Lincolnshire Flood Risk and Drainage Management Partnership Framework



Joint Lincolnshire Flood Risk and Drainage Management Strategy 2012-2025

> Part 3 of 3 Action Plan 2013-2014

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1 Introduction

Lincolnshire County Council, as the Lead Local Flood Authority for the county, is required by the new legislation to work with other Risk Management Authorities to develop, maintain, apply and monitor a Local Flood Risk Management Strategy, which must be consistent with the Environment Agency's national Flood and Coastal Erosion Risk Management Strategy.

The Risk Management Authorities are:

- Lincolnshire County Council
- The Environment Agency
- The 14 Internal Drainage Boards operating in Lincolnshire
- The 7 District Councils in Lincolnshire
- The two Water and Sewerage Companies operating in Lincolnshire

To improve the way we work together, these organisations created the Lincolnshire Flood Risk and Drainage Management Partnership in April 2010, and they are joined by

- Natural England
- The Regional Flood & Coastal Committee
- The Lincolnshire Resilience Forum (authorities responsible for planning for and responding to emergencies of all kinds)

The partnership has worked together to agree the Joint Lincolnshire Flood Risk and Drainage Management Strategy. The purpose of the Strategy is to increase the safety of people across Lincolnshire by reducing the number of people at risk of flooding, increasing the resilience of local communities and reducing the impact of flooding.

The existing Strategy documents comprise <u>Part 1 – Strategic Vision</u>, <u>Part 2A –</u> <u>Implementing the Partnership</u> and <u>Part 2B - Annexes A-F</u> which were developed through public and stakeholder consultation during 2011 and 2012. This is Part 3 of the Strategy – the Action Plan. It sets out the planned improvement schemes and maintenance work activities that Risk Management Authorities intend to do in partnership, to help achieve the overall aims of Strategy. These joint actions form the Common Works Programme set out in this document. In future years, the Action Plan will be updated and include key organisational, management and business actions, in addition to the physical works on site contained in the Common Works Programme.

Where possible, the initial action plan seeks to identify activities that are planned to commence in the current financial year i.e April 2013-March 2014, and those where completion extends into future years. However, because the action plan will be

updated to take account of issues that emerge within the 2013-2014 year, actions identified are provisional, and may be subject to change.

2 Risk-based prioritisation

When determining our priorities and actions, the Lincolnshire Flood Risk and Drainage Management Partnership will direct its resources to areas where there is the greatest need, and where investment will bring the greatest benefits. However, demand for schemes and works is always likely to exceed resource, so we must be able to clearly define which scheme/work has the highest priority.

The most important priority will always be minimising risk to human life, followed by risk to health, critical infrastructure, property, businesses including agriculture, and the environment. These are key factors in the national Flood Risk and Coastal Erosion Management Strategy and the partnership will work within this framework when prioritising flood risk management measures in Lincolnshire. This has been the approach used to develop this action plan for 2013-14.

The type of action that will be undertaken to manage flood risk and drainage will depend on the severity of the risk in each circumstance, including factors such as the likelihood of flooding, the level of danger posed by flooding, its impacts and the physical and economic feasibility of implementing a specific scheme or activity.

The national framework for assessing flood risk and its management can be viewed <u>here</u>.

3 Funding

Funding for flood risk management comes from a range of sources, including national funding from the Department for the Environment, Food and Rural Affairs (Defra), via the Environment Agency, from the Department for Communities and Local Government (CLG), and locally from the County Council, Internal Drainage Boards and District Councils. Water and Sewerage Companies also invest in works which have a significant impact on managing flood risk.

National funds for works, known as 'Grant in Aid', will be maximised, and are allocated according to a national formula that uses a range of different criteria to establish the relative priority of schemes, and thereby to establish how much national funding each scheme can attract. This formula now provides for contributions of local funds to enable the allocation of some national funding to schemes that might not previously have attracted any, but it does mean that fewer schemes will now be fully funded from this source.

