Outer Dowsing Offshore Wind

Noise Bund Hydraulic Modelling Report, Appendix C Figures (Part 2 of 4)
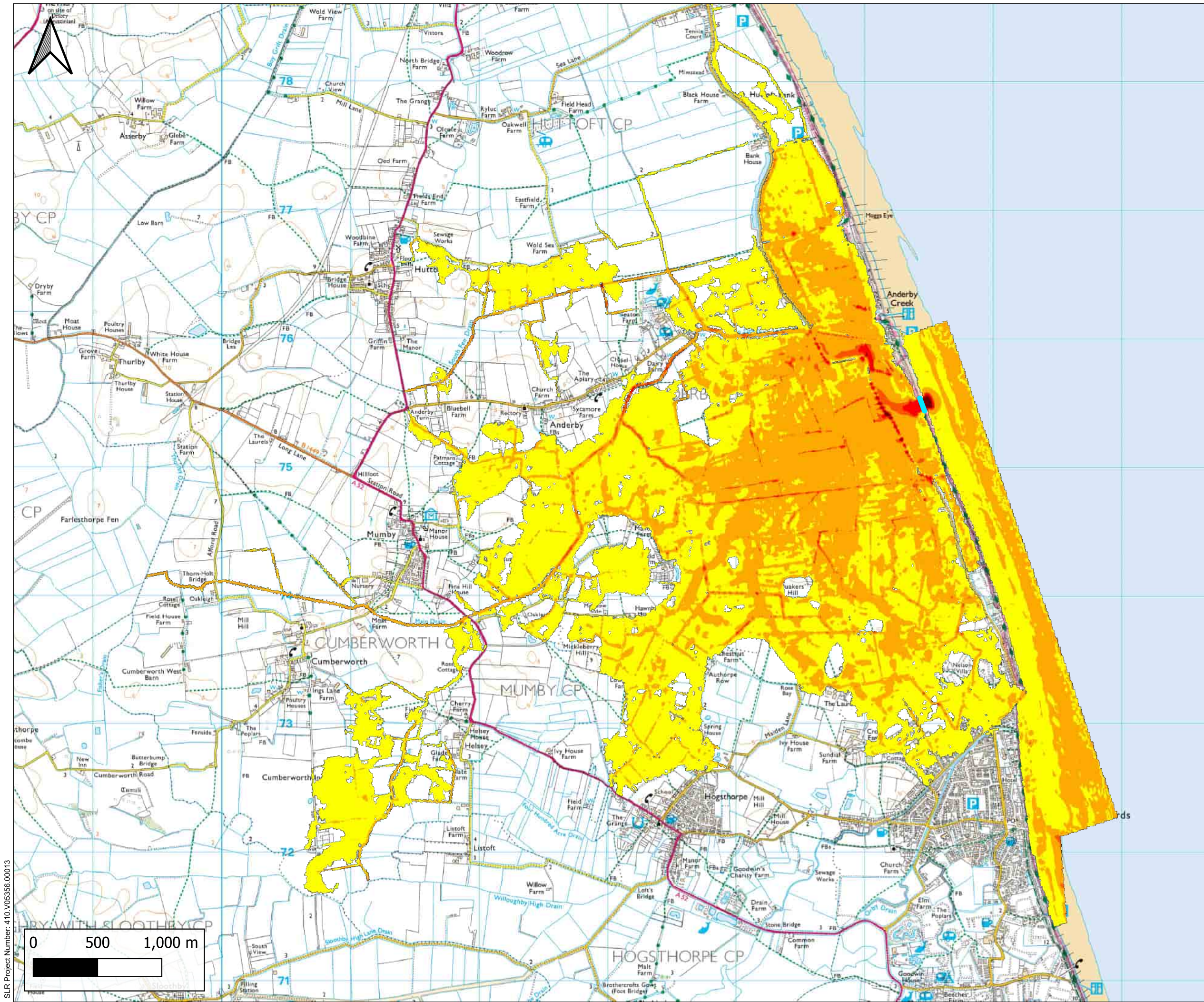
Deadline 4

Date: February 2025

Document Reference: 15.7A
Revision: 3.0

Company:	**Outer Dowsing Offshore Wind**		Asset:		**Whole Asset**
Project:	**Whole Wind Farm**		Sub Project/Package:		Whole Asset
Document Title or Description:	15.7 Noise Bund Hydraulic Modelling Report Appendix C Figures (Part 2 of 4)				
Internal Document Number:	PP1-ODOW-DEV-CS-REP-0223_03		3rd Party Doc No (If applicable):		N/A

Rev No.	Date	Status / Reason for Issue	Author	Checked by	Reviewed by	Approved by
1.0	September 2024	Procedural Deadline 19 September	SLR	Outer Dowsing	Shepherd & Wedderburn	Outer Dowsing
2.0	December 2024	EA Workshop	SLR	Outer Dowsing	Shepherd & Wedderburn	Outer Dowsing
3.0	February 2025	Deadline 4	SLR	Outer Dowsing	Shepherd & Wedderburn	Outer Dowsing

Legend

— Breach Location

Maximum Flood Velocity (m/s)

- 0 - 0.3
- 0.3 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
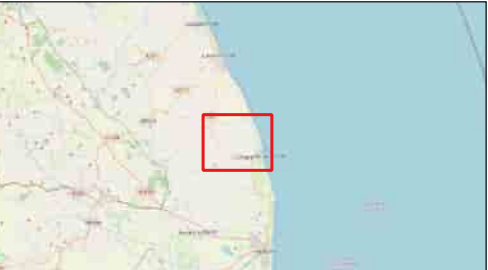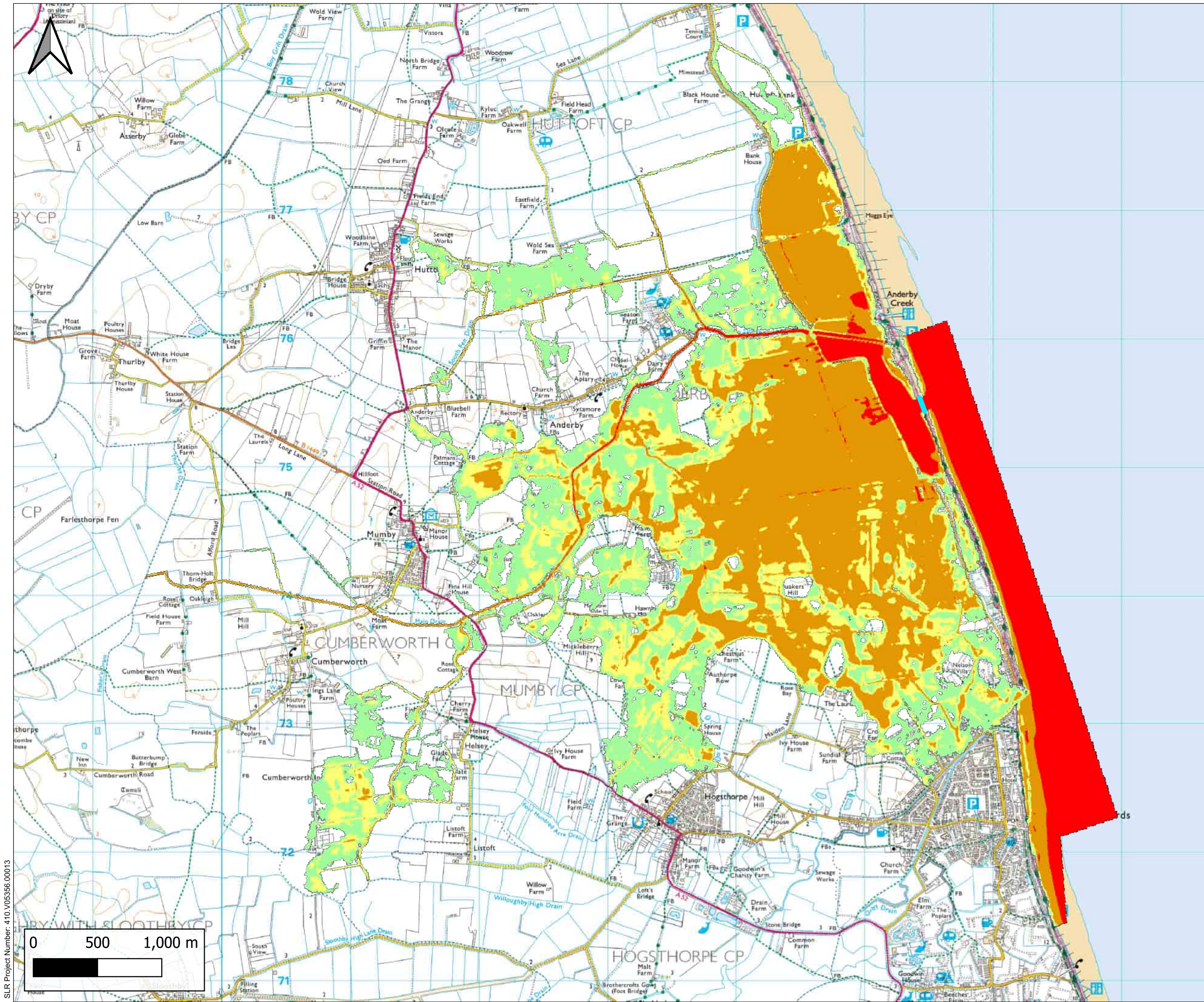
Figure No. 17

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

✳ **SLR**
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Velocity
0.1% AEP + CC Breach 1
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

