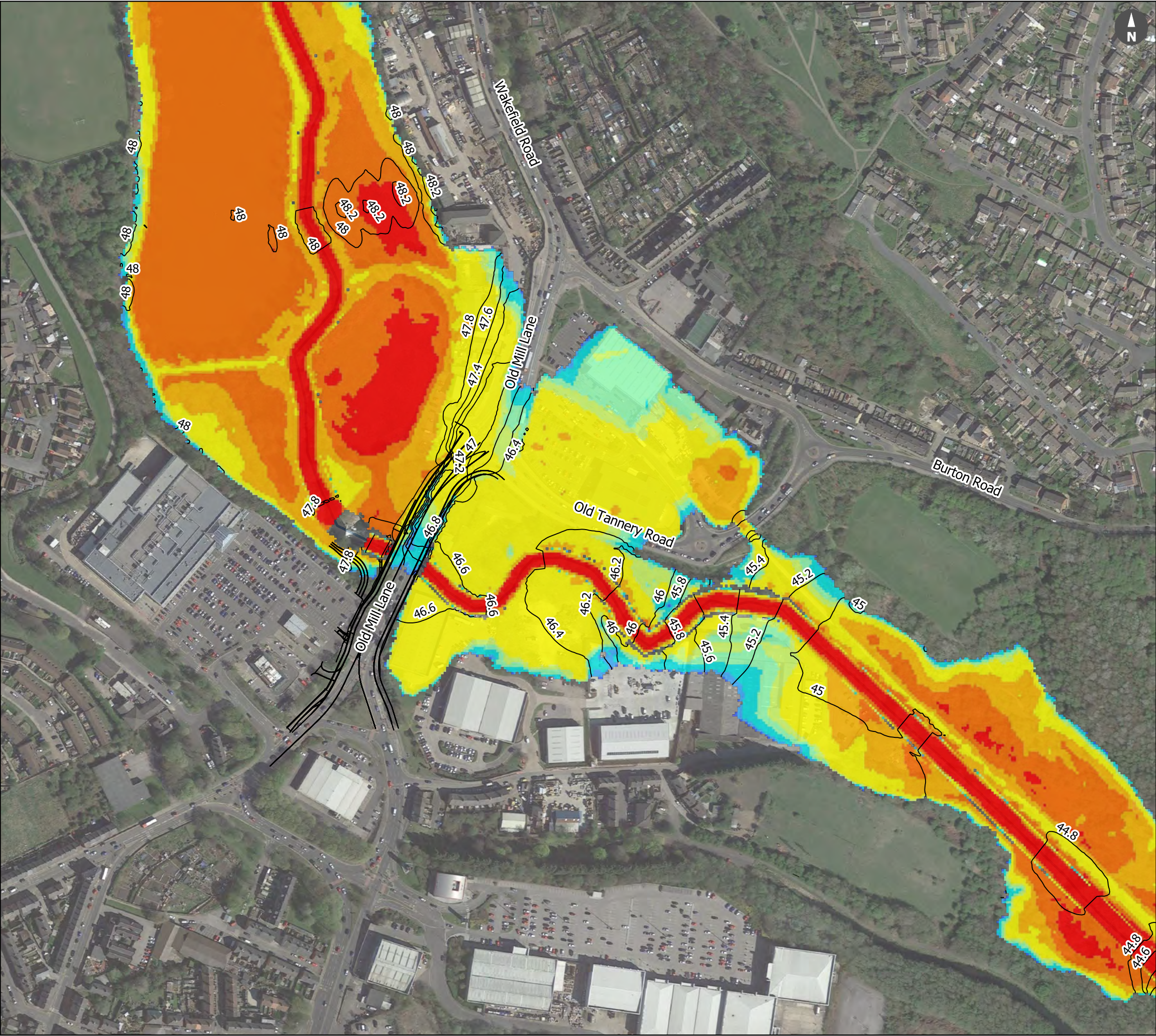
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Legend

— Main River
— Proposed Design
— Waterlevel Contours (m AOD)

Depth (m)

