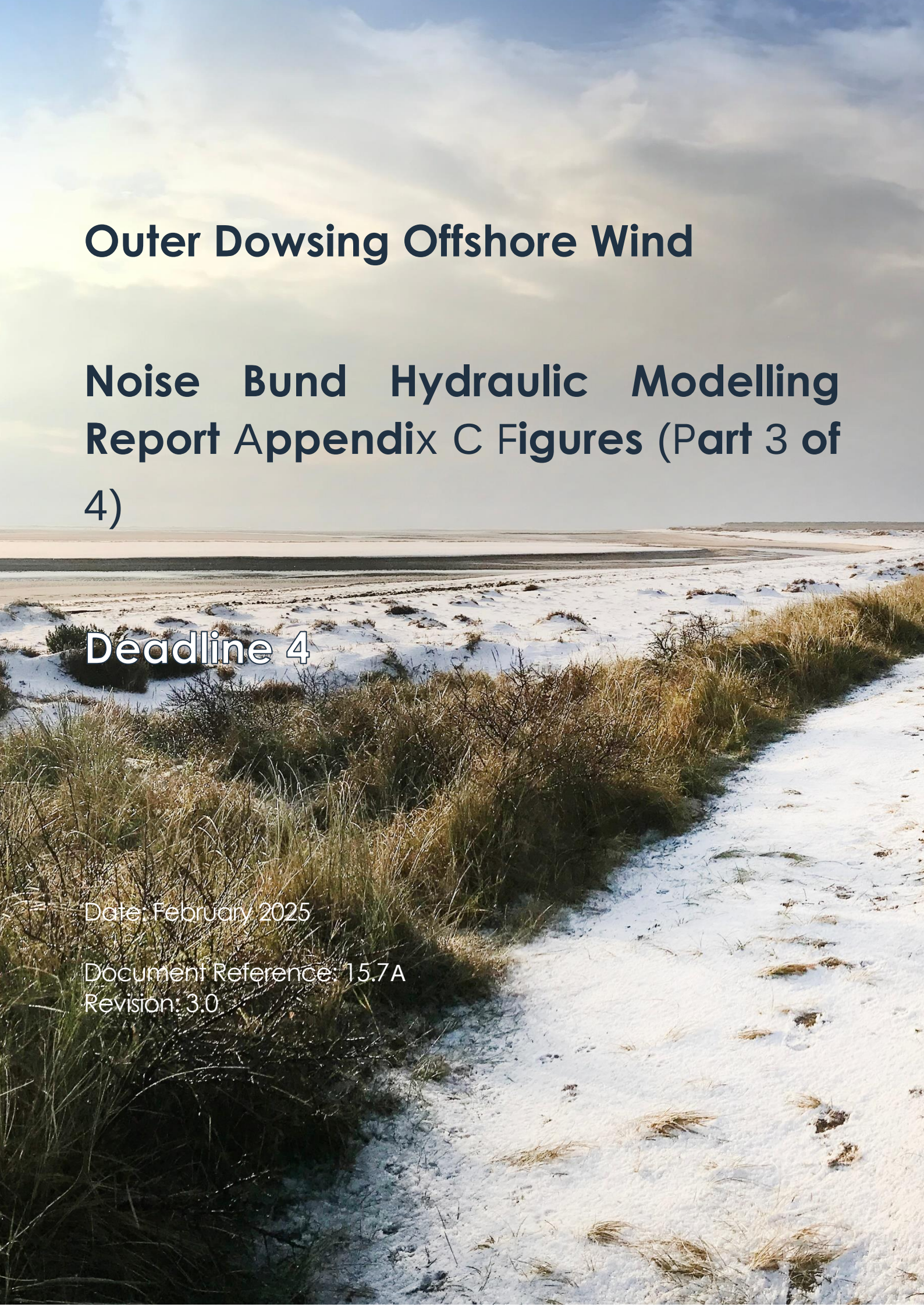
Outer Dowsing Offshore Wind

Noise Bund Hydraulic Modelling Report Appendix C Figures (Part 3 of 4)