SLR Project Number: 410.V05556.00013

Legend

— Breach Location

Flood Hazard Rating

- 🟩 0.00 - 0.75
- 🟨 0.75 - 1.25
- 🟧 1.25 - 2.00
- 🟥 Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
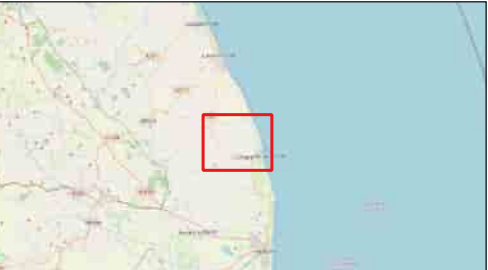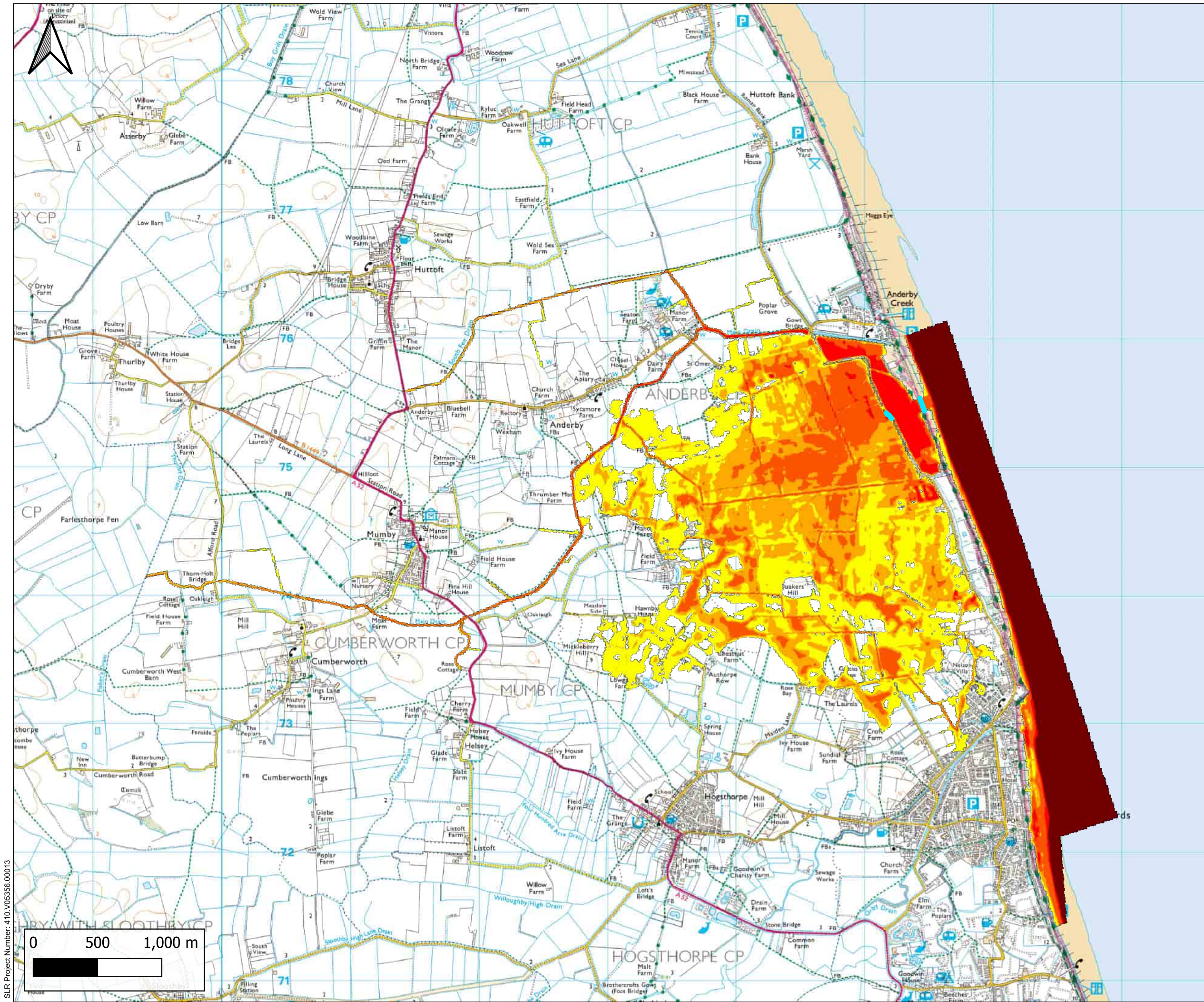
Figure No. 18

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

✳ SLR 6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Hazard
0.1% AEP + CC Breach 1
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

Legend

— Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
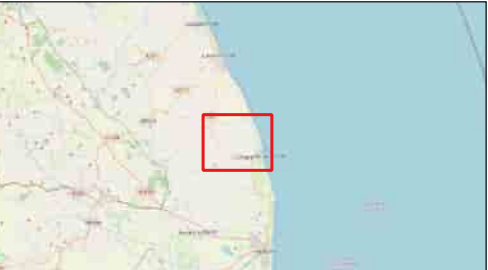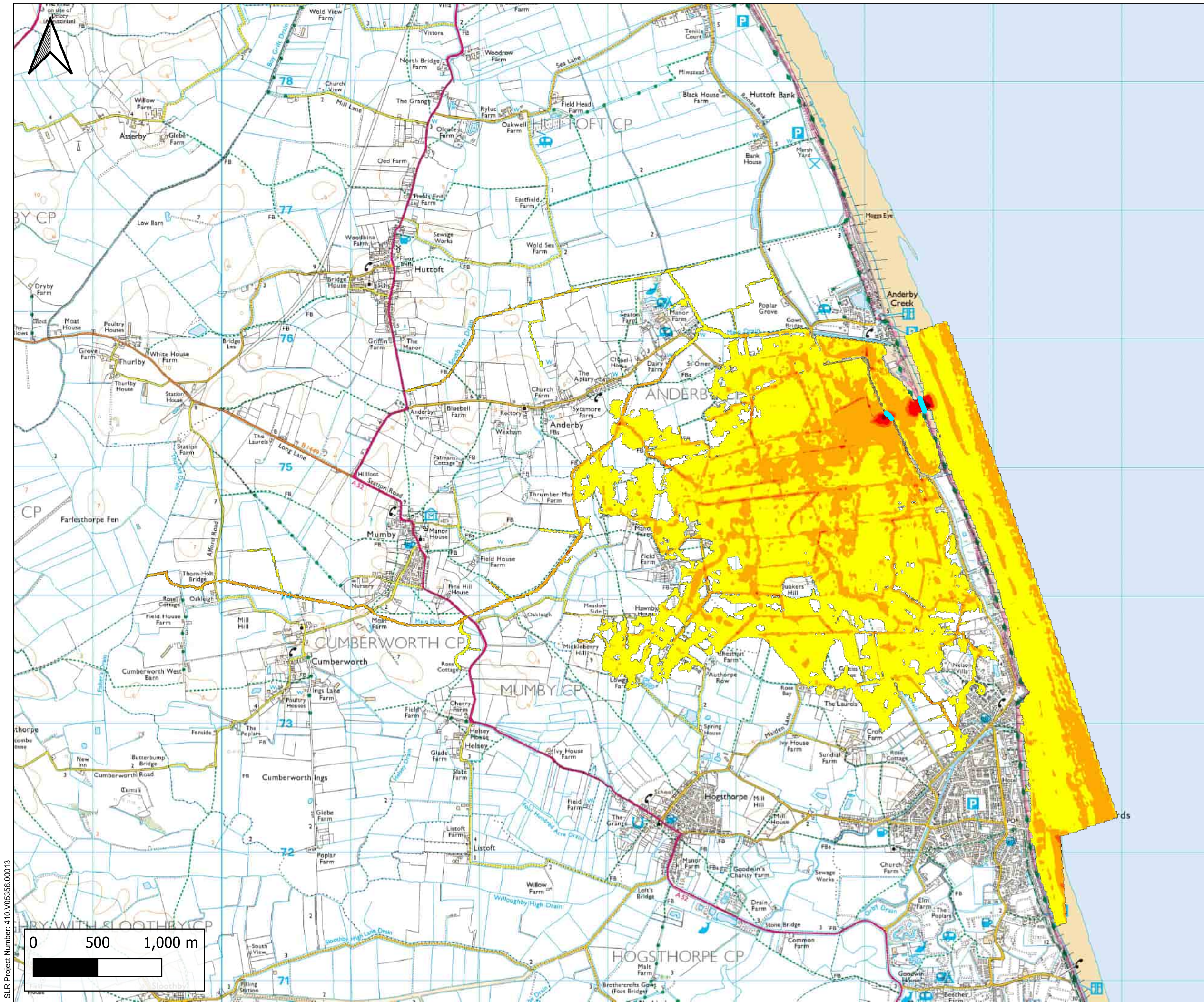
Figure No. 19

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Depths
0.5% AEP Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

SLR Project Number: 410.V05356.00013

© Crown Copyright and Database Rights (OS OpenData 2024)

© This drawing and its contents are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission. SLR Consulting Ltd accepts no liability for any amendments made by other persons

Legend

Breach Location

Maximum Flood Velocity (m/s)

- 0 - 0.3
- 0.3 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
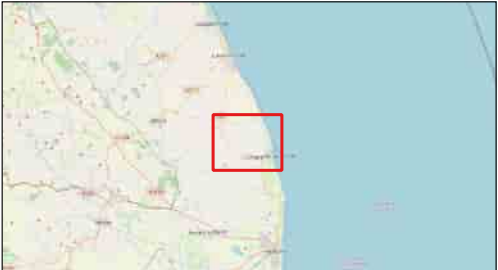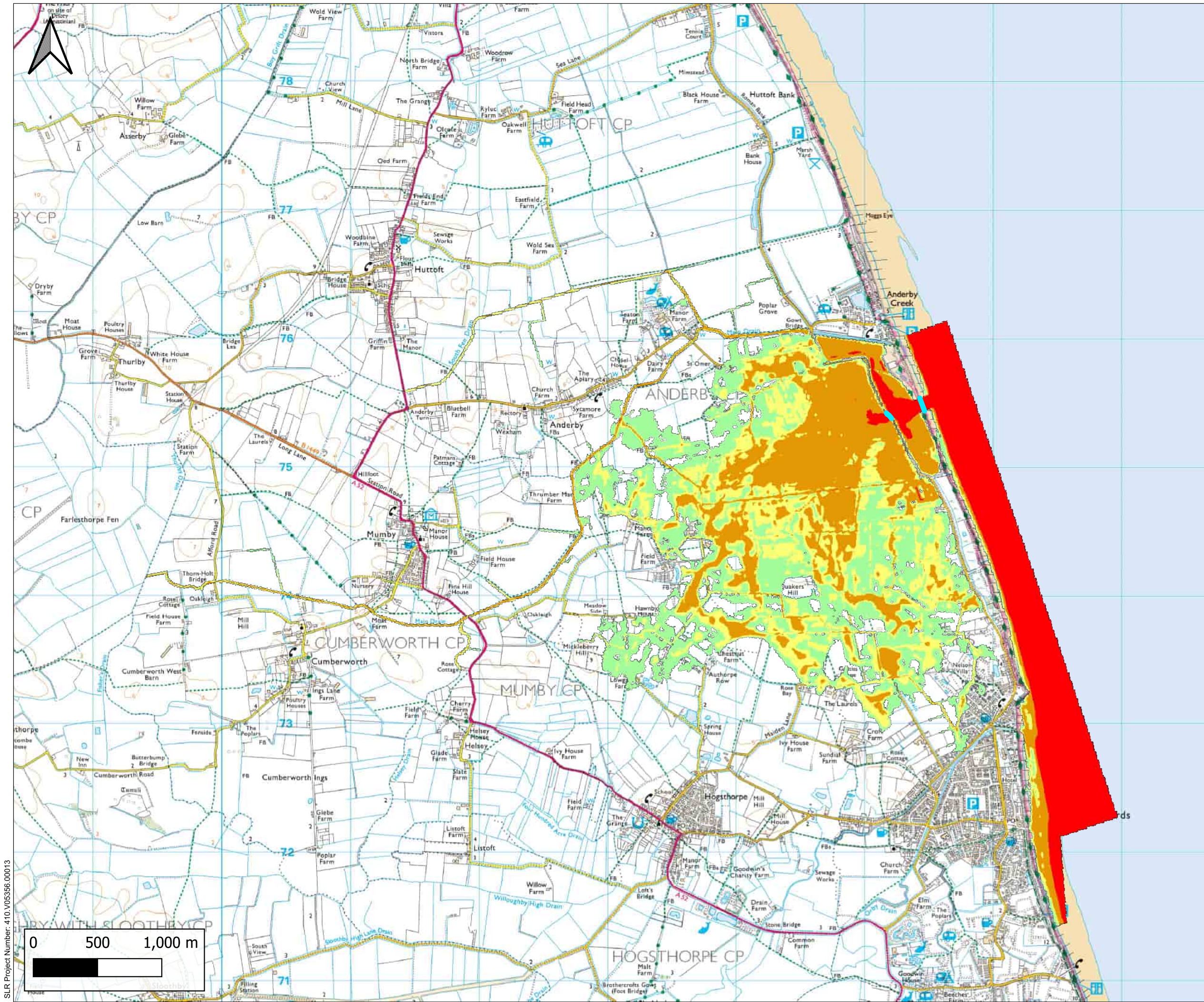
Figure No. 20

