Barton to New Holland Tidal Flood Alleviation Scheme

Issue 07

March 2024

Aerial view of Waters Edge Visitor Centre and Barton Haven – January 2024

Welcome to the Project

Tidal flooding is a long-standing problem for the communities of Barton, Barrow and New Holland. Previous tidal flood incidents, such as the last major incident which took place on the 5 December 2013, highlight the need for improved tidal flood defences and increased community resilience.

This project aims to develop an approach to alleviate tidal flooding, with community resilience, sustainability, and adaptation at its core.

Project Update

In February, our project team (formed of representatives from the Environment Agency, Arup and Jacobs) shared the viable solution and enhancement measures at our community drop-in events in Barton, Barrow Haven, and New Holland. The events provided an opportunity for you to share your views, ask questions and provide feedback on the design options being considered. Your feedback will support the assessment of options to be taken forward into a business case.

Figure 1. Baseline Tidal Flood Risk Map

Legend

- Baseline Flood Risk 2022 - 0.5% (Annual Exceedance Probability)
- Baseline Flood Risk 2056 - 0.5% (Annual Exceedance Probability)
- Baseline Flood Risk 2071 - 0.5% (Annual Exceedance Probability)
- Baseline Flood Risk 2121 - 0.5% (Annual Exceedance Probability)

What is Annual Exceedance Probability?

Annual Exceedance Probability (AEP) is the annual likelihood of flooding.

Figure 1: Map showing how flood risk could change between 2022 and 2121 if there are no improvement to the current defences and they are simply maintained.

Floodline 0345 988 1188

Incident Hotline 0800 80 70 60

Engagement Events

Our project team held three community drop-in events in New Holland, Barton, and Barrow Haven in February. The purpose of these events was to share our viable solution and enhancement measures and to gather feedback.

At the community drop-in events, we spoke to over 190 residents, business owners, local councillors, and members of the wider community. As well as sharing the scheme's current proposals, we provided updates on our environmental surveys, information on ground investigations and explained how this project fits into the wider Humber 2100+ strategy.

The feedback collected at the both the events and our virtual engagement platforms will feed into the scheme's outline design and help determine the best approach to maximise community benefits.

Early analysis of the feedback suggests high levels of support for the scheme, and recognition of the positive impacts it will have on the area.

Figure 2: Photo from our community drop-in event in New Holland

Virtual Engagement

You can view all the information and materials shared at the community drop-in events on our Virtual Engage platform:

https://barton-to-new-holland-tidal-fas.virtual-engage.com

Please click the blue icons on each information board to access information. Feedback forms will be available on the virtual engagement website till midnight on the 1st of April.

If you have any trouble accessing or using the website, or require information in an alternative format, please contact our team at BartontoNewHollandFAS@environment-agency.gov.uk

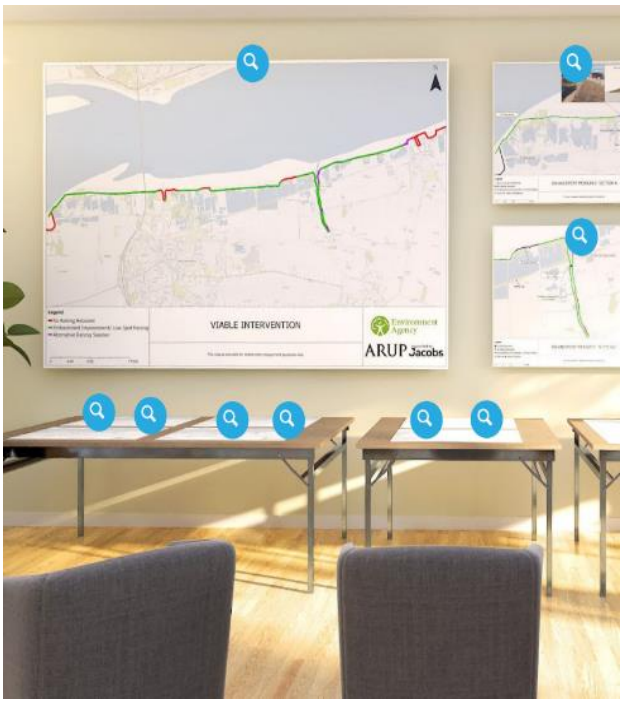

Figure 3: Screenshot from our virtual engagement website

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Project Proposals

We are still in the process of developing our final designs for the project but are sharing some of the main options which were displayed at our events. These options include the viable solution and the enhancement measures.