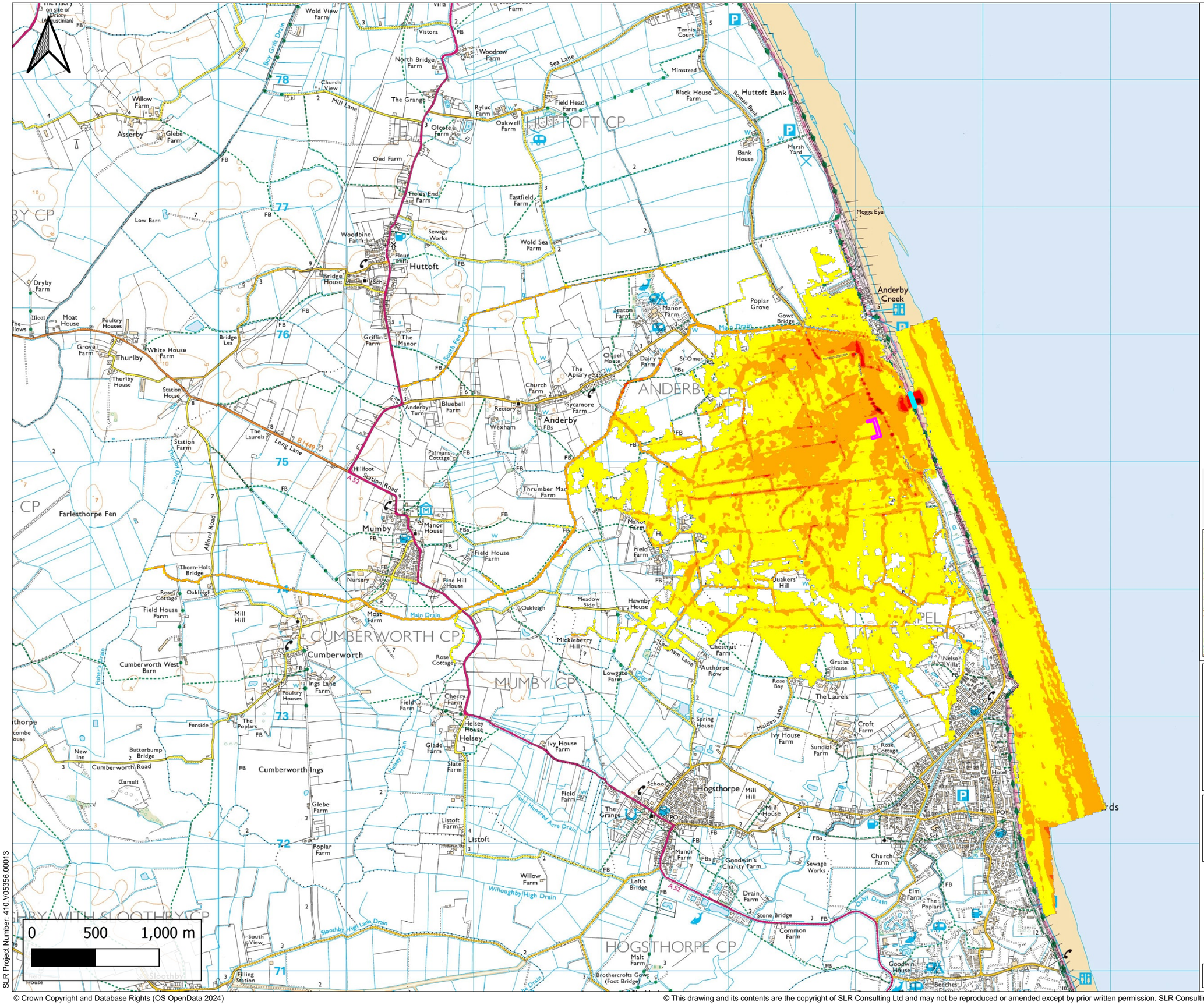


Deadline 4

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 3 of 4)					
Internal Document Number:	PP1-ODOW-DEV-CS-REP-0223_03			3 rd 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
- Proposed Noise Bund

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.

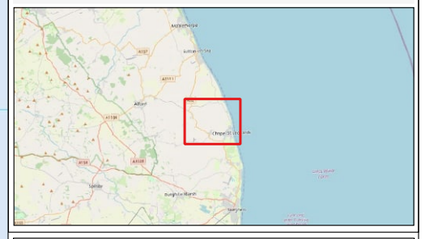


Figure No. 36

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 1 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

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.