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

Maximum Flood Velocity
0.5% AEP Breach 2
Baseline Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

0   500   1,000 m

Legend

— Breach Location

Flood Hazard Rating

- 0.00 - 0.75
- 0.75 - 1.25
- 1.25 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
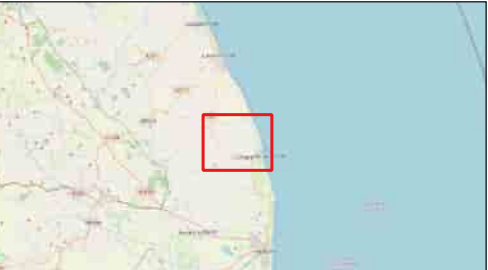
Figure No. 21

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Hazard
0.5% AEP Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

Legend

― Breach Location

Maximum Flood Depth (m)

- ☐ 0.00 - 0.25
- ☐ 0.25 - 0.50
- ☐ 0.50 - 1.00
- ☐ 1.00 - 2.00
- ☐ Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
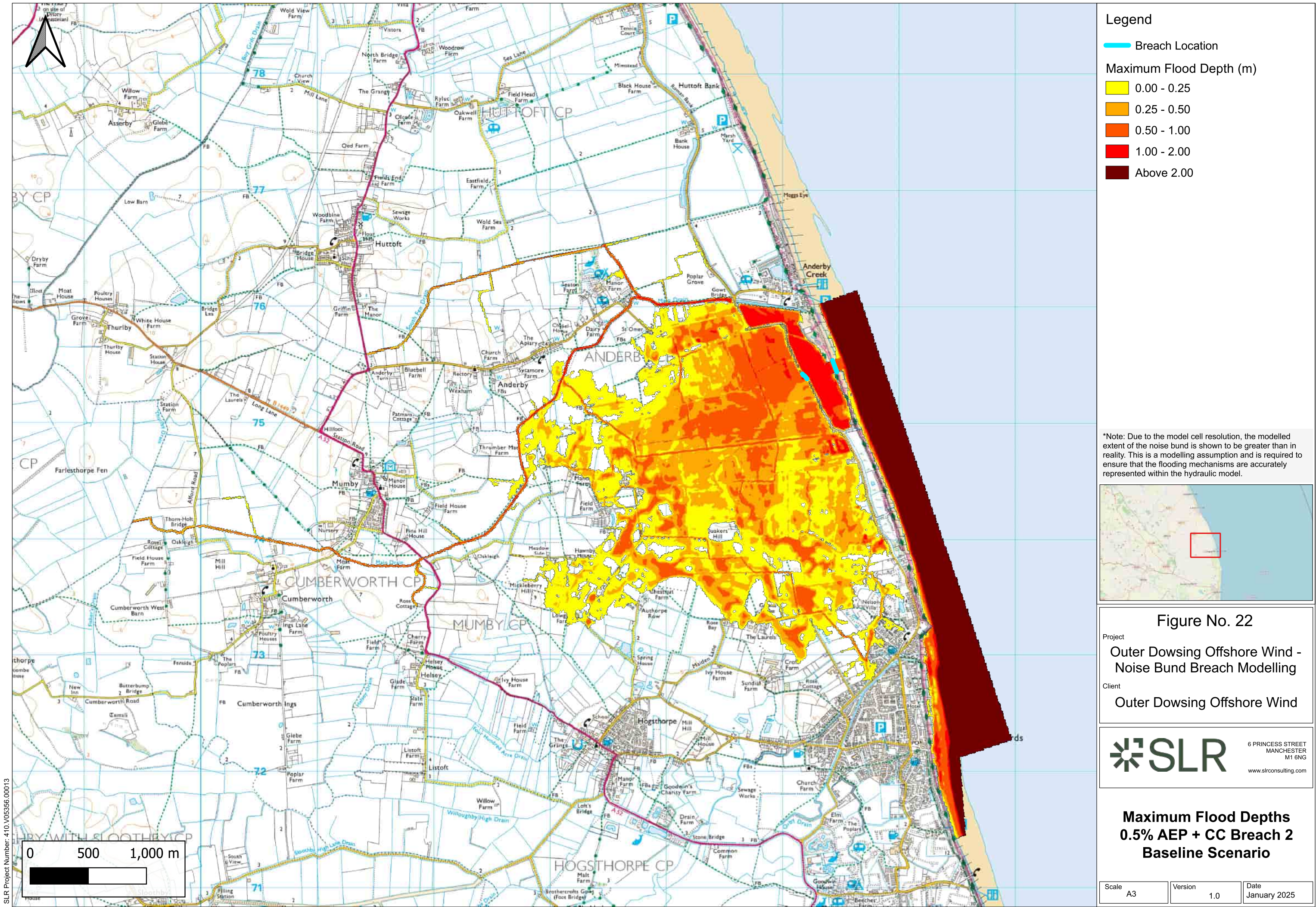
Figure No. 22

Project

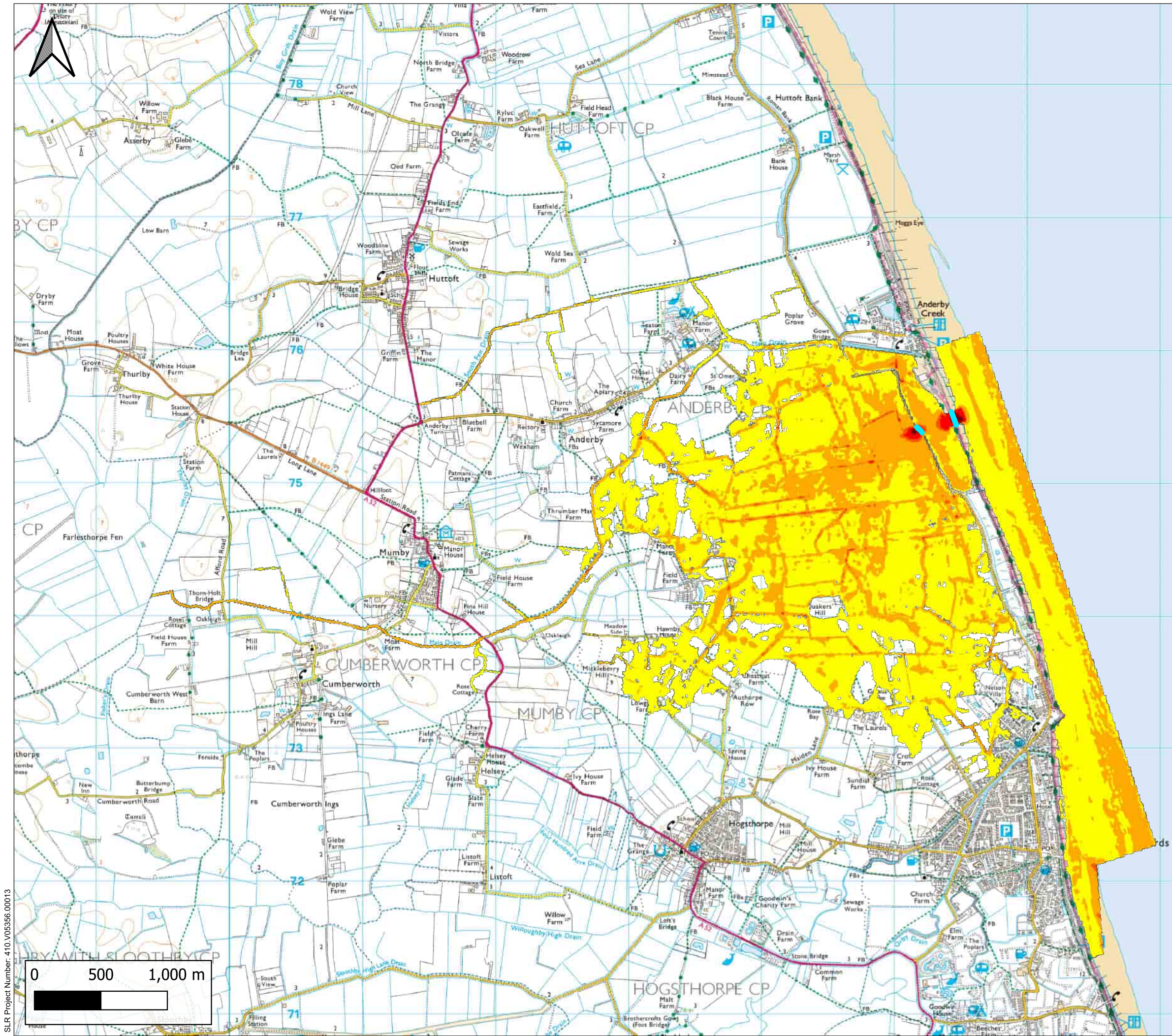**Outer Dowsing Offshore Wind - Noise Bund Breach Modelling**

