

Open Report on behalf of Environment Agency

Report to:	Flood and Water Management Scrutiny Committee
Date:	25 November 2019
Subject:	Environment Agency Update

Summary:

To update scrutiny committee on Environment Agency activities, including progress on key capital schemes.

1. Key Capital Schemes

This paper provides an update on the key schemes within the current 2015-21 consented programme for the Northern Regional Flood & Coastal Committee (RFCC) area. The overall programme consists of 107 schemes with the key ones being the **34** highest priority schemes based on the following criteria:

- **Outcome measures** – Schemes delivering >200 households
- **Significant expenditure** – Schemes with consented total spend >£1m
- **Contributions** – Schemes with public, private and further contributions required collectively >£300k
- **Other** projects deemed important in the Area including for reasons associated with reputational risk

Of the 34 key schemes **16** are located within Lincolnshire:

Scheme Name	Promoter
• Boston Barrier	Environment Agency
• Boston Haven Banks	Environment Agency
• Saltfleet to Gibraltar Point Strategy	Environment Agency
• Lincshore	Environment Agency
• Horncastle Flood Alleviation Scheme	Environment Agency
• Louth Flood Alleviation Scheme	Environment Agency
• Wainfleet Relief Channel	Environment Agency
• Black Sluice Catchment Works	Environment Agency
• Work arising from Upper Witham Strategy Review (Lincoln Defences)	Environment Agency
• Swaton Flood Resilience Scheme	Environment Agency
• Welland Flood Banks Refurbishment	Environment Agency
• Saltfleet Pumping Station	Lindsey Marsh IDB

- Boygrift Pumping Station
 - Wrangle Sea Banks
 - Hobhole Pumping Station
 - Westmere Pumping Station
- Lindsey Marsh IDB
Witham Fourth IDB
Witham Fourth IDB
South Holland IDB

Of the 107 schemes in the Northern RFCC programme 17 are being promoted by Lincolnshire County Council.

This paper provides a short summary of the 11 Environment Agency key schemes on the Northern RFCC programme with Lincolnshire. More comprehensive report being provided to the Lincolnshire Flood Risk & Drainage Partnership Strategy Group and the Northern RFCC, both of which have representatives from the County Council.

UPDATE

From April 2019 the list of schemes being reported has been reviewed.

1.1 Boston Barrier

A tidal barrier across the Witham Haven which, in conjunction with associated works to the Haven Banks, reduce the chance of tidal flooding to the centre of Boston to a 1 in 300 annual chance over the next 100 years.

Start date:	May 2014
End date:	December 2019
Total Project Cost:	£118,514,733

Update since last meeting

The main barrier gate and hydraulic rams have been delivered to site and fitted in place, though not commissioned.

The barrier control room has now been built and electrical cable installations are ongoing inside.

Piling work to reinforce the left bank quay side began in mid-August and will continue on intermittently until the end of the project.

Key outstanding work includes:

- Primary gate commissioning
- Continued construction of left bank quay and flood walls
- Completion of right bank flood walls and reinstatement works and landscaping
- Construction of port wet dock entrance

1.2 Boston Haven Banks

Works to raise a number of low spots along the Haven banks which, in conjunction with the barrier, reduce the chance of tidal flooding to the centre of Boston to a 1 in 300 annual chance. This phase of works is the first in a series of bank raising phases to keep pace with climate change over the next 100 years.

Start Date:	January 2017
End Date:	October 2020
Total Project Cost:	£5,090,000

Update since last meeting

A design and build contract has been awarded to JacksonHyder consortium, with works underway on the left bank. The main phase to raise crest levels will begin early 2020 with a programmed completion of October 2020.

1.3 Saltfleet to Gibraltar Point Strategy Review (SGPSR)

Beach nourishment remains the most cost effective solution in the short-term as we keep pace with climate change. However, this option alone will not be technically viable in the longer term. The SGPSR will indicate when an alternative approach for significant capital investment is required and the need for partnership contributions is likely.

Start Date:	January 2017
End Date:	April 2021
Total Project Cost:	£1,422,344

Update since last meeting

The draft strategy consultation closed at the end of August 2019, with overwhelming support for the strategy.

Environment Agency “Large Projects Review Group” are reviewing the strategy and we hope to be able to publish it early next year.

1.4 Lincshire (Interim Beach Management Lincolnshire Coast)

Beach nourishment scheme protecting approximately 20,000 houses, 35,000ha prime agricultural land and 30,000 static caravans as well as major tourism developments between Mablethorpe and Skegness.

Start Date	January 2015
End Date:	March 2021
Total Project Cost:	£65,792,126 (inc. previous years)

Update since last meeting

This year's campaign was completed in July 2019. Total sand placed on beach approximately 400,000 m³.

Additionally 1.7Km of splash deck between Trusthorpe and Sutton on Sea was resurfaced.

1.10 Lincoln Defences (previously- Work arising from Upper Witham Strategy Review)

A catchment wide review of flood risk across the Upper Witham catchment has concluded with the following key projects resulting:

- Replacement of a section of floodwall along Fosdyke Canal, alongside Foss Bank.
- Refurbishment of sections of flood wall along the River Witham alongside St Catherines.
- Refurbishment of sections of flood wall along the River Witham between Dixon Street and Boultham Avenue.
- Mechanical & Electrical refurbishment to the three sluices in the city, at Stamp End, Great Gowts and Bartgate.

Start Date:	March 2018
End Date:	March 2021
Total Project Cost:	£6,490,000

Update since last meeting

Works started in June and the work at Great Gowts Sluice, Bargate Sluice and the Witham walls are now complete.

Due to high river levels the work on Stamp End Sluices has been postponed until the new year.

Discussions are still being held with CRT regarding the works along the Fosdyke Canal, and we are encouraged that this will enable work to commence on schedule.

Background Papers

No background papers within Section 100D of the Local Government Act 1972 were used in the preparation of this report.

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