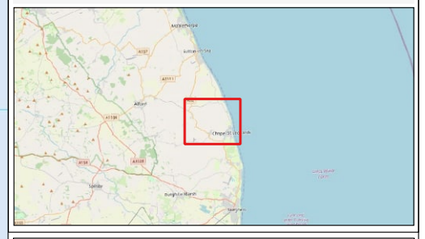


Figure No. 37

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

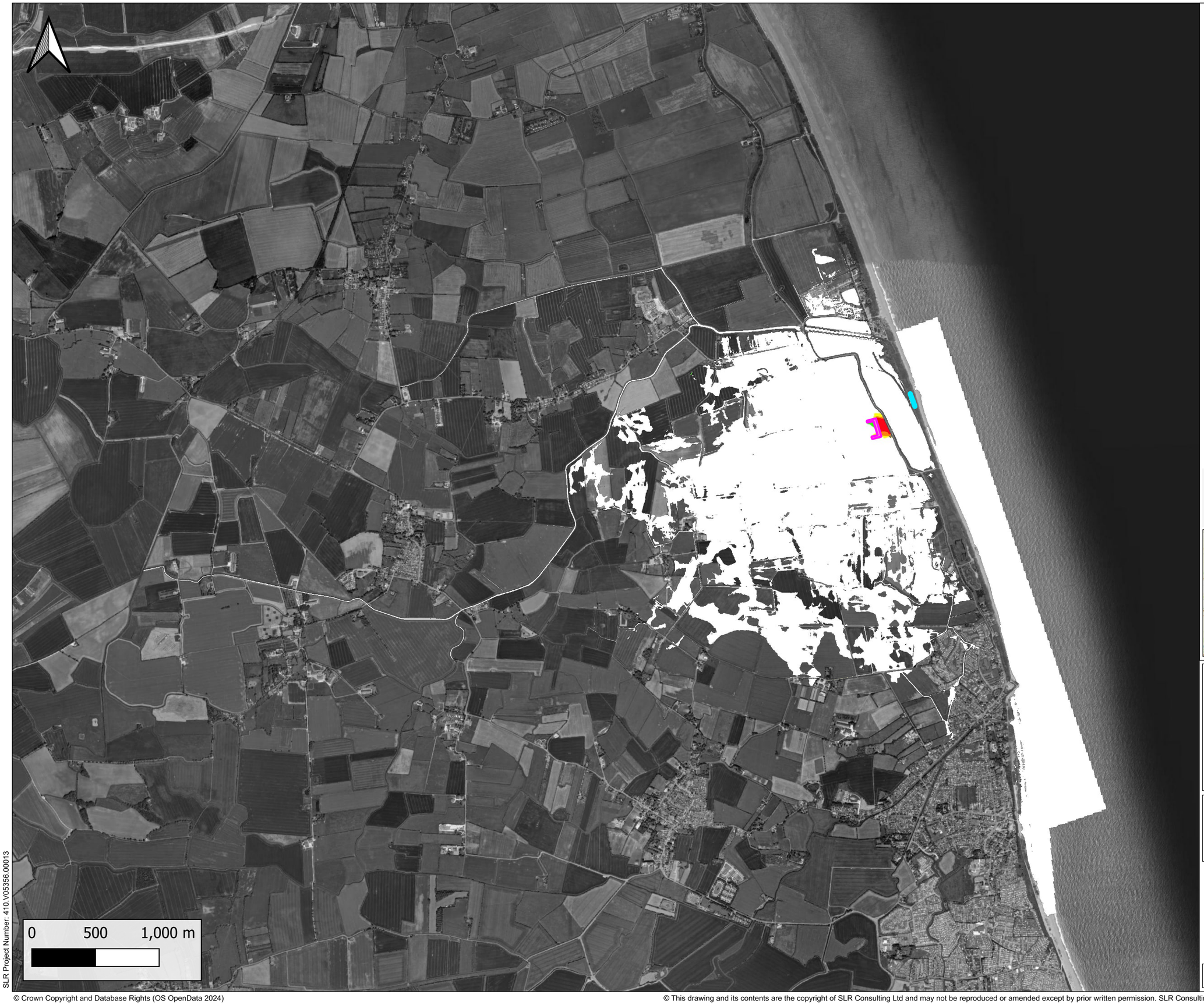
www.slrconsulting.com

Maximum Flood Hazard 0.5% AEP + CC Breach 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
- 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.

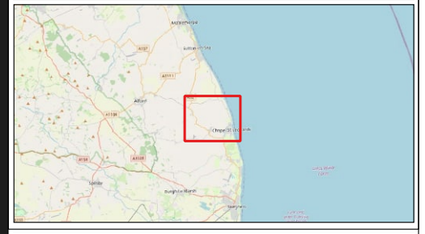


Figure No. 38

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 + CC Breach 1 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

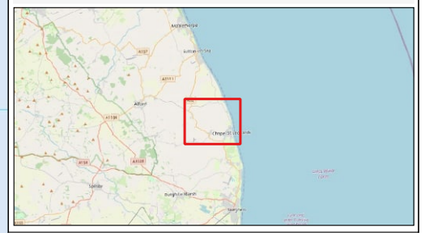
Legend

- 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.



0 500 1,000 m

Figure No. 39

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 1 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

Legend

- Breach Location
- Proposed Noise Bund

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.

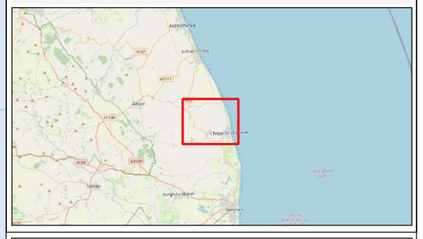


Figure No. 40

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 1 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

0 500 1,000 m

SLR Project Number: 410.V05356.00013

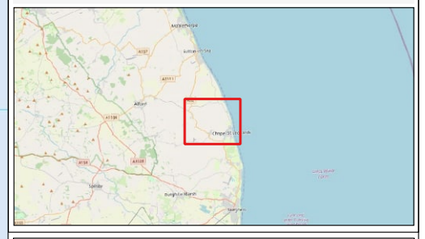
Legend

- Breach Location
- 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.



