

North East Lincolnshire Local Flood Risk Management Strategy

Executive Summary

Draft for public consultation

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Prepared for:

North East Lincolnshire Council

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1 Introduction

This Local Flood Risk Management Strategy (LFRMS) sets out how North East Lincolnshire Council (NELC) undertakes its flood risk management responsibilities to meet the requirements of the Flood and Water Management Act 2010. North East Lincolnshire Council is a Lead Local Flood Authority (LLFA) and is required to establish a strategy to define how local flood risk will be managed locally.

This strategy is a review of the previous NELC LFRMS (2015) and is based on the five step process for developing a LFRMS set out by [the Local Government Association](#)¹, underpinned by the concept of 'Work with others' which are:

- Understand flood risk
- Set objectives
- Choose measures
- Implement
- Monitor and review

To gather information on flood history, issues, and events a community questionnaire was conducted as part of this strategy and the results reviewed and incorporated together with other flood risk data available.

Objectives and measures set in the previous strategy were reviewed and updated as part of a workshop with key stakeholders. A Flood Risk Action Plan has been developed which sets out actions to enable the Council and key partners to achieve these objectives. Flooding hotspots identified have been taken into consideration in developing the measures and actions.

1.1 Themes of our Local Strategy

Since the previous LFRMS was adopted in 2015, the Environment Agency (EA) adopted the [National Flood and Coastal Erosion Risk Management \(FCERM\) Strategy](#)² in 2020. The objectives of this strategy are aligned with the three long term ambitions set out within the National FCERM, which are:

- Climate Resilient Places: working with partners to bolster resilience to flooding and coastal change across the nation, both now and in the face of climate change.
- Today's growth and infrastructure resilience in tomorrow's climate: making the right investment and planning decisions to secure sustainable growth and

¹ <https://www.local.gov.uk/topics/severe-weather/flooding/local-flood-risk-management-strategies-lfrms-guidance/develop-local>

² <https://www.gov.uk/government/publications/national-flood-and-coastal-erosion-risk-management-strategy-for-england--2#full-publication-update-history>

environmental improvements, as well as infrastructure resilient to flooding and coastal change.

- A nation ready to respond and adapt to flooding and coastal change: ensuring local people understand their risk to flooding and coastal change and know their responsibilities and how to take action.

2 Flood Risk in North East Lincolnshire

The public consultation highlighted a number of flooding sources which present a risk across North East Lincolnshire including flooding from watercourses, surface water, groundwater, sewers, and coastal flooding.

All sources of flood risk have been considered within the LFRMS, using best available data. Stakeholders were consulted to provide details on local flood risk issues and highlight areas of concern, including the Environment Agency, Lincolnshire County Council, the Internal Drainage Boards, and Anglian Water.

EA data alongside published Section 19 flood investigation reports were used to assess areas of historic flood risk issues across North East Lincolnshire.

Figure 2-1 and Figure 2-2 below show the risks of fluvial and tidal, and surface water flooding respectively across North East Lincolnshire.

Comparable mapping is not available for other sources of flood risk but consultation with stakeholders highlighted areas of key risk, in particular sewer flooding risks across Grimsby and Immingham, and groundwater flood risk across Grimsby, with several known active groundwater springs.

