



Essex County Council

Essex Flood Partnership Board

10:00	Wednesday, 03 July 2019	Committee Room 1, County Hall, Chelmsford, CM1 1QH
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For information about the meeting please ask for:

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4	Essex Property Level Resilience update To receive a report (EFPB/09/19) and presentation from Charlotte Palmer, Flood Investigation Engineer and Jake Fell, Herts and North London PSO Team for the Environment Agency, on the progress Property Level Resilience delivery in Essex and Stansted Moutfitchet.	38 - 40

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| 5 | Essex Capital Flood Programme 2019-20 update
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| 6 | Coggeshall and Chelmsford Schemes - Environment Agency update
To receive a presentation from James Mason, Essex PSO Team Leader for the Environment Agency, on the progress of the Coggeshall and Chelmsford Schemes. | |
| 7 | Any Other Business | |
| 8 | Date of Next Meeting
To note that the next meeting of the Board will be held on Wednesday 23rd October 2019 at 10.00am County Hall, Chelmsford. | |

Exempt Items

(During consideration of these items the meeting is not likely to be open to the press and public)

The following items of business have not been published on the grounds that they involve the likely disclosure of exempt information falling within Part I of Schedule 12A of the Local Government Act 1972. Members are asked to consider whether or not the press and public should be excluded during the consideration of these items. If so it will be necessary for the meeting to pass a formal resolution:

That the press and public are excluded from the meeting during the consideration of the remaining items of business on the grounds that they involve the likely disclosure of exempt information falling within Schedule 12A to the Local Government Act 1972, the specific paragraph(s) of Schedule 12A engaged being set out in the report or appendix relating to that item of business.

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This meeting is not open to the public and the press although the agenda is available on the Essex County Council website, <https://www.essex.gov.uk>. From the

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Agenda item 1

Committee: Essex Flood Partnership Board

Enquiries to: Lisa Siggins, Democratic Services Officer

Membership, Apologies, Substitutions and Declarations of Interest

Recommendations:

To note

1. Membership as shown below
2. Apologies and substitutions
3. Declarations of interest to be made by Members in accordance with the Members' Code of Conduct

Membership	
Cllr Simon Walsh	Essex County Council
John Meehan	Essex County Council
Lucy Shepherd	Essex County Council
Peter Massie	Essex County Council
Peta Denham	Environment Agency
Rachel Keen	Environment Agency
Graeme Kasselmann	Thames Water
Jonathan Glerum	Anglian Water
Moira Bruin	Essex County Fire and Rescue Service
Cllr Dr Richard Moore	Basildon Borough Council
Cllr Wendy Schmitt	Braintree District Council
tbc	Brentwood Borough Council
Cllr Simon Hart	Castle Point Borough Council
Cllr Rose Moore	Chelmsford City Council
Cllr Lee Scordis	Colchester Borough Council
Cllr Nigel Avey	Epping Forest District Council
Cllr Danny Purton	Harlow District Council
Cllr Sue White	Maldon District Council
Cllr Arthur Williams	Rochford District Council
tbc	Tendring District Council
Cllr Gary Collins	Thurrock Council
Cllr Martin Terry	Southend on Sea Borough Council
tbc	Uttlesford District Council

Minutes of the meeting of the Essex Flood Partnership Board (Private Meeting), held in Committee Room 1 County Hall, Chelmsford, CM1 1QH on Wednesday, 03 April 2019

Present:

Present:

Members of the Board:

Cllr Simon Walsh (Chairman)	Essex County Council
Peta Denham	Environment Agency
Jonatham Glerum	Anglian Water
Cllr Ray Howard	Castle Point Borough Council
Rachel Keen	Environment Agency
John Meehan	Essex County Council
Cllr Richard Moore	Basildon District Council
Cllr Andrew St Joseph	Maldon District Council
Lucy Shepherd	Essex County Council
Cllr Arthur Williams	Rochford District Council

Other persons present (having signed the attendance book)

Trudie Bragg	Castle Point Borough Council
David Chapman	Essex County Council
Paul Hayden	RFCC
Charlotte Palmer	Essex County Council
Matthew Phipps	Southend Borough Council
David Prudence	Essex Highways
Tim Simpson	Essex County Council
Lisa Siggins	Essex County Council – Democratic Services

- 1 **Membership, Apologies, Substitutions and Declarations of Interest**
The report of the Membership, Apologies, Substitutions and Declarations was received, and It was noted that
 1. Moira Bruin was the new Essex County Fire and Rescue Service representative.;

2. The following apologies were noted:

Cllr Wendy Schmitt – Braintree District Council
Graeme Kastleman -Thames Water
Moira Bruin– Essex County Fire and Rescue Service
Cllr Gary Collins – Thurrock Council
Cllr Danny Purton – Harlow District Council
Cllr Nigel Avey – Epping Forest District Council
Cllr Vic Ranger – Uttlesford District Council
Peter Massie- ECC

3. There were no declarations of interest.

2 Minutes

The minutes of the meeting held on 23rd January were agreed as a correct record and signed by the Chairman.