Client

Outer Dowsing Offshore Wind

✷ SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

www.slrconsulting.com

**Maximum Flood Depths
0.5% AEP + CC Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

Legend

— Breach Location

Maximum Flood Velocity (m/s)

- 0 - 0.3
- 0.3 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
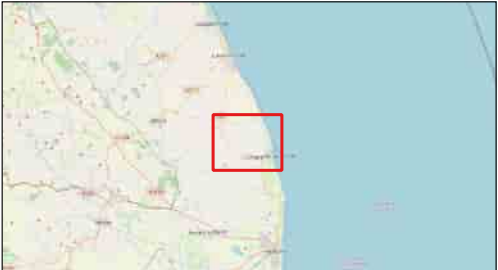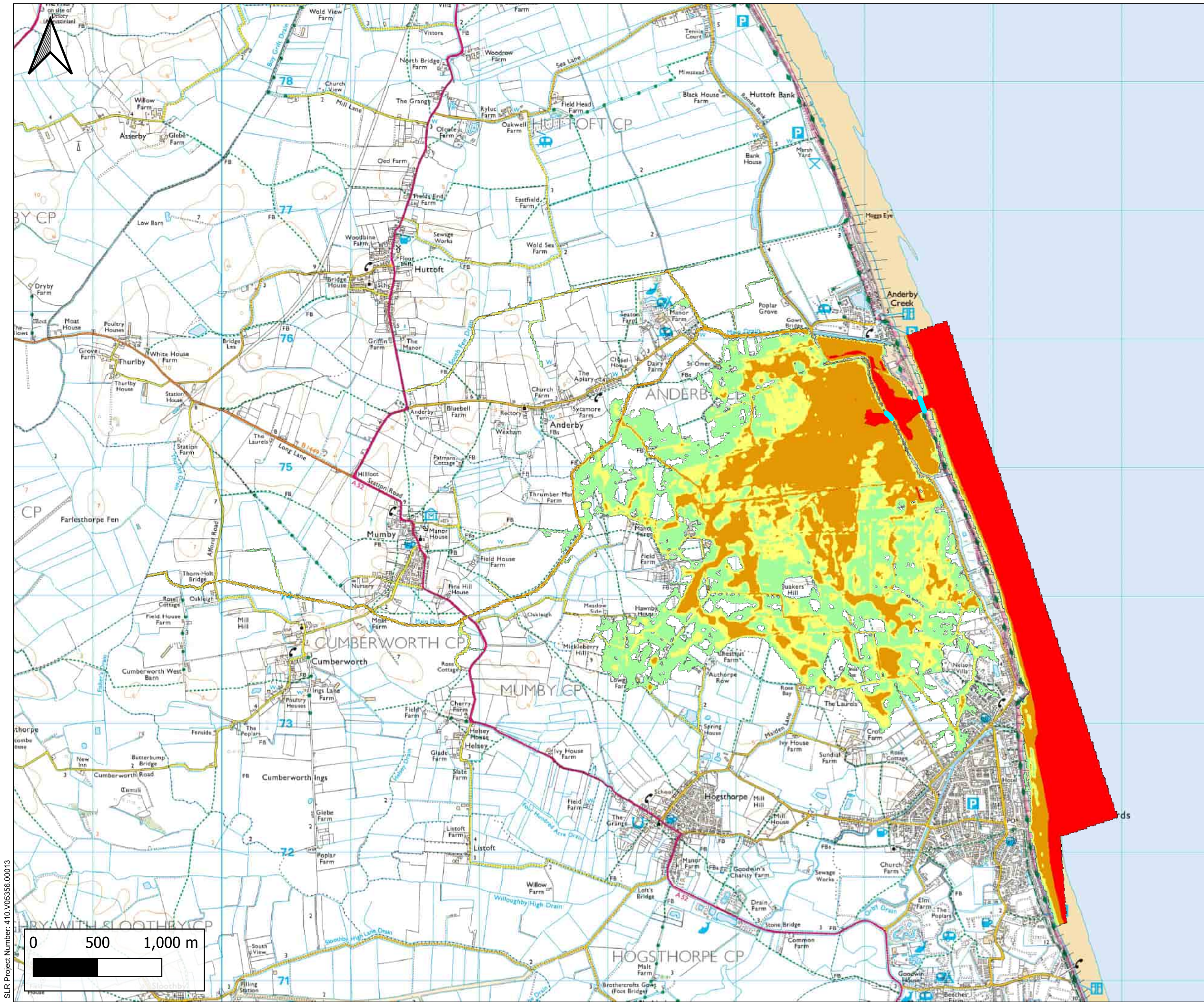
Figure No. 23

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

www.slrconsulting.com

**Maximum Flood Velocity
0.5% AEP + CC Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

SLR Project Number: 410.V05556.00013

© Crown Copyright and Database Rights (OS OpenData 2024)

© This drawing and its contents are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission. SLR Consulting Ltd accepts no liability for any amendments made by other persons

Legend

Breach Location

Flood Hazard Rating
- 0.00 - 0.75
- 0.75 - 1.25
- 1.25 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
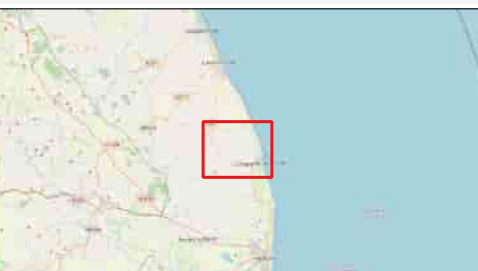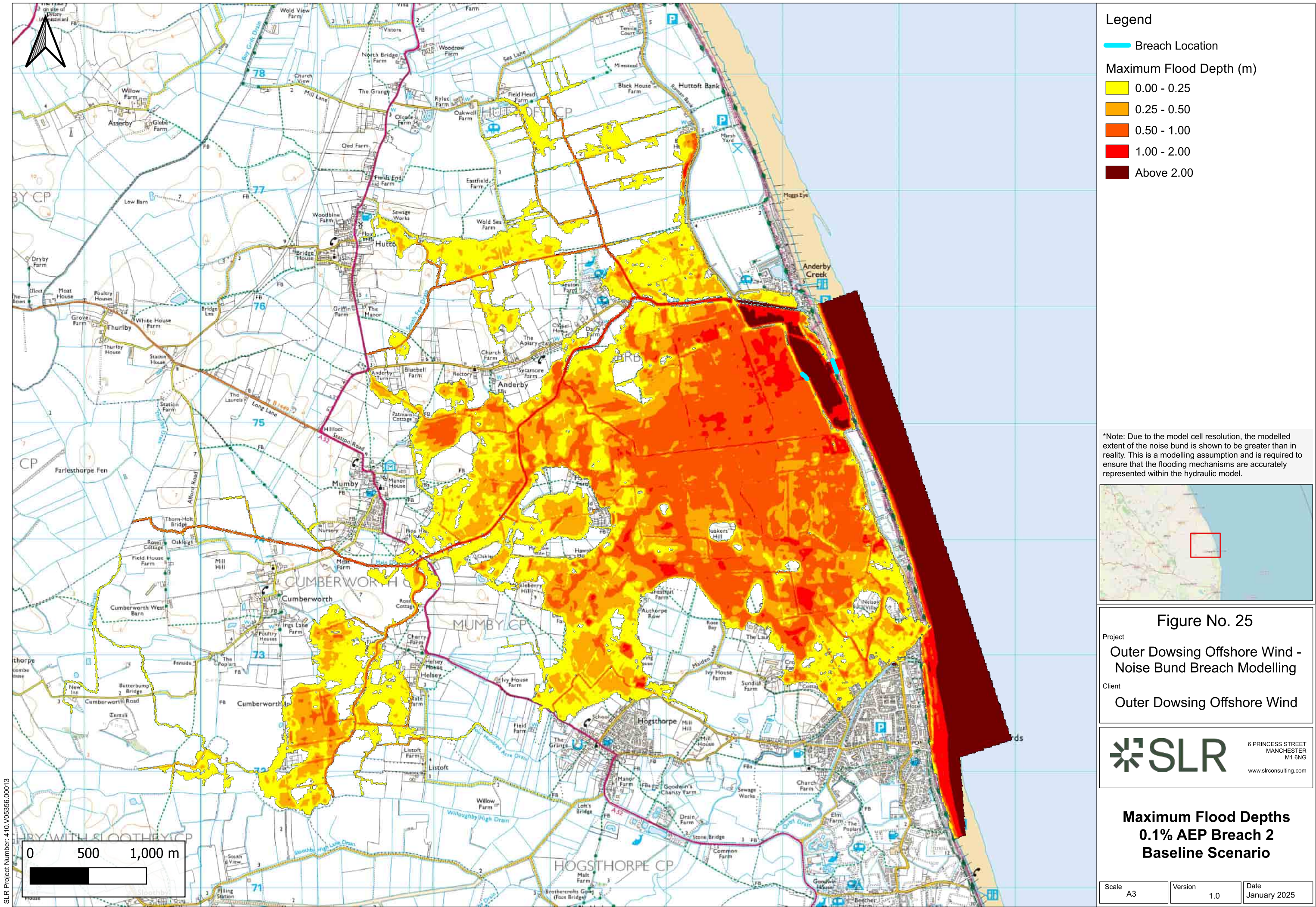
Figure No. 24

Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client
Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Hazard
0.5% AEP + CC Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05556.00013