Funds raised by Internal Drainage Boards and District Councils are generally spent within their own areas, while government funding direct to the County Council is allocated across Lincolnshire to discharge its duties as Lead Local Flood Authority. Funding provided by the Government to the Environment Agency is allocated at regional level by the Regional Flood and Coastal Committee. This is also true of funds raised locally (called 'Local Levy') and provided to the Environment Agency by the County Council. Other County Council funds provided for flood risk management are allocated and spent within the county.

4 The Action Plan, including the Common Works Programme

This action plan includes schemes, works and other initiatives undertaken by flood risk management authorities across Lincolnshire. Many of these activities are already the responsibility of individual organisations, such as the maintenance of an organisation's own assets, or the fulfilment of particular legal obligations.

In some cases, two or more authorities have come together through the Lincolnshire partnership to deliver work that would not have been possible, or would have taken longer to achieve, if undertaken by one organisation alone.

These works form the Common Works Programme.

5 Programme Delivery

This programme will be refreshed annually and all risk management authorities will retain the maximum flexibility to respond to schemes and works needs as they arise.

By combining resources, partners have been able to attract inward investment at a national level and raise the priority of proposed schemes regionally. With the formulation of the Common Works Programme this has enabled the partnership to achieve the highest rates in the country of national funding for local schemes.

6 2013/14 Common Works Programme

This common works programme provides an overview of planned flood risk and drainage management works, from all inundation sources, to be carried out across Lincolnshire by relevant Risk Management Authorities, commencing 1st April 2013. This information is provisional, and is subject to availability of funding and other resources, and possible changes in priorities, if flooding incidents occur during the period.

6.1 Joint programme of work attracting Government Grant in Aid

Work / Project Name	Lead Risk Management Authority (Other Risk Management Authority Partners Involved)	Flood Risk Source	Planned Delivery (Years)
Black Sluice Catchment Works	Environment Agency (Lincolnshire Lead Local Flood Authority, Black Sluice Internal Drainage Board, North Kesteven District Council, South Kesteven District Council)	Main Rivers	2013-2018
Boston Barrage / Barrier Works	Environment Agency (Lincolnshire Lead Local Flood Authority, Boston Borough Council, Black Sluice and Witham 4th Internal Drainage Boards)	Sea	2013-2018
Boston Haven Works	Environment Agency (Boston Borough Council, Black Sluice and Witham 4th Internal Drainage Boards)	Sea	2013-2015

Work / Project Name	Lead Risk Management Authority (Other Risk Management Authority Partners Involved)	Flood Risk Source	Planned Delivery (Years)
Bourne Eau Health & Safety Works	Environment Agency	Main Rivers	2013-2014
Flood Forecasting Capability Development	Environment Agency (All Risk Management Authorities)	All	2013-2016
Flood Risk Mapping	Environment Agency (All Risk Management Authorities)	All	2013-2018
Grimsby and Ancholme Catchment Flood Management Plan Review 1	Environment Agency (Lincolnshire Lead Local Flood Authority, North Lincolnshire Lead Local Flood Authority, North East Lincolnshire Lead Local Flood Authority, Grimsby Borough Council, Cleethorpes Borough Council, North East Lindsey and River Ancholme Internal Drainage Boards)	All	2013-2018
Northern Area Flood Warning Telemetry Improvements	Environment Agency (All Risk Management Authorities)	All	2013-2016
Northern Area Incident Room Improvements	Environment Agency	All	2013-2018
Horncastle Improvement Scheme	Environment Agency (Lincolnshire Lead Local Flood Authority, East Lindsey District	Main Rivers	2013-2017