0 500 1,000 m

SLR Project Number: 410.V05356.00013

Figure No. 41

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

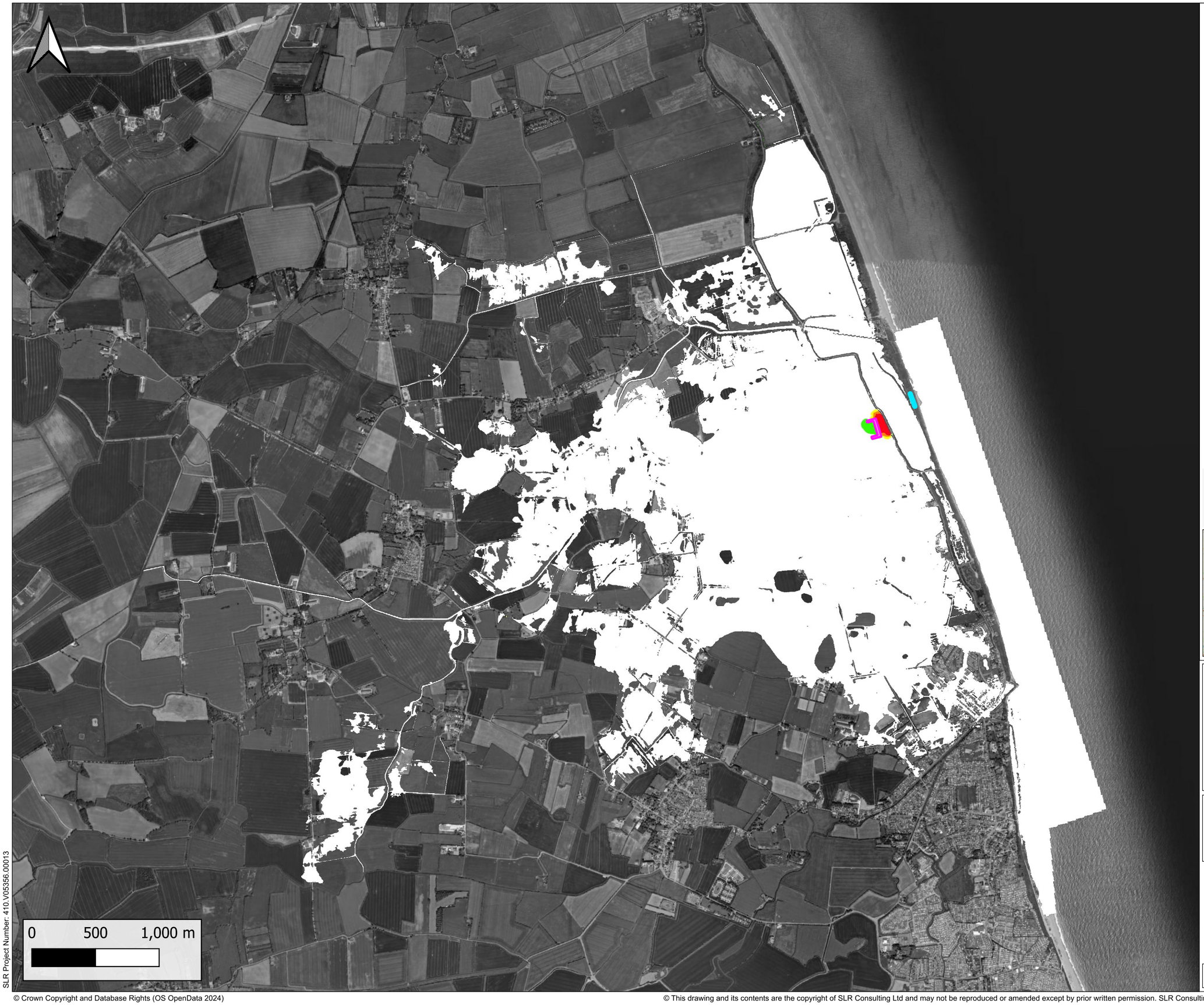
SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

www.slrconsulting.com

Maximum Flood Hazard 0.1% AEP Breach 1 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025



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 Conditions

- 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.

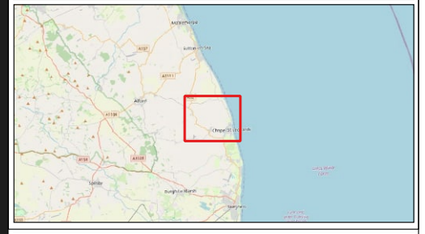


Figure No. 42

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 0.1% AEP Breach 1 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

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.