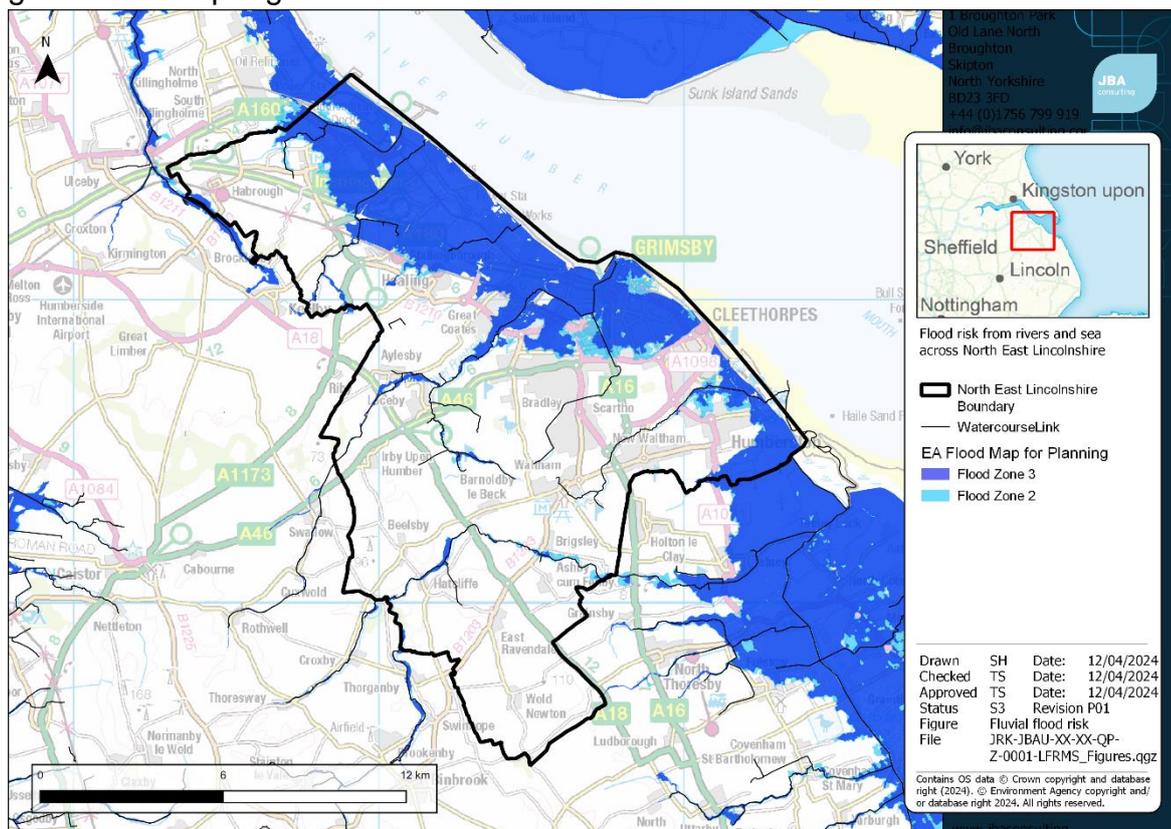


Figure 2-1: EA Flood Map for Planning dataset showing flood risk from rivers and sea across North East Lincolnshire.