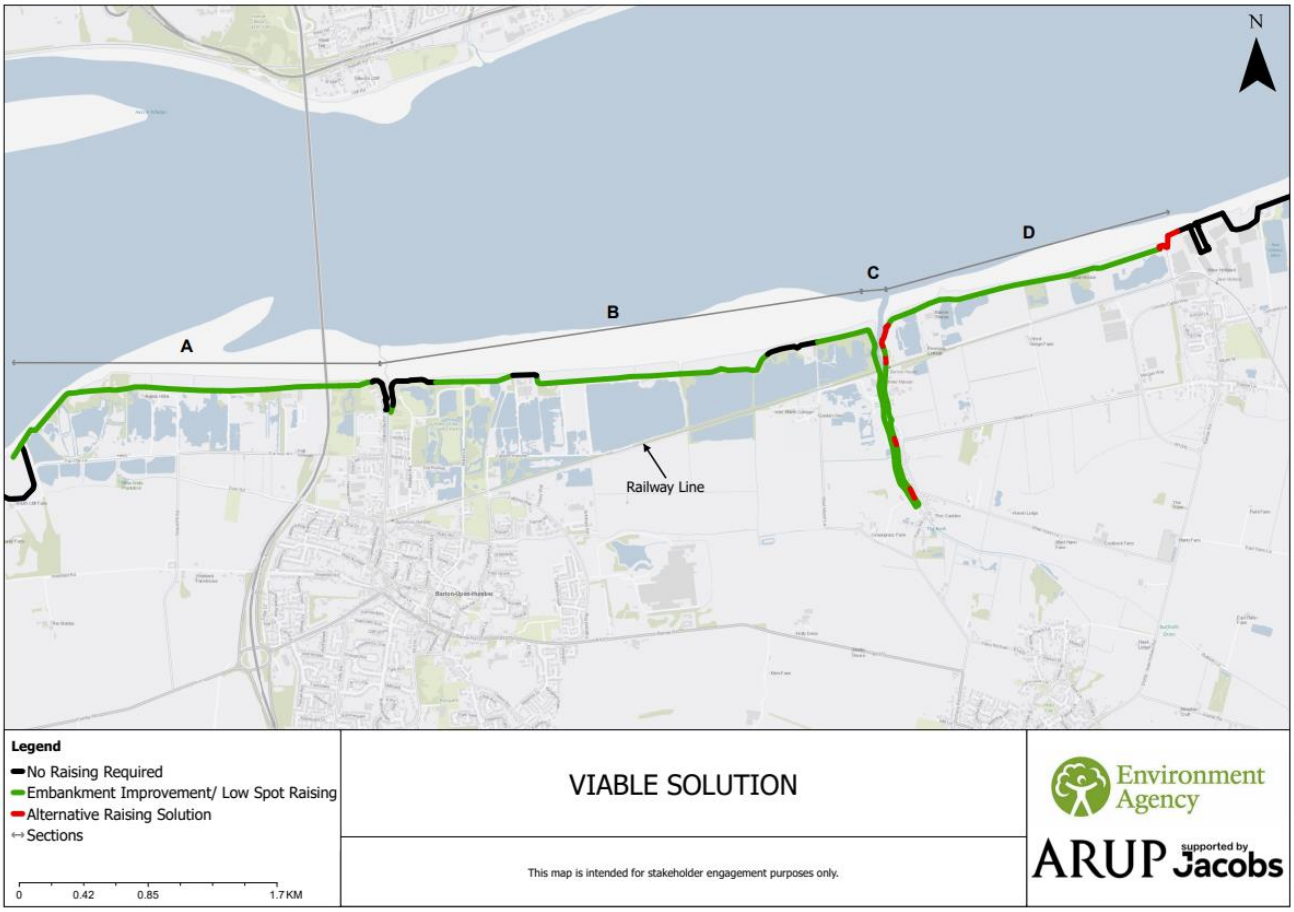
Viable Solution

The viable solution includes raising and strengthening of flood embankments and additional resilience interventions to identified areas across the Humber frontage.