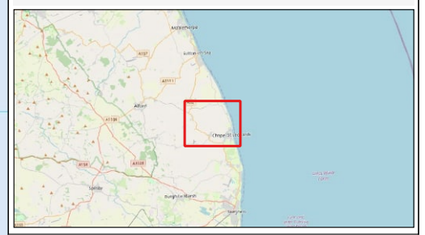


Figure No. 43

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

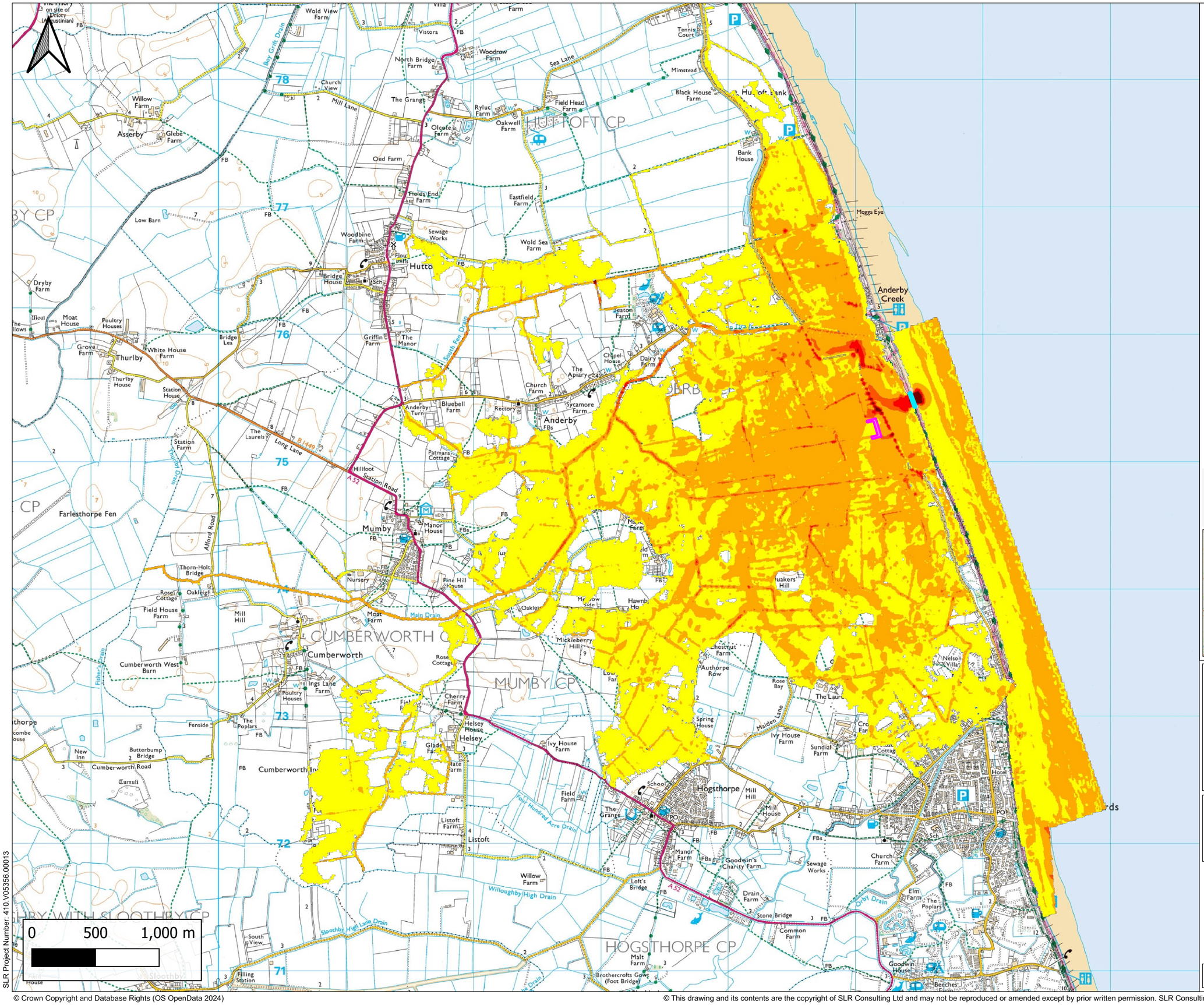
www.slrconsulting.com

Maximum Flood Depths 0.1% AEP + CC Breach 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
- Proposed Noise Bund

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.

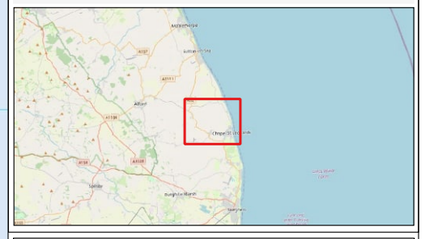


Figure No. 44

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 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

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.