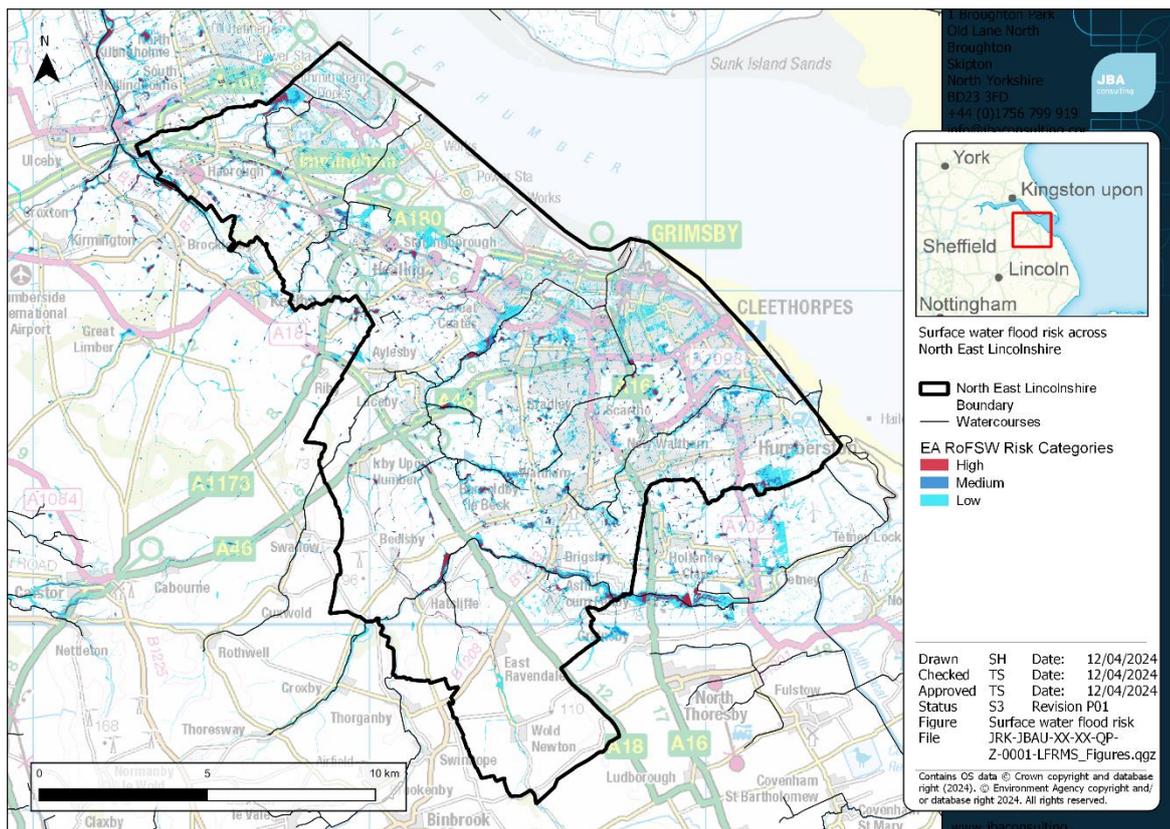


Figure 2-2: EA Risk of Flooding from Surface Water Mapping (RoFSW) showing surface water flood risk across North East Lincolnshire.

2.1 Hotspot Analysis

A hotspot analysis was carried out to identify key areas of flood risk in North East Lincolnshire from surface water, and rivers and sea. Flood risk mapping data was combined with infrastructure classification data to identify areas of high risk to key infrastructure. The outputs from this analysis form the basis of understanding flood risk across North East Lincolnshire and are taken into consideration when planning measures and actions within the LFRMS.

Hotspots identified through this analysis and the community questionnaire are presented for both surface water flood risk and rivers and seas in Figure 2-3 and Figure 2-4 below.