Legend

Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
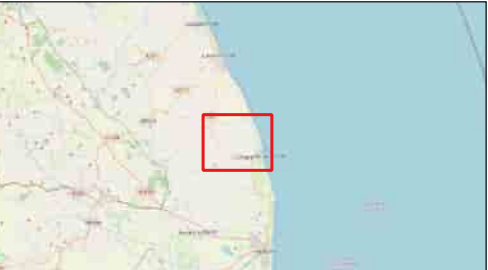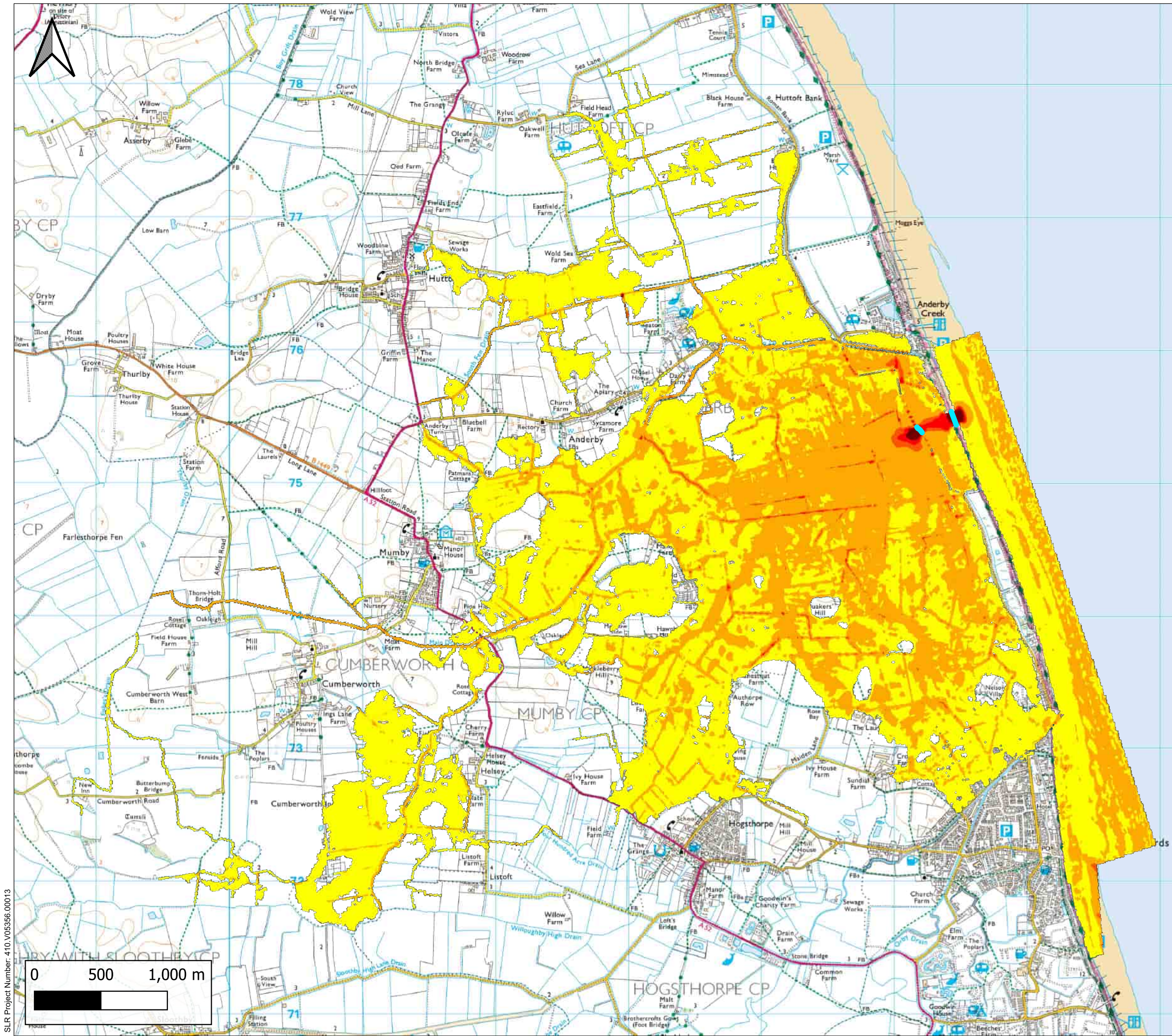
Figure No. 25

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

✳ SLR   6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

Maximum Flood Depths
0.1% AEP Breach 2
Baseline Scenario

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

SLR Project Number: 410.V05356.00013

Legend

— Breach Location

Maximum Flood Velocity (m/s)
- ▨ 0 - 0.3
- ▨ 0.3 - 1.0
- ▨ 1.0 - 1.5
- ▨ 1.5 - 2.5
- ▨ Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
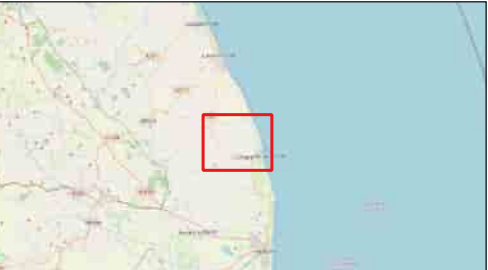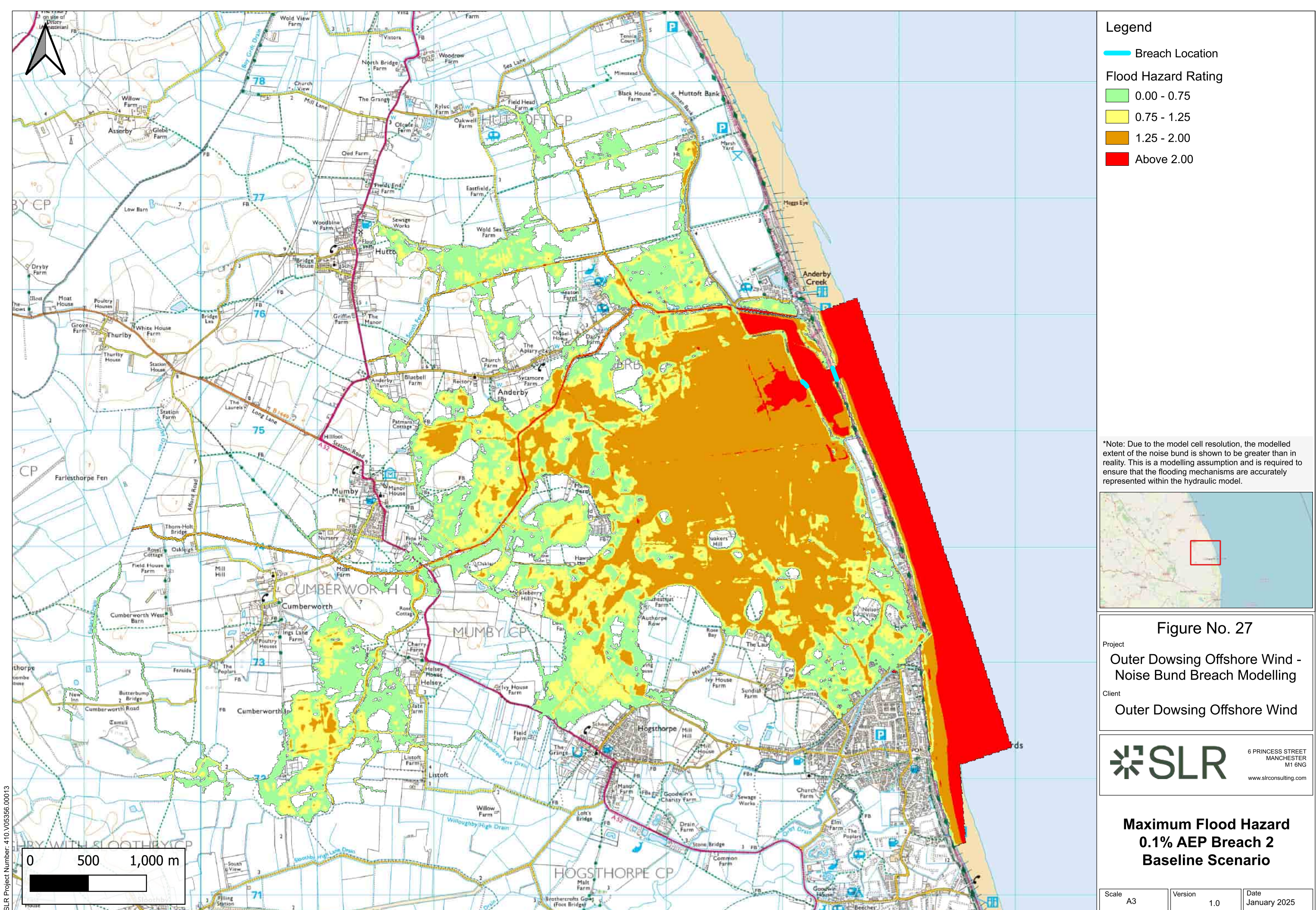
Figure No. 26