Work / Project Name	Lead Risk Management Authority	Flood Risk Source	Planned Delivery (Years)
	(Other Risk Management Authority Partners Involved)		
	Council, Witham 3rd Internal Drainage Board)		
Humber: Donna Nook coastal Managed Realignment	Environment Agency (Lincolnshire Lead Local Flood Authority, East Lindsey District Council, Lindsey Marsh Drainage Board)	Sea	2013-2018
Lincshore Beach Re nourishment Scheme 2010 to 2015	Environment Agency (Lincolnshire Lead Local Flood Authority, East Lindsey District Council, Lindsey Marsh Drainage Board)	Sea	2013-2016
Louth Coastal Catchment Flood Management Plan Review 1	Environment Agency (Lincolnshire Lead Local Flood Authority, East Lindsey District Council, Lindsey Marsh Drainage Board, Anglian Water Services Ltd)	All	2013-2018
Louth Improvement Scheme	Environment Agency (Lincolnshire Lead Local Flood Authority, East Lindsey District Council, Lindsey Marsh Drainage Board)	Main Rivers	2013-2016
Lower Witham Catchment Strategy Review	Environment Agency (Lincolnshire Lead Local Flood Authority, West Lindsey District Council, North	Main Rivers	2013-2014

Work / Project Name	Lead Risk Management Authority	Flood Risk Source	Planned Delivery (Years)
	(Other Risk Management Authority Partners Involved)		
	Kesteven District Council, South Kesteven District Council, City of Lincoln Council, Boston Borough Council, Witham 1st, 3rd and 4th and Black Sluice Internal Drainage Boards, Anglian Water Services Ltd)		
Maud Foster Sluice Apron Refurbishment	Environment Agency	Sea	2013-2015
Northern Area Asset Recondition Programme	Environment Agency (All Risk Management Authorities)	All	2013-2018
Northern Area Flood Storage Reservoirs Statutory Obligations	Environment Agency (All Risk Management Authorities)	Main Rivers	2013-2016
River Witham Catchment Flood Management Plan Review 1	Environment Agency (Lincolnshire Lead Local Flood Authority, West Lindsey District Council, North Kesteven District Council, South Kesteven District Council, City of Lincoln Council, Boston Borough Council, Upper Witham, Black Sluice, Witham 1st, 3rd, 4th and Trent Valley Internal	All	2013-2018

Work / Project Name	Lead Risk Management Authority (Other Risk Management Authority Partners Involved)	Flood Risk Source	Planned Delivery (Years)
	Drainage Boards, Scunthorpe and Gainsborough Water Management Board, Anglian Water Services Ltd)		
Saltfleet to Gibraltar Point Coastal Management Strategy	Environment Agency (Lincolnshire Lead Local Flood Authority, East Lindsey District Council, Lindsey Marsh Drainage Board)	Sea	2013-2015
Upper Witham Catchment Strategy	Environment Agency (Lincolnshire Lead Local Flood Authority, West Lindsey District Council, North Kesteven District Council, City of Lincoln Council, Upper Witham and Trent Valley Internal Drainage Boards, Scunthorpe and Gainsborough Water Management Board, Anglian Water Services Ltd)	Main Rivers	2013-2014
Wainfleet Relief Channel - River Steeping Bank Repairs	Environment Agency (Lincolnshire Lead Local Flood Authority, East Lindsey District Council, Witham4th and Lindsey Marsh Internal Drainage Boards)	Main Rivers	2013-2015

Work / Project Name	Lead Risk Management Authority	Flood Risk Source	Planned Delivery (Years)
	(Other Risk Management Authority Partners Involved)		
Pauls Malt Pumping Station, Gainsborough - Intake Health & Safety Works	Scunthorpe and Gainsborough Water Management Board	Lowland Ordinary Watercourses	2013-2014
Holbeach - Langwith Gardens - Surface Water Flood Risk Investigations, Improvement Options and Potential Works	Lincolnshire Lead Local Flood Authority (South Holland District Council, Anglian Water Services Ltd, South Holland Internal Drainage Board)	Surface Water	2013-2014
Morton -Station Road - Surface Water Flood Risk Investigations, Improvement Options and Potential Works	Lincolnshire Lead Local Flood Authority (South Kesteven District Council, Anglian Water Services Ltd)	Surface Water	2013-2014
Cherry Willingham - Surface Water Flood Risk Investigations, Improvement Options and Potential Works	Lincolnshire Lead Local Flood Authority (West Lindsey District Council, Anglian Water Services Ltd)	Surface Water	2013-2014
Heighington - Fen Lane - Surface Water Flood Risk Investigations, Improvement Options and Potential Works	Lincolnshire Lead Local Flood Authority (North Kesteven District Council, Anglian Water Services Ltd, Witham 1st Internal Drainage Board)	Surface Water	2013-2014
Lincoln - Bunkers Hill - Surface Water Flood Risk Investigations, Improvement Options and Potential Works	Lincolnshire Lead Local Flood Authority (Environment Agency, West Lindsey District Council, City of	Surface Water	2013-2014