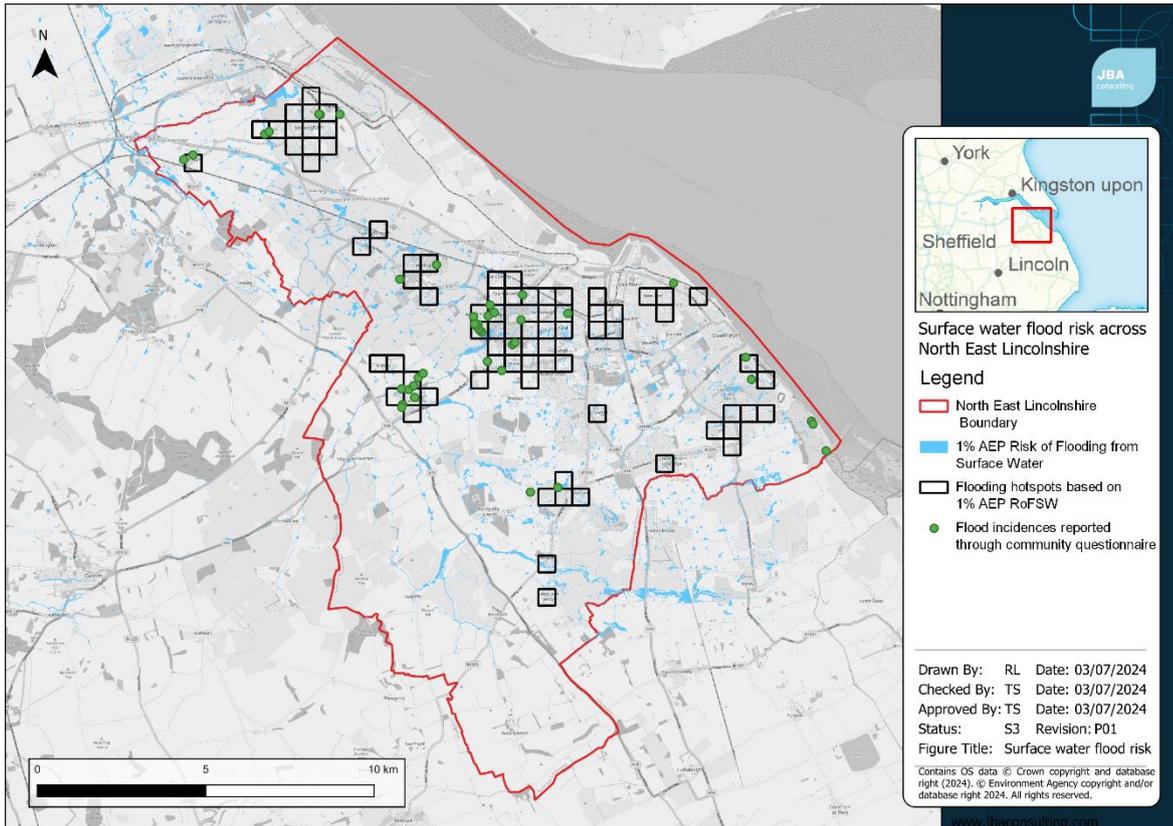


Figure 2-3: Surface Water Hotspots in North East Lincolnshire.