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

✳ SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

www.slrconsulting.com

**Maximum Flood Velocity
0.1% AEP Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05556.00013

0   500   1,000 m

Legend

Breach Location

Flood Hazard Rating
- 0.00 - 0.75
- 0.75 - 1.25
- 1.25 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
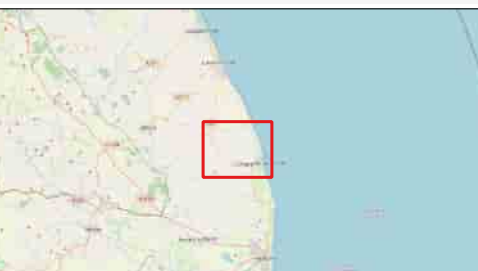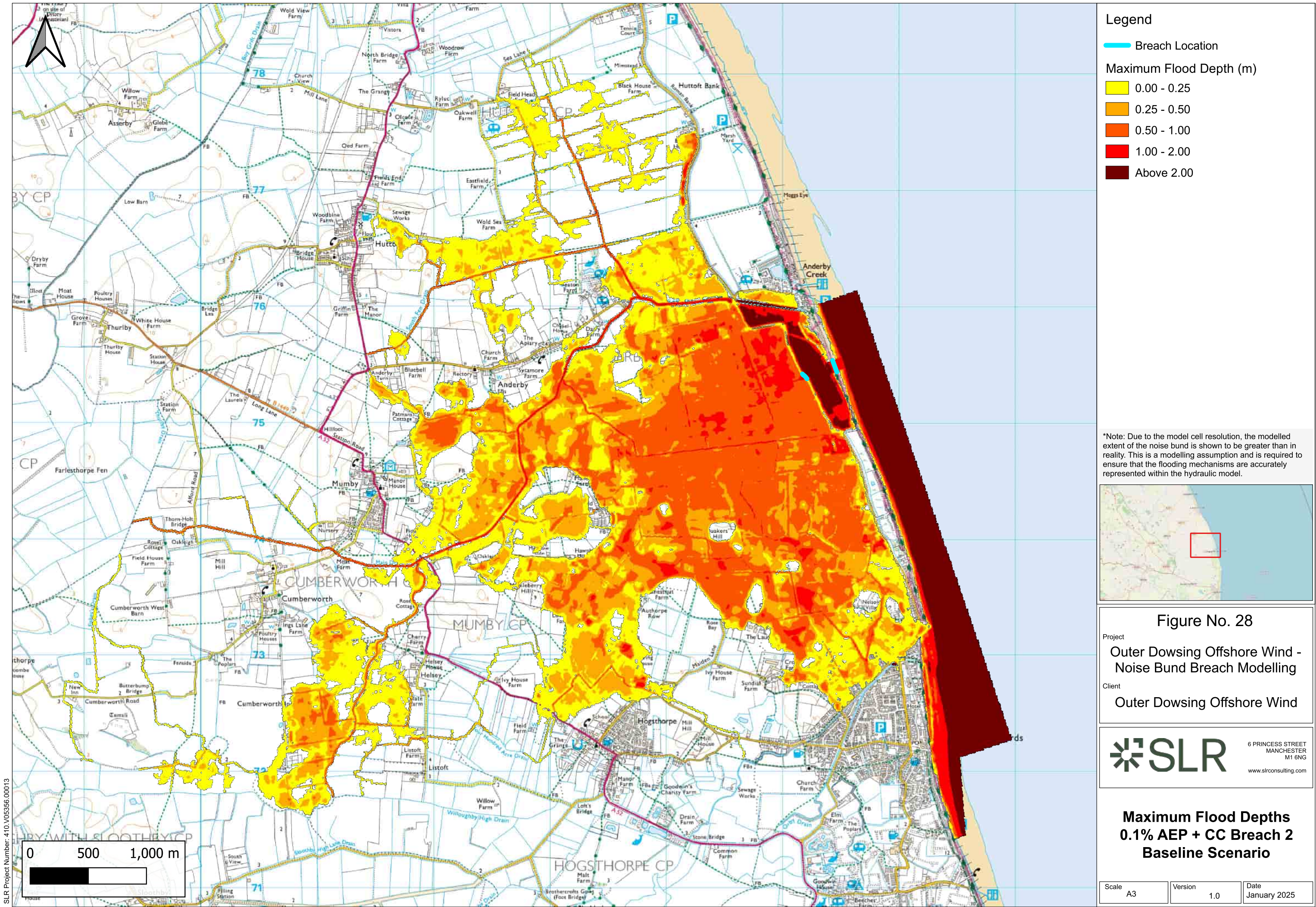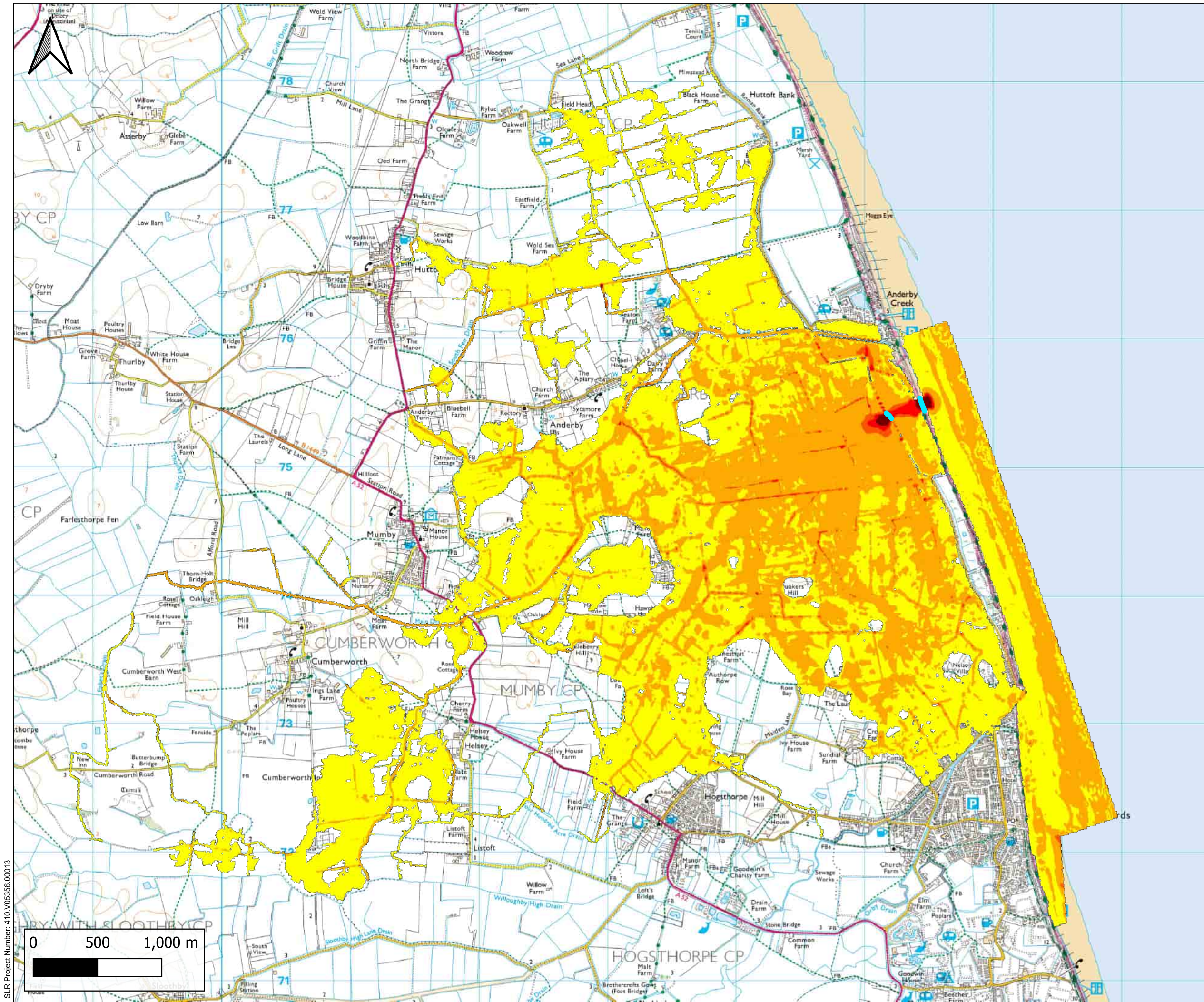
Figure No. 27

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Hazard
0.1% AEP Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

Legend

— Breach Location

Maximum Flood Depth (m)
- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
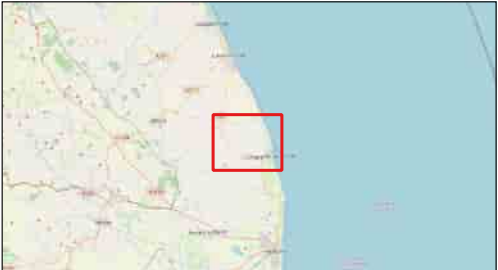
Figure No. 28

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

⁂ SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

www.slrconsulting.com

**Maximum Flood Depths
0.1% AEP + CC Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

SLR Project Number: 410.V05556.00013

Legend

— Breach Location

Maximum Flood Velocity (m/s)

- ▢ 0 - 0.3
- ▢ 0.3 - 1.0
- ▢ 1.0 - 1.5
- ▢ 1.5 - 2.5
- ▢ Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
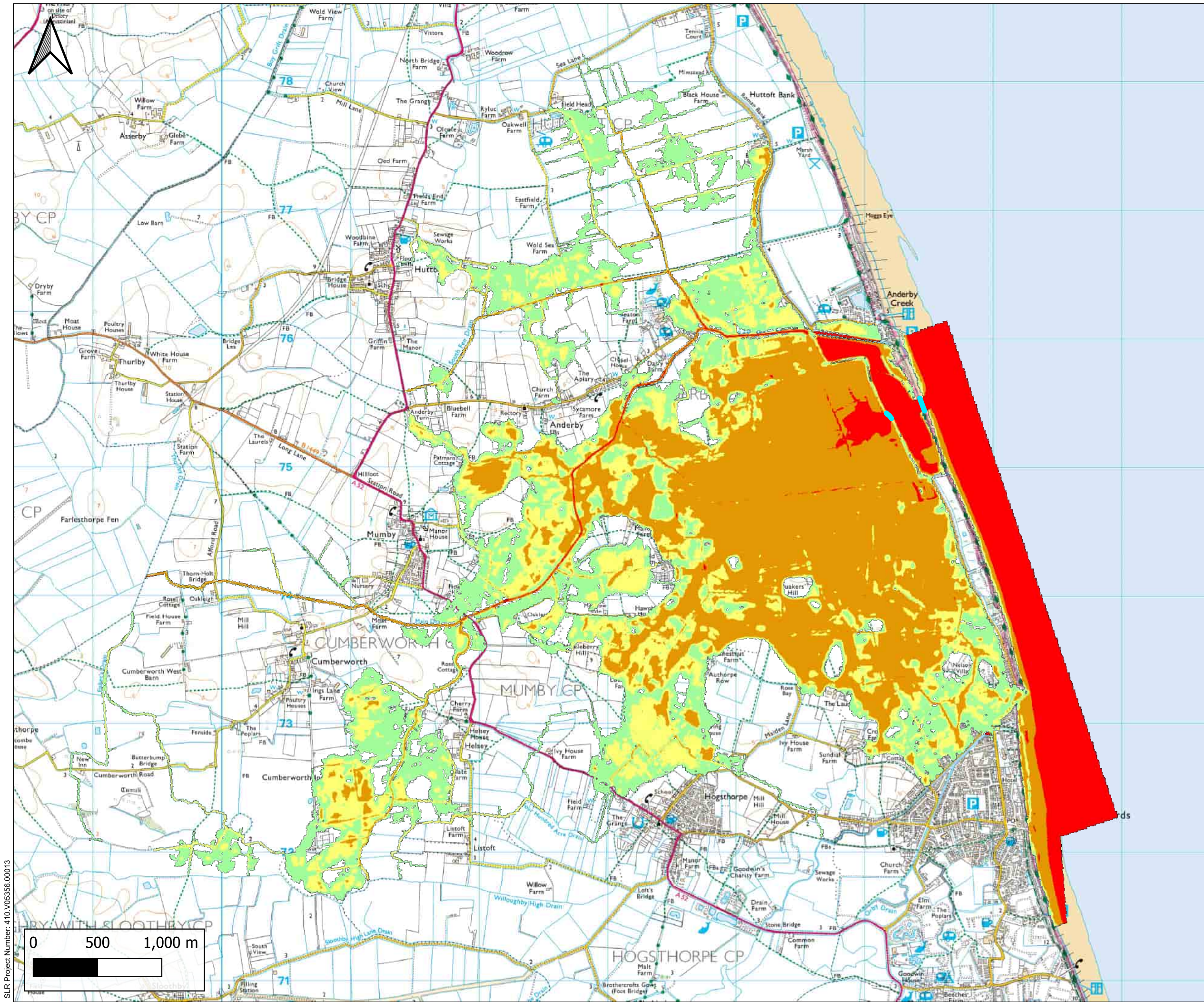
Figure No. 29