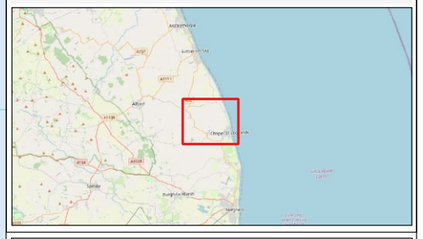


Figure No. 45

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

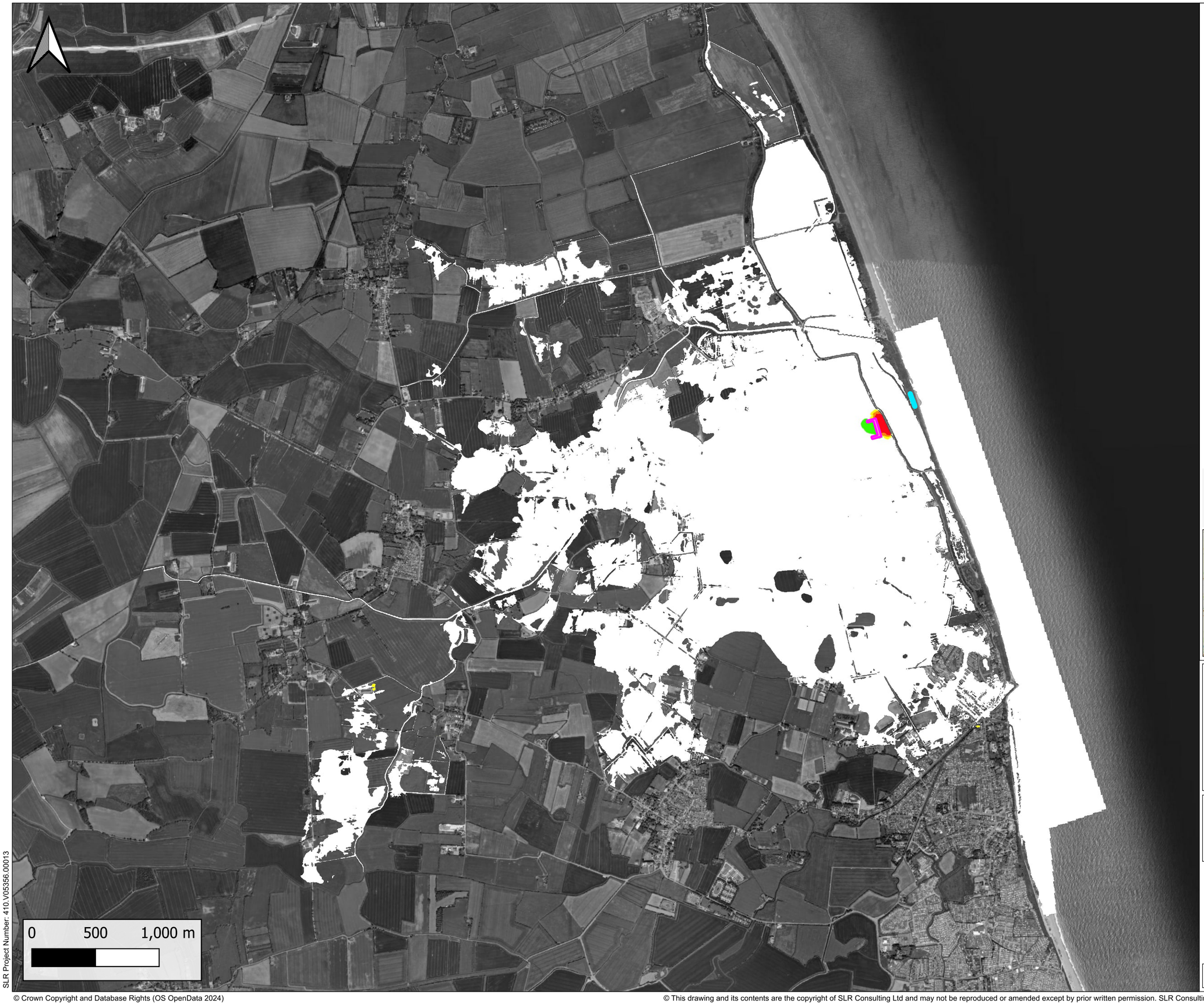
www.slrconsulting.com

Maximum Flood Hazard 0.1% AEP + CC Breach 1 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

0 500 1,000 m

SLR Project Number: 410.V05356.00013



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 Conditions

- 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.

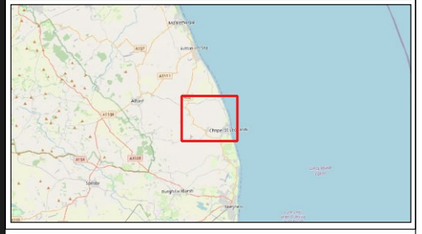


Figure No. 46

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 0.1% AEP + CC Breach 1 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

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.

