

## Maldon District Strategic Flood Projects and Maintenance Group Action Plan

### Introduction

Maldon District Strategic Flood Projects and Maintenance group was set up in May 2018 to bring together partners to review current flood projects and maintenance work **on half** yearly basis.

Partners consist of:

- Environment Agency
- Essex County Council
- Anglian Water
- Maldon District Council (Facilitator)
- Private Sector Partners including land owners as appropriate and as schemes being considered would benefit their input.

The aim of the group is to explore opportunities for flood mitigation measures in Maldon district and to work together to seek the most appropriate funding for delivery of such schemes in a planned and coordinated way.

The action plan details the projects being taken forward on a rolling twelve month basis and is reviewed at the half yearly meetings. Determination of the projects to be included is undertaken by each partner agency based on their own risk assessment (for example Environment Agency funding is prioritised based on the number of properties at risk whereas Anglian Water prioritise their funding based on number of recorded flooding incidents)

Maldon District Council plays a key role in providing evidence to the respective partners to assist with their assessment criteria.

Project Owner	Project Name	Details of Scheme	Project	Comments	Outcome	Date of Completion	Status
<b>MALDON DISTRICT STRATEGIC FLOOD PROJECTS &amp; MAINTENANCE PLAN 2018-2019</b>							
Environment Agency	Tollesbury Wick Re	Flood Defence <b>Maintenance</b>	Repairs to approx. 60m of concrete block revetment, including construction of new toe and extension of revetment where saltings have eroded away.	Contract awarded. Working through detailed design stage.	Maintain existing Standard of Protection	31/03/20	Design
Environment Agency	Rolls Farm revetment, Tollesbury	Flood Defence <b>Maintenance</b>	repairs to approx. 150m of concrete block revetment, with new toe to be constructed in some places.	Contract awarded. Working through detailed design stage.	Maintain existing Standard of Protection	31/03/20	Design
Environment Agency	Skinners Wick, Highams Farm, Lauristons Revetment Repairs	Flood Defence <b>Maintenance</b>	patchwork repairs in 3 separate locations along the north bank of the Blackwater	Patchwork repairs	Maintain existing Standard of Protection	31/10/18	Completed
Environment Agency	Bradwell waterside	Flood Defence <b>Maintenance</b>	Patchwork repairs				Design and feasibility stage
Environment Agency	Stokes Hall, Creekease	Flood Defence <b>Maintenance</b>	Revetment repairs and embankment repairs	Awaiting top soil and seeding of embankment during spring.	Maintain existing Standard of Protection	May 19	Construction
Environment Agency	Salcott Walls Slip repairs	Flood Defence <b>Maintenance</b>	Embankment reconstruction to repair slips in defence.	Contract awarded. Working through detailed design stage.	Maintain existing Standard of Protection	31/03/20	Design
Environment Agency	Abbotts Hall vegetation removal	Flood Defence <b>Maintenance</b>	removal of self set vegetation to allow inspection of asset	vegetation removal for to allow asset inspection	Maintain existing Standard of Protection	October	Completed
Environment Agency	Maylandsea Bay vegetation removal	Flood Defence <b>Maintenance</b>	removal of self set vegetation to allow inspection of asset	vegetation removal for to allow asset inspection	Maintain existing Standard of Protection	October	Completed
Environment Agency	Riverside Industrial Estate vegetation removal	Flood Defence <b>Maintenance</b>	removal of self set vegetation to allow inspection of asset	reviewing need	Maintain existing Standard of Protection	31/03/19	Design
Environment Agency	Woodrolfe Road Embankment improvements	Flood Defence <b>Maintenance</b>	reconditioning crest of embankment where heavy footfall leads to erosion	repairs to crest erosion	Maintain existing Standard of Protection	October	Completed
Environment Agency	Mundon Creek Revetment repairs	Flood Defence <b>Maintenance</b>	repairs to revetment and proection to toe	Patchwork repairs	Maintain existing Standard of Protection	31/03/20	Deffered
Environment Agency	Mill Beach Sea wall repairs	Flood Defence <b>Maintenance</b>	patchwork repairs to concrete block revetment				Design and feasibility stage
Environment Agency	Bounds Farm, Goldhanger revetment repairs	Flood Defence <b>Maintenance</b>	Revetment replacement work in two locations.	Temporary works to slow deterioration	Maintain existing Standard of Protection	September	Completed
Environment Agency	Mundon Wash Penstock replacement	Flood Defence <b>Maintenance</b>	replacement of penstocks		Maintain existing Standard of Protection	31/03/20	Design and feasibility stage