It is referred to as the 'viable solution' as we believe it is currently deliverable within the technical, economic, archaeological, and environmental constraints of the project.

The environmental constraints are important to consider as these protect the valuable and diverse habitats of the Estuary and clay pits. These 'designated sites' can only be developed and changed under very strict regulations which limit the amount and nature of the work that can be carried out. A map outlining the designated sites can be found in our newsletter from June 2022 on our citizens space website.

The map below showcases the areas being considered for embankment improvement/low spot raising, alternate raising solutions as well as areas where no raising is required.



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Enhancement Measures

Our enhancement measures are a series of measures which can be delivered in addition to the viable solution if further funding can be obtained.

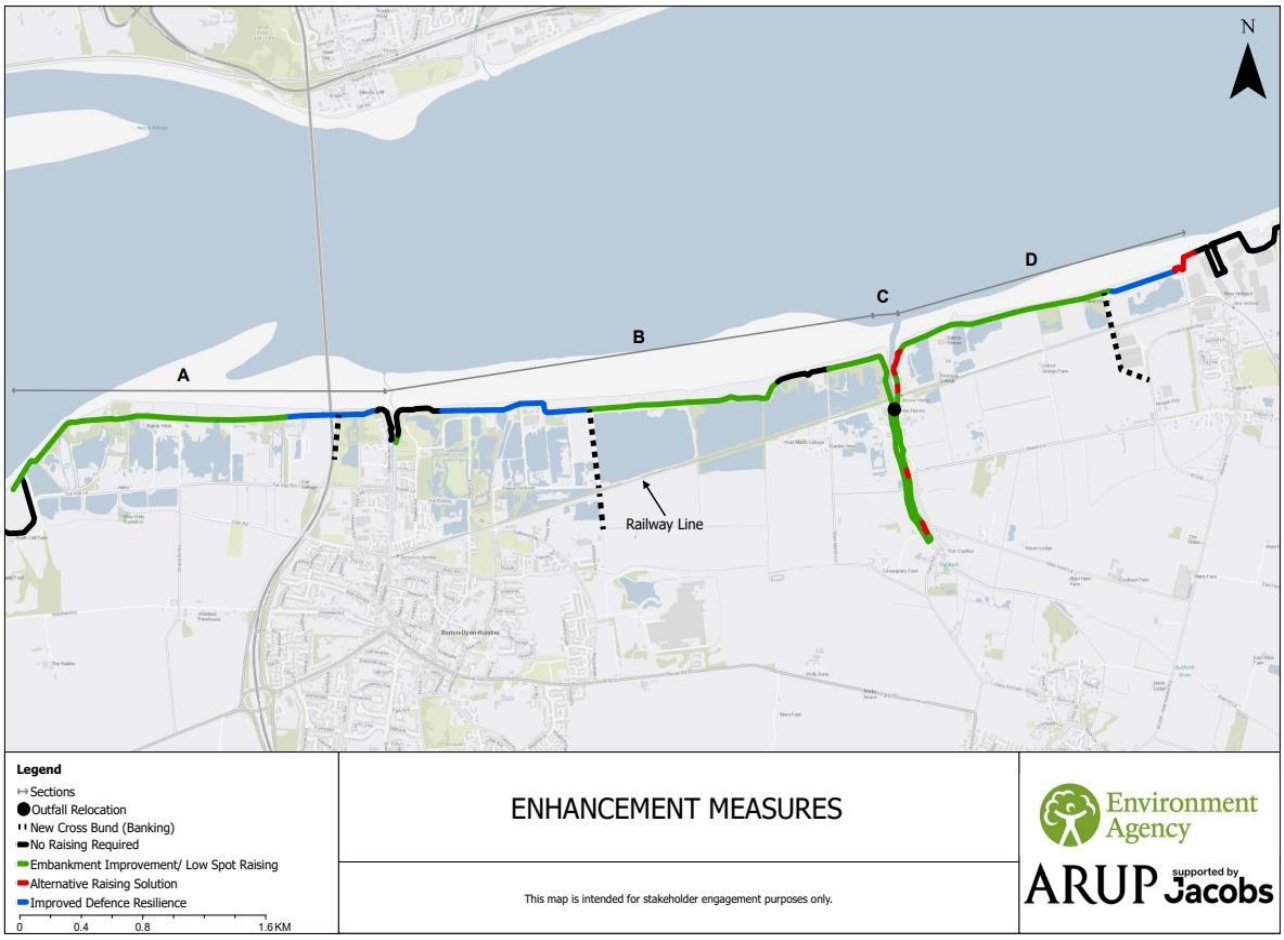
Enhancement measures include the construction of cross bunds, improved defences, and a relocated outfall. Bunds are a form of flood management used as a barrier to prevent the spread of flood water across the tidal flood plain. They are generally made of earth and formed into a linear mound.