Work / Project Name	Lead Risk Management Authority (Other Risk Management Authority Partners Involved)	Flood Risk Source	Planned Delivery (Years)
	Lincoln Council, Anglian Water Services Ltd, Witham 3rd Internal Drainage Board)		
Nettleham - The Green - Surface Water Flood Risk Investigations, Improvement Options and Potential Works	Lincolnshire Lead Local Flood Authority (West Lindsey District Council, Anglian Water Services Ltd)	Surface Water	2013-2014
Boston - Marsh Lane - Surface Water Flood Risk Investigations	Lincolnshire Lead Local Flood Authority (Black Sluice Internal Drainage Board, Boston Borough Council, Anglian Water Services Ltd)	Surface Water	2013-2015
Crowland - Surface Water Flood Risk Investigations	Lincolnshire Lead Local Flood Authority (North Level Internal Drainage Board, South Holland District Council, Anglian Water Services Ltd)	Surface Water	2013-2015
Lincoln - Stamp End - Surface Water Flood Risk Investigations, Improvement Options and Works	Lincolnshire Lead Local Flood Authority (Environment Agency, Witham 3rd Internal Drainage Board, City of Lincoln Council, Anglian Water Services Ltd)	Surface Water	2013-2014

Work / Project Name	Lead Risk Management Authority (Other Risk Management	Flood Risk Source	Planned Delivery (Years)
	Authority Partners Involved)		
Sturton by Stow - Surface Water Flood Risk Investigations, Improvement Options and Works	Lincolnshire Lead Local Flood Authority (Upper Witham Internal Drainage Board, West Lindsey District Council, Anglian Water Services Ltd)	Surface Water	2013-2014
Washingborough - Keeble Drive/Main Road - Surface Water Flood Risk Investigations, Improvement Options and Works	Lincolnshire Lead Local Flood Authority (Environment Agency, Witham 1st Internal Drainage Board, West Lindsey District Council, Anglian Water Services Ltd)	Surface Water	2013-2014
Walcott - The Drift - Surface Water Flood Risk Investigations, Improvement Options and Works	Lincolnshire Lead Local Flood Authority (North Kesteven District Council, Anglian Water Services Ltd)	Surface Water	2013-2014
Cherry Willingham - Surface Water Flood Risk Investigations, Improvement Options and Potential Works	Lincolnshire Lead Local Flood Authority (Witham 3rd Internal Drainage Board, West Lindsey District Council, Anglian Water Services Ltd)	Surface Water	2013-2014
Folkingham - Billingborough Road - Surface Water Flood Risk Improvement Works	Lincolnshire Lead Local Flood Authority (South Kesteven District Council)	Surface Water	2013-2014

Work / Project Name	Lead Risk Management Authority (Other Risk Management Authority Partners Involved)	Flood Risk Source	Planned Delivery (Years)
Swaton - Surface Water Flood Risk Investigations, Investigations, Improvement Options and Potential Works	Lincolnshire Lead Local Flood Authority (Black Sluice Internal Drainage Board, North Kesteven District Council, Anglian Water Services Ltd.)	Surface Water	2013-2014
Construction of Grill Protection to 3 Syphons at Horbling Fen, Dunsby Fen and Little Hale Fen	Black Sluice Internal Drainage Board (Lead Local Flood Authority)	Lowland Ordinary Watercourses	2013-2014
Damford Pumping Station Flood Resilience Scheme	Black Sluice Internal Drainage Board	Lowland Ordinary Watercourses	2013-2014
Great Hale Fen Catchment Study	Black Sluice Internal Drainage Board (Environment Agency)	Lowland Ordinary Watercourses	2013-2014
Horbling Fen Pumping Station Weedsreen Cleaner (Health and Safety Scheme)	Black Sluice Internal Drainage Board	Lowland Ordinary Watercourses	2013-2014
Kirton Marsh Pumping Station Flood Resilience Scheme Investigations	Black Sluice Internal Drainage Board	Lowland Ordinary Watercourses	2013-2014
Wyberton Marsh Strategy Study and Improvement Works	Black Sluice Internal Drainage Board (Lincolnshire Lead Local Flood Authority, Boston Borough Council, Anglian Water Services Ltd)	Lowland Ordinary Watercourses	2013-2014
Mablethorpe Town Lane Drain Culvert - Structural Refurbishment	Lindsey Marsh Drainage Board (Lead Local Flood Authority,	Lowland Ordinary Watercourses	2013-2014