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Velocity
0.1% AEP + CC Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

Legend

Breach Location

Flood Hazard Rating
- 0.00 - 0.75 (green)
- 0.75 - 1.25 (yellow)
- 1.25 - 2.00 (orange)
- Above 2.00 (red)

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
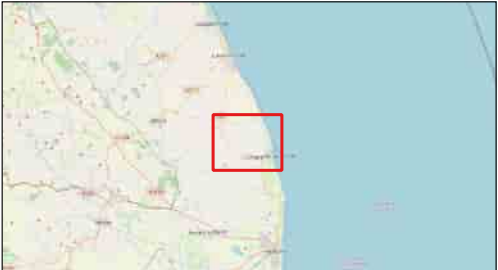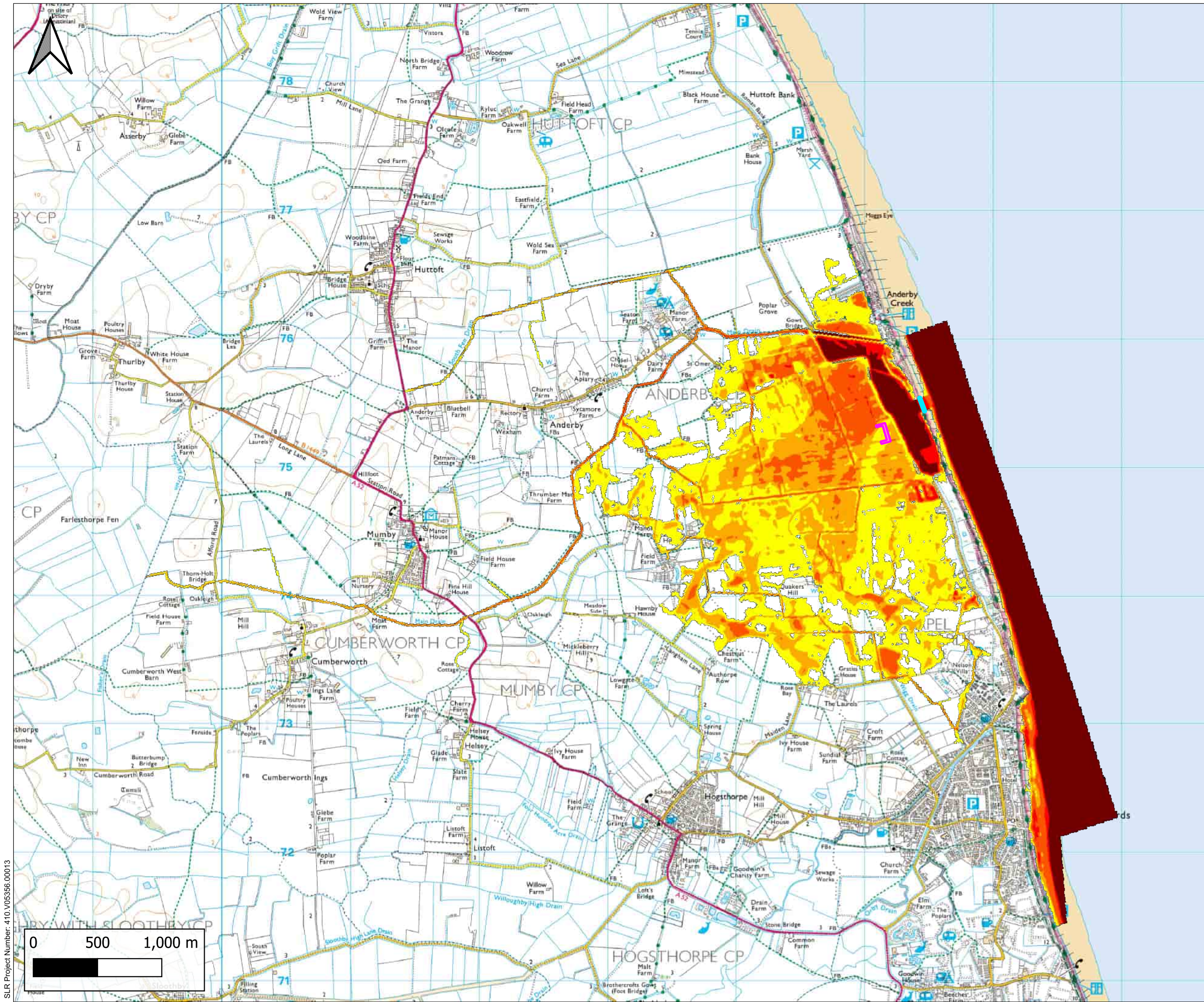
Figure No. 30

Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client
Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Hazard
0.1% AEP + CC Breach 2
Baseline Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

SLR Project Number: 410.V05556.00013

© Crown Copyright and Database Rights (OS OpenData 2024)

© This drawing and its contents are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission. SLR Consulting Ltd accepts no liability for any amendments made by other persons

Legend

— Breach Location

▭ Proposed Noise Bund

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
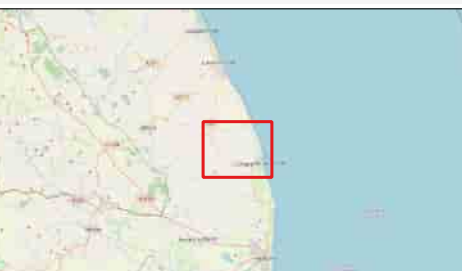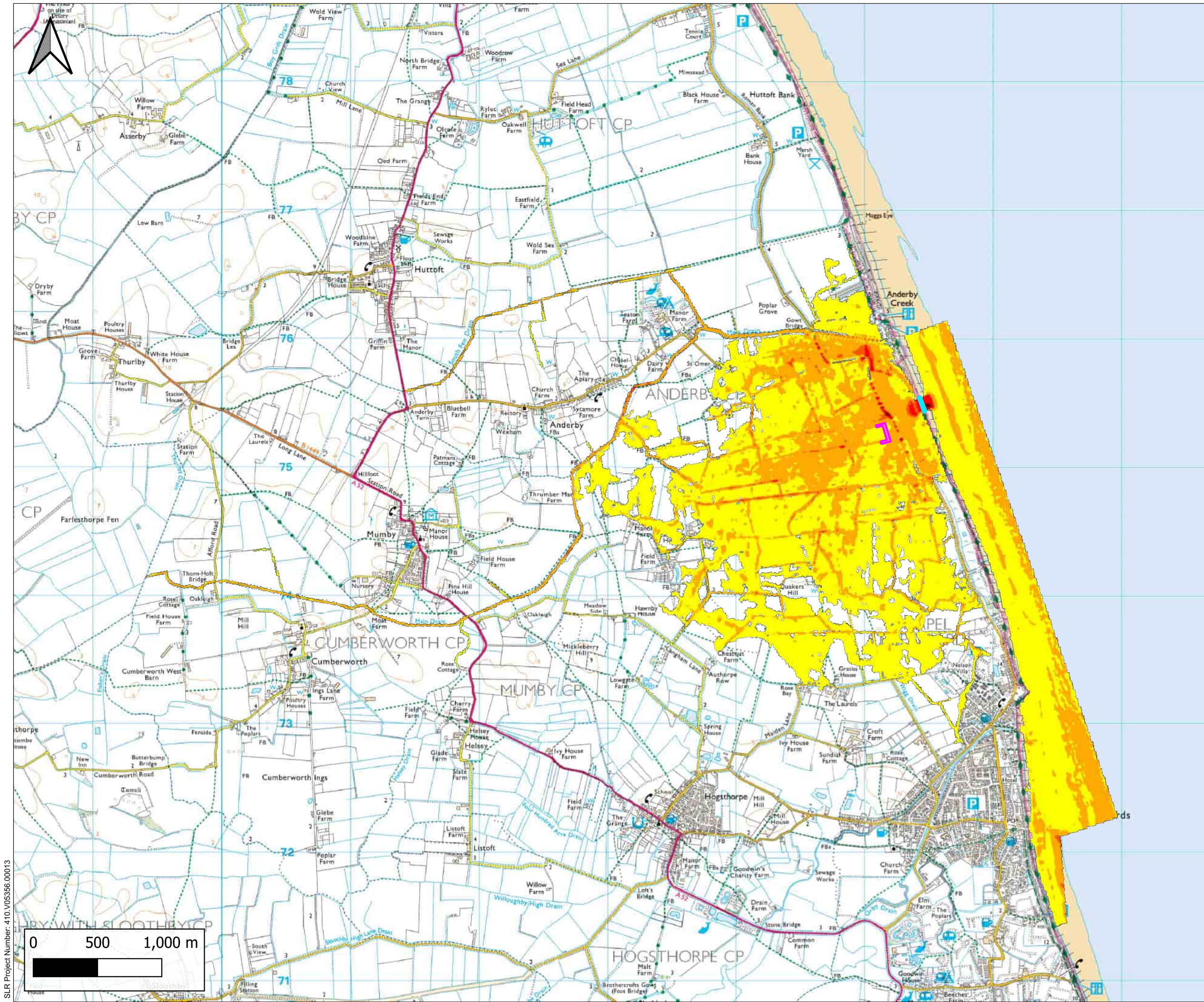
Figure No. 31

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Depths
0.5% AEP Breach 1
Proposed Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

SLR Project Number: 410.V05356.00013

Legend

— Breach Location (cyan line)

▮ Proposed Noise Bund (magenta)

Maximum Flood Depth (m)