These measures will further reduce the flood risk to the communities but can only be delivered if additional funding can be obtained. The project team are currently exploring funding solutions.

If further funding is not able to be found soon, alternately, the enhancement measures could also be implemented at a later stage (for example, after 2055). This would provide adaptation to further climate change impacts, once these are better understood, after completion of the Humber 2100+ strategy. More information on the Humber 2100+ strategy can be found on our virtual engagement website.

The map below displays the enhancement measures being considered, including the relocation of the Barrow Haven outfall, cross bunds and improved defence resilience.

Our final design is likely to be a combination of the viable solution with some elements of the enhancement measures.



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Current and Next Steps

- We are currently analysing all the feedback received and plan to share key insights and outcomes by mid-April.
- We have undertaken a series of desk-based and site walkovers to help rationalise and refine our viable solution and enhancement measures.

Figure 4: Photo from one of our site walkovers

- Once the preferred solution has been agreed, we will commence outline design and update our environmental assessments and reporting.
- We plan to undertake a number of ecological surveys in June to inform our Biodiversity Net Gain assessment.
- Jackson Civil Engineering (our construction partner) will undertake a detailed exercise to consider option buildability and costing.

Our in-person community events have now concluded but you can view all the information and materials, and share your feedback on the options, on our Virtual Engage platform here:

https://barton-to-new-holland-tidal-fas.virtual-engage.com

Feedback can be submitted until Monday 1st of April.

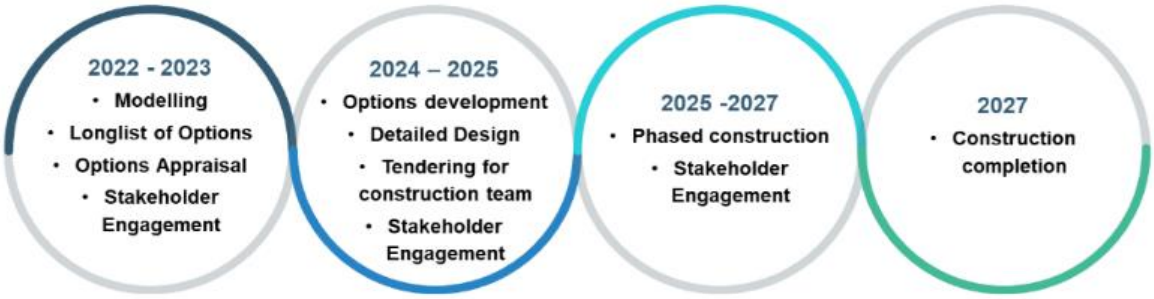
Additional information about the project as well as any updates are also available on our Citizen Space website available here:

Barton to New Holland Tidal Flood Alleviation Scheme - Information Page - Environment Agency - Citizen Space (environment-agency.gov.uk)

For any other questions or concerns, or to get added to our mailing list, our project team can be contacted via: BartontoNewHollandFAS@environment-agency.gov.uk

Project Timeline

The project is scheduled to start phased construction in 2025 and reach completion by 2027. The diagram below explains the steps to construction completion.



Get Involved

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