Work / Project Name	Lead Risk Management Authority	Flood Risk Source	Planned Delivery (Years)
	(Other Risk Management Authority Partners Involved)		
	East Lindsey District Council)		
Holbeach River Tidal Sluice Refurbishment	South Holland Internal Drainage Board (Environment Agency)	Lowland Ordinary Watercourses	2013-2015
Coulson Road, Lincoln - Pumping Station Refurbishment - Health & Safety Works	Upper Witham Internal Drainage Board	Lowland Ordinary Watercourses	2013-2017
Culverted Watercourse Lining in Boston	Witham 4th District Internal Drainage Board (Lead Local Flood Authority)	Lowland Ordinary Watercourses	2013-2018
Hobhole Pumping Station Refurbishment Programme	Witham 4th District Internal Drainage Board	Lowland Ordinary Watercourses	2013-2015

6.2 Joint programme of core activities planned to be carried out between 1st April 2013 and 31st March 2014

Description of activities	Risk Management Authority	Flood Risk Source
 Minor improvements to assets: Feasibility studies and scheme appraisal; Detailed design and procurement of contracts and materials etc; and Delivery of works. 	Environment Agency	Main Rivers and Sea
 Routine maintenance of assets: Asset condition inspection; System monitoring and operation; Maintaining structures; Grass cutting (Hand or mechanical); Weed control (mechanical and chemical); Pest/vermin control and tree Works; Defence repairs; Work on flood storage reservoirs; Obstruction removal and debris clearance from rivers; De silting and dredging; Pumping operations; Control of river water levels and flows on Main Rivers; Consenting and enforcement; Flood bank and channel reprofiling and reinstatement; and Environmental management. 	Environment Agency	Main Rivers and Sea

Emergency incidents, response and recovery:	Environment Agency	Main Rivers and Sea
Issue flood warnings;		
 Raise awareness amongst staff and site operatives; 		
 Monitor rainfall and water levels across Lincolnshire; 		
 Liaise with other Risk Management Authorities and emergency services; 		
 Implement pre-determined emergency response plans; 		
 Pre-plan resources and deploy staff and equipment; 		
 Open control rooms and manage/respond to incidents; and 		
 Work with partners on single agency and multi-agency responses. 		

Description of activities	Risk Management Authority	Flood Risk Source
 Minor improvements to assets: Replacement / installing of linear drainage units, chambers, covers, drain pipes and surface water sewers; Connections with new or existing installations; Replacement / installing of pipes outfalls to ditches, combination drainage units; and Undertake drainage system studies and CCTV investigations 	Lincolnshire Lead Local Flood Authority	Surface Water, Groundwater and flooding from Ordinary Watercourses
 Routine maintenance of assets: Cleaning and jetting of gullies; Drainage channel clearing; Manhole maintenance; Ditch/dyke cleansing; Inspection and maintenance of bridges and culverts; 	Lincolnshire Lead Local Flood Authority	Surface Water, Groundwater and flooding from Ordinary Watercourses

 Catchpit cleansing; and Grip cutting and clearing 		
 Emergency incidents, response and recovery: Raise awareness within organisations and with Alliance Partners; Implement pre-determined emergency response plans; Pre-plan resources and deploy staff and equipment; Work with partners and emergency services on single agency and multi-agency responses; and Open control rooms and manage/respond to incidents. 	Lincolnshire Lead Local Flood Authority	Surface Water, Groundwater and flooding from Ordinary Watercourses