Project Owner	Project Name	Details of Scheme	Project	Comments	Outcome	Date of Completion	Status
Environment Agency	Maylandsea revetment repairs	Flood Defence <b>Maintenance</b>	replacement revetment at lower level of exposed face. Approx 20m	planning to deliver in-house	Maintain existing Standard of Protection	31/03/20	Design
Environment Agency	Bridgemarsh Creek Embankment Repairs	Flood Defence <b>Maintenance</b>	repairs to minor scour of embankment	Aim to deliver in house.			Design and feasibility stage
Environment Agency	Holliwell and Redward revetment repairs	Flood Defence <b>Maintenance</b>	replacement of approx. 50m of revetment and new toe construction.	Contract awarded. Work through detailed design stage	Maintain existing Standard of Protection	31/03/20	Design
Environment Agency	Grange Outfall overhaul	Flood Defence <b>Maintenance</b>	desilt of high level watercourse, flood embankment surveying and asset inspection	Part complete - fluvial desilt complete. Assessment of flap valves and potential replacement required.	Maintain existing Standard of Protection	31/03/20	Ongoing
Environment Agency	Burnham Flapped outfall replacements	Flood Defence <b>Maintenance</b>	Replacement of flapped drainage outfalls	Contract awarded. Work through design stage.	Maintain existing Standard of Protection	31/03/19	Design
Environment Agency	West althorne embankment repairs	Flood Defence <b>Maintenance</b>	repairs to minor scour of embankment	Design and planning stages	Maintain existing Standard of Protection	31/03/20	Design
Environment Agency	Heybridge Flood Alleviation Scheme	Flood Defence <b>Capital Project</b> looking at creating new assets	Potentially creating new assets but options also include Property Level Protection	The project is in its infancy following Countryside Properties withdrawal from their provision of FAS infrastructure linked to their delivery of the North Heybridge Garden Suburb development. Delivery of a new option (currently being evaluated by the Environment Agency) is highly likely to require financial support (Partnership Funding contributions) to add to eligible Flood Grant from Government funds in order to make the scheme affordable.	Construction of new assets (diversionary watercourse, improved flow conveyance or Property Level Resilience) that reduces the frequency and magnitude of flood damages	Aspirational target of March 2024	Options being identified to bring forward into an Outline Business Case. Strategic Outline Case has been submitted to Environment Agency Assurance Panel (NPAS)
Environment Agency	Lime Brook, Mundon Brook, Latchingdon Brook & Mayland Brook Flood Modelling Project	Detailed Flood Modelling <b>Study</b> .	To identify areas at risk of flooding from small watercourses that discharge to the south side of the Blackwater Estuary	To identify the frequency and magnitude of flood risks associated with these small watercourses, produce new flood maps for land use planning and to analyse the magnitude of risks associated with culvert blockages, the effectiveness of gravity sluice outfalls to the estuary taking into account estimated climate change increases to sea levels and to river flows over the next 100 years.	Improved Flood Map to support Land Use Planning and technical evidence base for supporting future work programmes (maintenance and new Flood Risk Management infrastructure)	Estimated for May 2019	Models currently being built and calibrated
Essex County Council	Maldon Central	Essex <b>Capital scheme</b>	Flood Storage potentially in Brickhouse Farm Maldon	We are still trying to resolve post construction asset adoption issues.			Design and feasibility stage

Project Owner	Project Name	Details of Scheme	Project	Comments	Outcome	Date of Completion	Status
Essex County Council	The Causeway	Essex Flood Management <b>initial assessment</b>	Detailed Flood Risk Appraisal Study are all sources of flooding. The study will examine the flood risk from all sources while taking into consideration Strategies, Plans and Assessments from past documents such as Catchment Flood Management Plans, Shoreline Management Plans, Surface Water Management Plans and River Basin Management Plans. In addition, the study will seek to outline the effects of the interaction between different flood risk sources and the impacts on <u>people and property</u> .	The initial assessment has been completed and it has been agreed that there would be no viable scheme. However funding is being sought for detailed study of flood risk in this location as part of The Causeway Masterplan			Exploring Funding Opportunities
Essex County Council	Burham	Property Level Resilience	Measures installed on Properties	4 applications received from Station Road, Burnham on Crouch. 3 PLR installations have been completed and 1 is still outstanding.			3 Completed, 1 outstanding
Essex County Council	Heybridge	Property Level Resilience	Measures installed on Properties	2 applications received and both properties have had installations completed			Completed
Essex County Council	Maldon	Property Level Resilience	Measures installed on Properties	3 applications received and the properties have had installations completed			Completed
ECC/MDC/ Anglian Water	Tollesbury	Potential Flood Alleviation Scheme details to be confirmed.	Design not confirmed awaiting further discussion	Partners engaging with AW to explore how this matter can be resolved. A number of Residents and Proprietors completed DG5 forms (AW) awaiting outcome.			In discussion with Partners
Wickham Bishops PC/Private Landowners	Wickham Bishops	Flood Alleviation Scheme potentially through ECC CIF	Details to be confirmed				In discussion with Partners

## Environment Agency

Under section 16 of the Floods and Water Management Act 2010, the Environment Agency administers FCRM grant-in-aid (GIA) on behalf of Defra.

We allocate capital and revenue funding to risk management authorities (RMAs) to manage and reduce flood and coastal erosion risk and Grant can be allocated to support worthwhile projects, studies and strategies.

In 2014 government announced a longer term capital funding settlement for FCERM from 2015 to 2021 and we developed a 6 year FCERM investment programme. We prioritise studies and projects nationally, using the partnership-funding system and conditions set by the board and announce the 'indicative allocation' of funding by the end of each December. The indicative allocation given to an individual RMA project will be the amount of capital grant eligible in line with the partnership-funding system, and may not be the full cost of the scheme.

Risk Management Authorities that can apply for FCRM grant-in-aid include maritime local authorities (LAs) for coastal erosion or, for flood risk, district, metropolitan district and county councils, and unitary authorities, and Internal Drainage Boards (IDBs). It also includes all London boroughs, highways authorities and water companies.

Each year we prepare a revenue maintenance programme. We use FCRM revenue grant in order to maintain flood risk assets. Our river and coastal maintenance programme aims to ensure that flood risk assets provide the required standard of service, for example to keep assets ready to operate and structurally sound to prevent failure. The revenue Grant settlement is currently agreed with Government on an annual basis and we are now developing a high level five-year forward look maintenance programme to show that there is an ongoing long term need for maintenance funding which will help provide the evidence needed for Spending Review 18 to support the case for a future five year funding settlement (as opposed to the current work planning vulnerability of the 1 year settlement).

## Essex County Council

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Awaiting update

## Anglian Water

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Awaiting Update