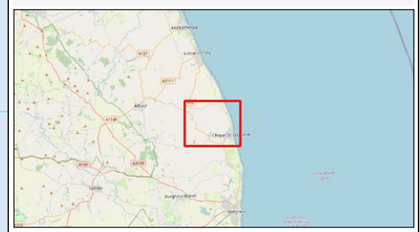


Figure No. 47

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
Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

0 500 1,000 m

SLR Project Number: 410.V05356.00013

Legend

- Breach Location
- Proposed Noise Bund

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.

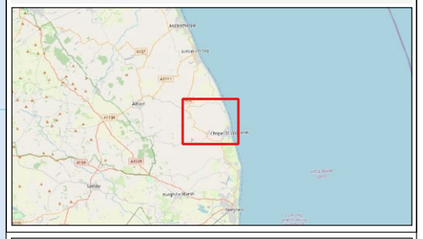


Figure No. 48

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind

SLR

6 PRINCESS STREET
MANCHESTER
M1 6NG

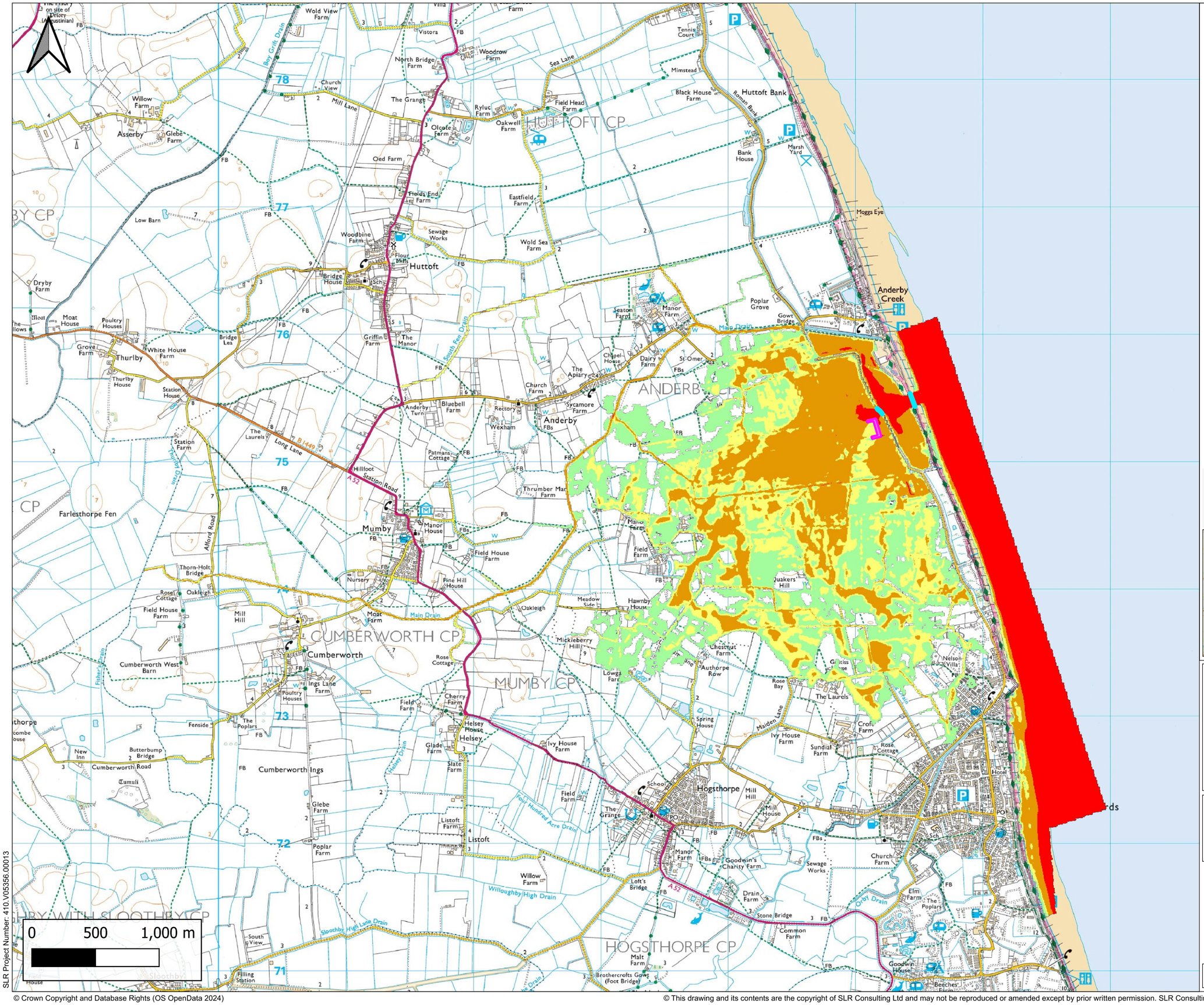
www.slrconsulting.com

Maximum Flood Velocity 0.5% AEP Breach 2 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013