Description of activities	Risk Management Authority	Flood Risk Source
 Repair, refurbishment and replacement of assets (including minor improvements): Feasibility studies and scheme appraisal; Detailed design and procurement of contracts and materials etc; and Delivery of works. 	Internal Drainage Boards	Lowland Ordinary Watercourses
 Routine maintenance of assets: Bridge and culvert inspections and cleansing; Removal of debris and blockages; Bank mowing my machine and by hand; Mechanical and hand weed clearance from channels; Chemical weed control; Bush and tree clearance; 	Internal Drainage Boards	Lowland Ordinary Watercourses

 Silt removal from channels and culverts; Operation and maintenance of pumping stations, outfalls and sluices; Asset Inspections and Condition Assessments; Consenting and enforcement; Reforming of watercourse banks and slip repairs; and Control of lowland ordinary watercourse water levels within District. 		
 Land Drainage Act Management; Consenting and enforcing of culverts, weirs, structures etc on board maintained and also riparian owned ordinary watercourses Enforcement in order to maintain flows on board maintained and all riparian owned ordinary watercourses 	Internal Drainage Boards	All non main river watercourses in existing IDB areas and extended areas throughout the County
 Emergency incidents, response and recovery: Raise awareness amongst staff and site operatives; Monitor rainfall and water levels within the drainage district; Liaise with other Risk Management Authorities; Implement pre-determined emergency response plans; Pre-plan resources and deploy staff and equipment; Open control rooms and manage/respond to incidents; and Work with partners and emergency services on single agency and multi-agency responses. 	Internal Drainage Boards	Lowland Ordinary Watercourses

Description of activities	Risk Management Authority	Flood Risk Source
 Major and Minor improvements to assets: Investigation of root cause; Feasibility studies and scheme appraisal; Detailed design through in house and contract resource; Delivery of works; and Provision of new assets. 	Water Companies	Public and Transferred Sewers and Drains
 Routine maintenance of assets: Asset condition inspection; Monitoring and response to telemetered assets; Maintenance of sewers; Maintenance of pumping stations; Maintenance of sewage treatment works; Reactive response to issues arising from public assets; and Maintenance of adopted flood storage reservoirs and structures. 	Water Companies	Public and Transferred Sewers and Drains
 Emergency incidents, response and recovery: Resilience focused response; Response to sewage and water related incidents; Raise awareness amongst staff and site operatives; Liaise with other Risk Management Authorities and emergency services; Plan resources and deploy staff and equipment; Open Incident room and manage/respond to incidents; and Work with partners on single agency and multi-agency responses. 	Water Companies	Public and Transferred Sewers and Drains

Description of activities	Risk Management Authority	Flood Risk Source
 Minor improvements and maintenance of assets: Undertake works on ordinary watercourses and liaise with riparian owners Bridge and culvert inspections and cleansing; Removal of debris and blockages; Silt removal from channels and culverts; Asset Inspections and Condition Assessments; and Operation and maintenance of pumping stations, outfalls and sluices. 	District, Borough and City Councils	Surface Water, Groundwater and flooding from Ordinary Watercourses
 Emergency incidents, response and recovery: Raise awareness amongst staff and site operatives; Monitor rainfall and water levels within the district; Liaise with other Risk Management Authorities; Implement pre-determined emergency response plans; Pre-plan resources and deploy staff and equipment; Open control rooms and manage/respond to incidents; and Work with public, partners and emergency services on single agency and multi-agency responses. 	District, Borough and City Councils	Surface Water, Groundwater and flooding from Ordinary Watercourses

7 Find Out More

This Strategy is available online at:

http://www.lincolnshire.gov.uk/residents/environment-and-planning/flood-riskmanagement/implementing-a-strategy-to-manage-flood-risk-countywide-andlocally/103045.article?tab=downloads

Hard copies are available on request. Postal enquiries should be sent to:

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