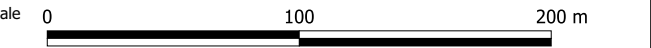
- < 0.1
- 0.1 - 0.2
- 0.2 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- >5

Project Title
A61 Bridge Replacement

Drawing Title
**Peak Water Depth
Design Scenario
0.1% AEP**

Job	Figure
253511-00	12

Coordinate System	Drawing
British National Grid	Preliminary



A	16/09/21	TH	DA	CW
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Issue	Date	By	Chkd	Appd
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Client	Consultant
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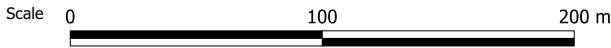
Legend

- Main River
- Proposed Design
- Change in Peak Water Level (m)
 - Was Wet, Now Dry
 - < - 0.5
 - 0.5 - -0.05
 - 0.05 - -0.01
 - 0.01 - 0.01
 - 0.01 - 0.015
 - 0.015 - 0.02
 - 0.02 - 0.03
 - 0.03 - 0.04
 - 0.04 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.25
 - 0.25 - 0.5
 - > 0.5
- Was Dry, Now Wet

Project Title
A61 Bridge Replacement

Drawing Title
**Peak Water Level Difference
Design Scenario
5% AEP**

Job	253511-00	Figure	13
Coordinate System	British National Grid	Drawing	Preliminary



A	16/09/21	TH	DA	CW
Issue	Date	By	Chkd	Appd

Client	Consultant
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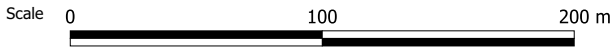
Legend

- Main River
- Proposed Design
- Change in Peak Water Level (m)
 - Was Wet, Now Dry
 - < - 0.5
 - 0.5 - -0.05
 - 0.05 - -0.01
 - 0.01 - 0.01
 - 0.01 - 0.015
 - 0.015 - 0.02
 - 0.02 - 0.03
 - 0.03 - 0.04
 - 0.04 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.25
 - 0.25 - 0.5
 - > 0.5
- Was Dry, Now Wet

Project Title
A61 Bridge Replacement

Drawing Title
**Peak Water Level Difference
Design Scenario
2% AEP**

Job	253511-00	Figure	14
Coordinate System	British National Grid	Drawing	Preliminary



A	16/09/21	TH	DA	CW
Issue	Date	By	Chkd	Appd

Client	Consultant
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Legend

Main River

Proposed Design

Change in Peak Water Level (m)

Was Wet, Now Dry

< - 0.5

- 0.5 - -0.05

-0.05 - -0.01

-0.01 - 0.01

0.01 - 0.015

0.015 - 0.02

0.02 - 0.03

0.03 - 0.04

0.04 - 0.05

0.05 - 0.1

0.1 - 0.25

0.25 - 0.5

> 0.5

Was Dry, Now Wet

Project Title

A61 Bridge Replacement

Drawing Title

**Peak Water Level Difference
Design Scenario
1% AEP**

Job

253511-00

Figure

15

Coordinate System

British National Grid

Drawing

Preliminary

Scale

0100200 m

A	16/09/21	TH	DA	CW
Issue	Date	By	Chkd	Appd

Client

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Transport Executive**

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Legend

- Main River
- Proposed Design
- Change in Peak Water Level (m)
 - Was Wet, Now Dry
 - < - 0.5
 - 0.5 - -0.05
 - 0.05 - -0.01
 - 0.01 - 0.01
 - 0.01 - 0.015
 - 0.015 - 0.02
 - 0.02 - 0.03
 - 0.03 - 0.04
 - 0.04 - 0.05
 - 0.05 - 0.1
 - 0.1 - 0.25
 - 0.25 - 0.5
 - > 0.5
 - Was Dry, Now Wet

Project Title
A61 Bridge Replacement

Drawing Title
**Peak Water Level Difference
Design Scenario
1% AEP + CC**

Job	253511-00	Figure	16
Coordinate System	British National Grid	Drawing	Preliminary
Scale	0 100 200 m		

A	16/09/21	TH	DA	CW
Issue	Date	By	Chkd	Appd

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