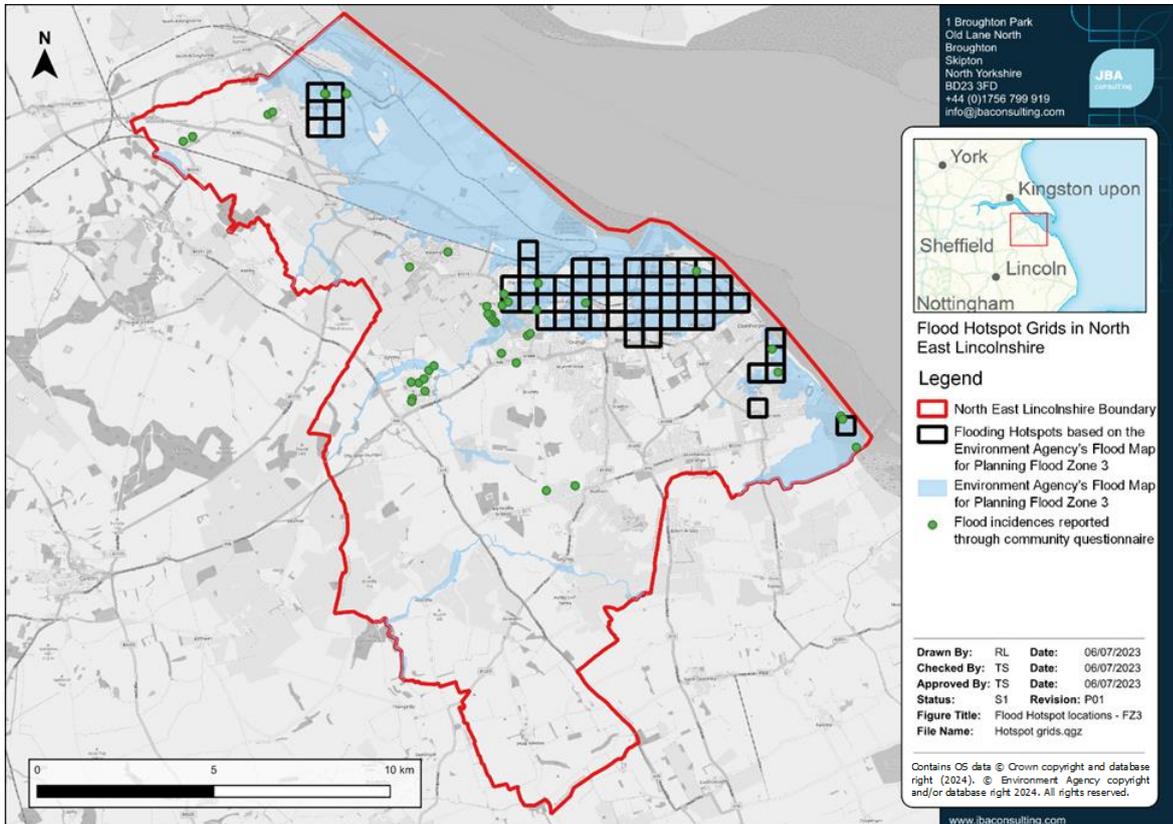


Figure 2-4: Rivers and sea hotspots in North East Lincolnshire.

3 Objectives overview

Following from the literature review, community questionnaire, hotspot analysis and stakeholder workshop, objectives were set in line with the EA's National FCERM Strategy and are outlined below.

Climate Resilient Places

1. We will increase our skills, capabilities and understanding of local flood risk through investigations and continually improving data.
2. We will work with development planning to seek opportunities to improve resilience through new and existing development, to encourage environmental net gain.
3. We will strive for sustainability in all aspects of flood risk management in order to meet the Council's goals of cutting carbon emissions to net zero by 2040.

Today's growth and infrastructure resilient in tomorrow's climate

4. We will seek opportunities for innovation in flood risk management duties and schemes to adapt to a changing climate.
5. Plan and adapt to a changing climate through developing longer term adaptive approaches.

A nation ready to respond and adapt to flooding and coastal change

6. We will build upon and improve existing resilience at a community level through increasing awareness and understanding of flood risk and working together to embed resilience in buildings and planning.
7. We will continue to review preparedness in responding to flood events and update accordingly through working with the Local Resilience Forum and communities so that communities and RMAs alike can better prepare and respond to flooding and coastal change.

Measures detailing how these objectives will be met are set out in Appendix A of the LFRMS. These measures are strategic steps to be taken to address each objective. These include measures for different RMAs with flood risk responsibilities across North East Lincolnshire and encourage partnership working and seeking different pathways for funding.

Actions to help achieve the objectives and to address specific flood risk management issues in the identified hotspots and across North East Lincolnshire as a whole are detailed in Appendix B, the Action Plan. This sets out the RMA responsible for the action, alongside indicative timescales, and potential sources of funding.

4 Implementation, monitoring and review

4.1 Implementation and monitoring

This Strategy sets out the roles, responsibilities, objectives, and priorities of RMAs across North East Lincolnshire. In partnership with other RMAs and key stakeholders, NELC will use this Strategy to guide their approach to local flooding issues across the borough.

All applicable RMAs are committed to delivering the objectives of the Flood Risk Action Plan to reduce flood risk to the communities across the borough. NELC, as the LLFA, will continue to take responsibility for implementing the Strategy and will lead on developing and continuing existing relationships with partners and stakeholders.

Successful implementation of the strategy will be influenced by external factors such as the availability of resources and funding.

4.2 Funding

Funding opportunities for FCERM projects will depend on the type of project and the potential benefits it will offer. Some potential options for funding FCERM projects include Grant-in-Aid, Local Levy, and Community Infrastructure Levy.

4.3 Review

The Strategy has been developed to support understanding and management of local flood risk in the borough over the next five to ten years and therefore will require periodic review to so that it remains current and in line with local and national policy, changes in climate change science and local flood risk.

The Flood Risk Action Plan will be reviewed annually to check that the actions continue to be appropriate and achievable. It should be noted that this Strategy represents the current situation (at the time of publishing) based on the current evidence base.