0 500 1,000 m



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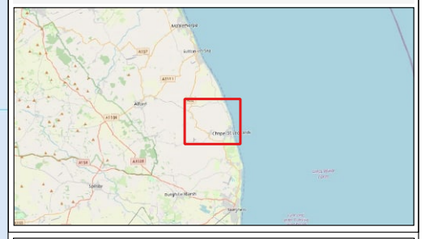


Figure No. 49

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client

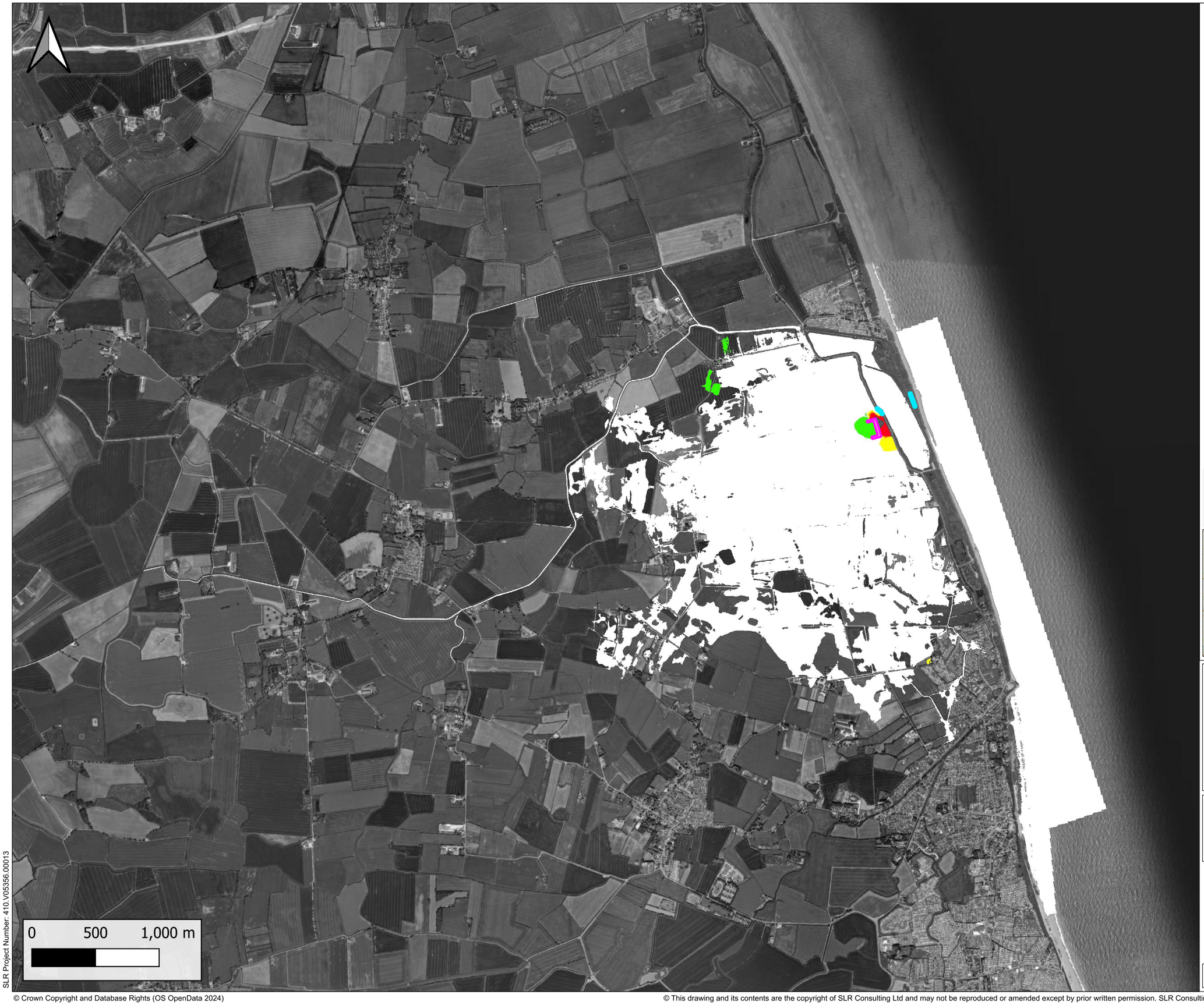
Outer Dowsing Offshore Wind

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

Maximum Flood Hazard
0.5% AEP Breach 2
Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013



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 Conditions

- 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.

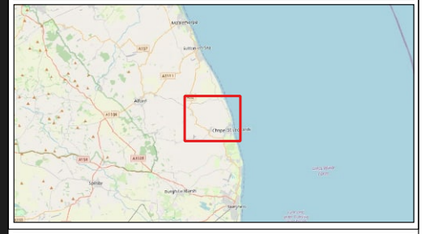


Figure No. 50

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 2 Proposed Scenario

Scale	Version	Date
A3	1.0	January 2025

SLR Project Number: 410.V05356.00013