- ▮ 0 - 0.3
- ▮ 0.3 - 1.0
- ▮ 1.0 - 1.5
- ▮ 1.5 - 2.5
- ▮ Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
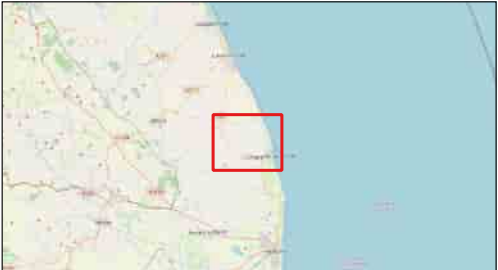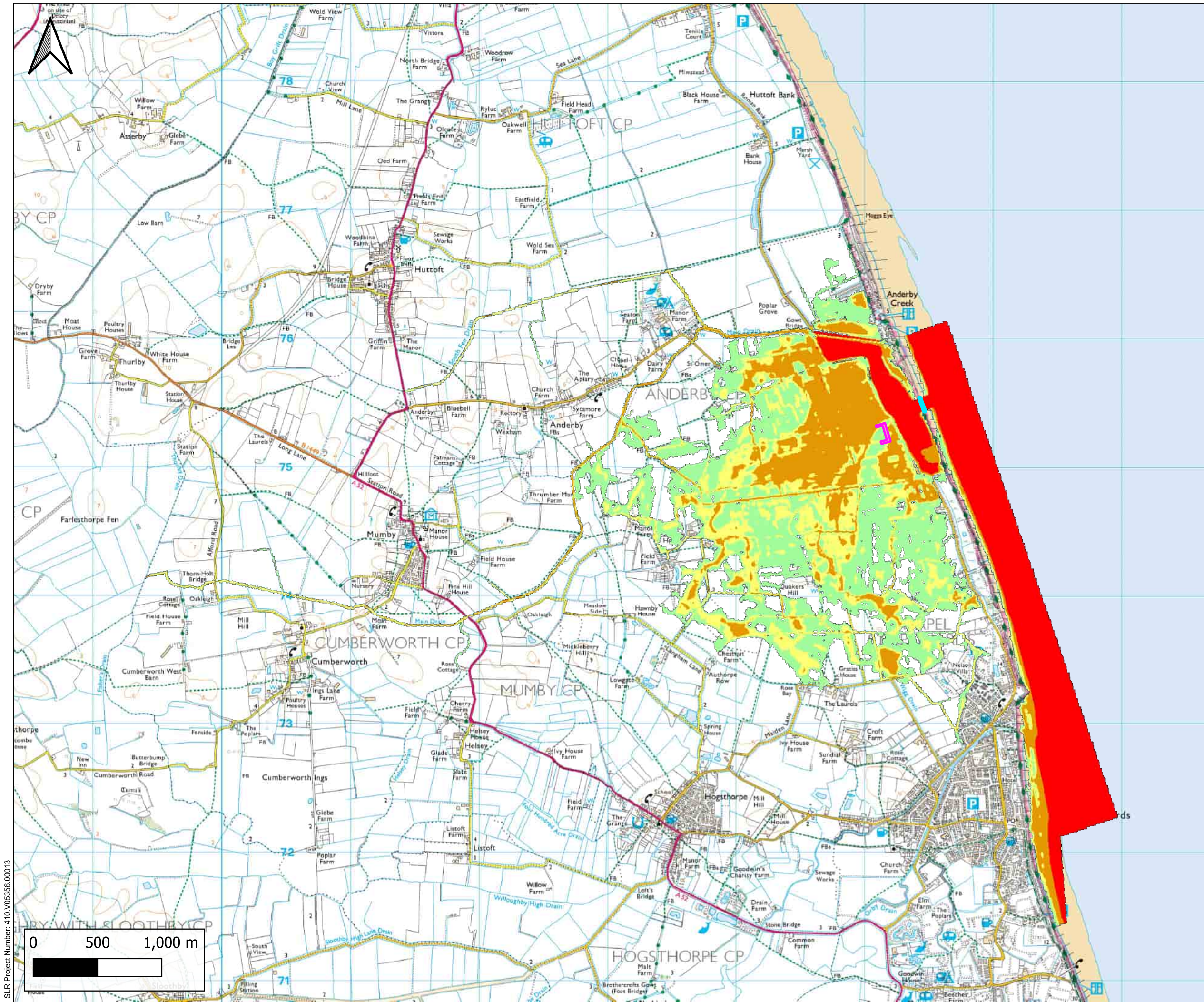
Figure No. 32

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

✳ **SLR**

6 PRINCESS STREET
MANCHESTER
M1 6NG

www.slrconsulting.com

**Maximum Flood Velocity
0.5% AEP Breach 1
Proposed Scenario**

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

© Crown Copyright and Database Rights (OS OpenData 2024)

© This drawing and its contents are the copyright of SLR Consulting Ltd and may not be reproduced or amended except by prior written permission. SLR Consulting Ltd accepts no liability for any amendments made by other persons

Legend

Breach Location

Proposed Noise Bund

Flood Hazard Rating

- 0.00 - 0.75
- 0.75 - 1.25
- 1.25 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
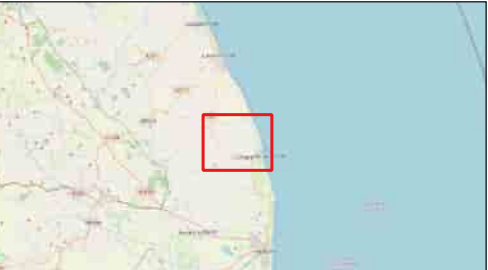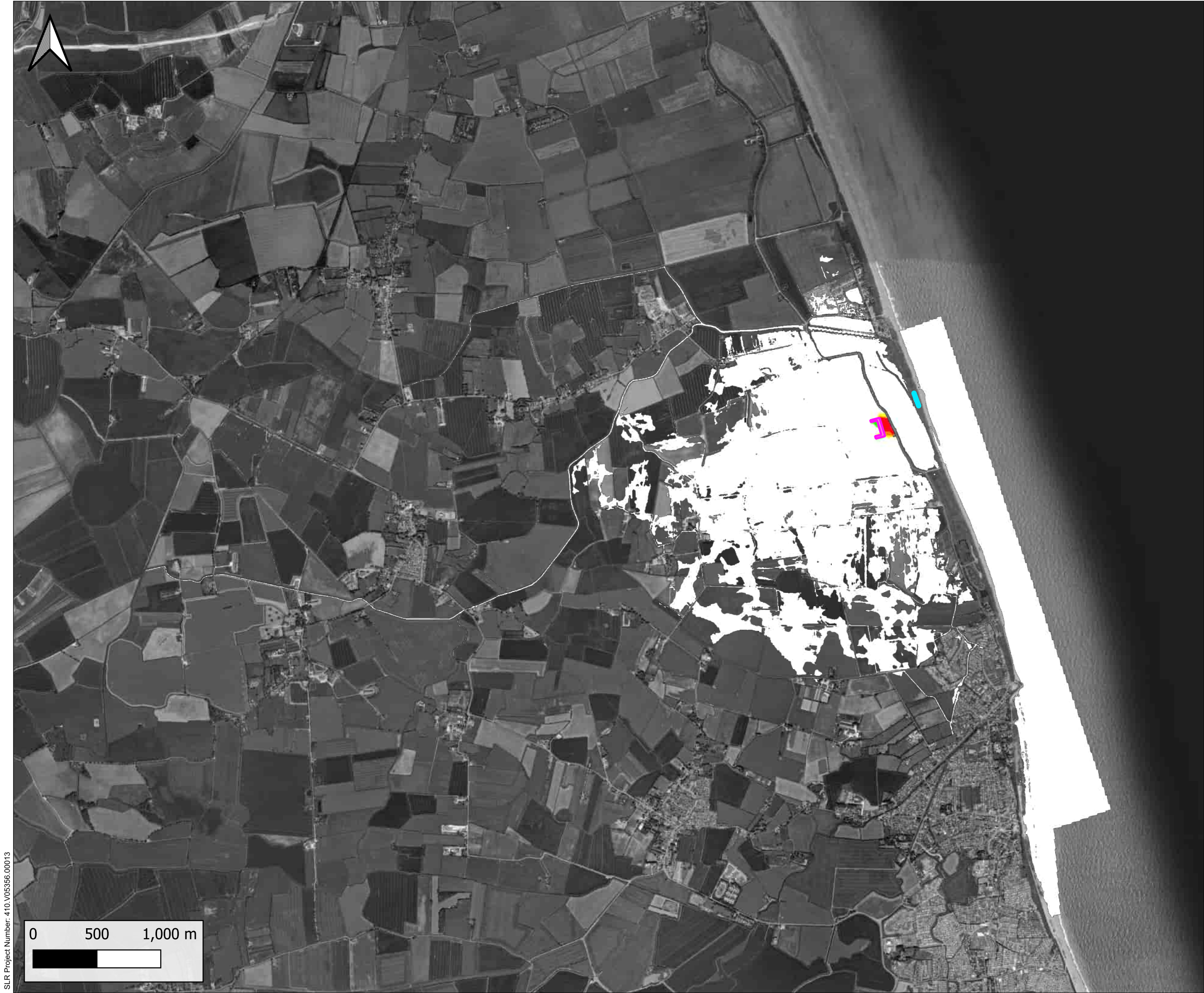
Figure No. 33

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Hazard
0.5% AEP Breach 1
Proposed Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

SLR Project Number: 410.V05556.00013

Legend

— Breach Location

▮ Proposed Noise Bund

Difference in Depth (m)

- ▮ <= -0.01
- ▮ -0.01 - 0.01
- ▮ 0.01 - 0.03
- ▮ 0.03 - 0.05
- ▮ 0.05 - 0.15

Change in Condition

- ▮ Was wet, now dry
- ▮ Was dry, now wet

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

Figure No. 34

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

✳ SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

www.slrconsulting.com

**Flood Depth Difference
0.5% AEP Breach 1
Proposed Scenario**

Scale	Version	Date
A3	1.0	January 2025

0   500   1,000 m

Legend

- — Breach Location
- ▭ Proposed Noise Bund

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.
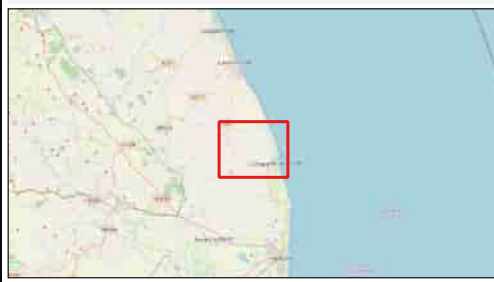
Figure No. 35

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR
6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Depths
0.5% AEP + CC Breach 1
Proposed Scenario**

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013