3 Essex SuDS Guide Review

The Board received an update from Tim Simpson, Development and Flood Risk Manager on the review of the Essex SuDS which included:

- As an on-going part of the Lean review of the ECC's SuDS service, one of the areas identified as most in need for improvement was the number of holding objection that the LLFA issues when consulted on planning applications. With this as one of key areas for improvement highlighted as part of the review, the project team, working with the SuDS team, started to explore ways to improve these numbers.
- Two key areas were identified to help reduce the number of holding objections: working to increase the number of SuDS planning advice meetings that take place with developers and focusing the SuDS guide more on the ultimate goal of the service which is to enable developers to meeting planning criteria while delivering high quality drainage solutions with multiple benefits.
- Some small changes are proposed to the current guide both to ensure that the format is up to date and that the guidance is as clear as possible. Additionally, there will be a review of topics that vary from national standards to ensure that all current policies are as robust as they can be.
- A draft document is currently being finalised for internal consultation. Thereafter, it is intended to consult partners, including Board members, on a refined version of the document at the start of May. The consultation will also include LPAs, some developers and consultants who are considered key users of the document. Following consultation and a period of further refinement it is hoped that an updated version of the document will be published towards the middle of the summer.

Jonathan Glerum of Anglian Water advised the Board that their guide entitled "Sewers for Adoption" now included a reference to SuDs within its guidance and a new OFWAT code that would come into force in 2020. He felt that it would be beneficial if the ECC document also made reference to the said code.

In response to a Member question it was confirmed that the associated costs would be met through existing water bill/sewer charge revenue.

4 Essex Property Level Resilience update

To receive a report (**EFPB/06/19**) from Charlotte Palmer, Flood Investigation Engineer, on the progress of the new Property Level Resilience Contract and delivery.

Ms Palmer advised the Board that she had taken over responsibility for this area of work from Dipo Lafinhan and highlighted the key issues from the above-mentioned report which included:

- The 2018/19 Essex Flood Property Level Resilience (PLR) project will be 100% funded from grants and payments from external organizations such as the Environment Agency and Anglian Water.
- ECC have an agreement with Anglian Water to complete PLR measures to a minimum of 40 residential properties in Essex on their DG5 (Anglian Water Flood Risk Register) register. This is fully funded by Anglian Water; therefore, there will be no further financial implications to ECC
- Delivery 18 + 3 (21) PLR installations in Felixstowe on behalf of Suffolk County Council. This is fully funded by Suffolk County Council.
- Progress of delivery by Lakeside Solutions (the new supplier to ECC) – full details of which were contained in the report
- The Environment Agency are planning to use ECC services for delivery of PLR to ~50 properties in Stanstead Mountfitchet (which are a mixture of residential and commercial)
- The contract with Lakeside is due for renewal the end of May, the decision has been made to extend this for another year until May 2020. The Essex Floods Team is currently working with the Procurement Services Team to obtain the appropriate governance sign off needed to approve the contract extension.

The Board were advised that ECC are looking at ways to publicise and promote PLR and welcomed ideas in this regard. It was stressed that this is a valuable service and the contract is flexible which will benefit external/partner organisations.

In response to a question raised, it was confirmed that where a property has been the subject of a flood a resurvey is usually carried out and advice

provided. It was however stressed that PLP is not a 100% guarantee against flooding but works to reduce its impact.

The Chairman thanked Charlotte Palmer for her update.

The Board **NOTED** the report and the update.

5

2018-19 Essex Capital Flood Programme

The Board received a report (**EFPB/07/19**) and a PowerPoint presentation from Dave Chapman, Project Delivery Manager, on the progress of schemes in the Capital Programme. Mr Chapman advised that the report contained all the relevant information and highlighted the following:

- The Flood Team has generated a total of £1.57m worth of external funding as a result of the work have carried out on this year's capital programme. The amount of income generated by the capital programme is 36% of our annual budget, which is above the 25% target that was set at the start of the year.
- The total number of properties benefitting from reduced surface water flood risk as a result of all completed schemes on the 2018/19 capital programme is 383; this exceeds the target of 377 that was set at the start of the financial year.

The PowerPoint presentation gave pictorial examples of completed schemes.

The Board **NOTED** the report

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Any Other Business

Lucy Shepherd and John Meehan advised the Board that consideration is being given to expanding the scope of Board. This would include a focus on flood resilience, increased partnership working and raised public awareness. John Meehan highlighted the multi benefit success of the Sponge 2020 project.

Jonathan Glerum of Anglian Water took the opportunity to show the Board a PowerPoint presentation and gave an overview of "Making Rain Happy" – which is the public face of the first ever 25-year surface water management plan produced by Anglian Water. He explained that support from external partners would be welcomed.

Councillor Howard raised an issue that is causing concern in his district regarding a privately-owned caravan park. There are concerns that the owners/developers are not adhering to regulations and he asked that the Environment Agency investigate the situation. The Chairman confirmed that he would also refer this issue to the minerals and waste planning authority.

Peta Denham of the Environment Agency asked for permission to bring an item regarding a new EA strategy to the July meeting of the Board.

7

Date of Next Meeting

The Board noted that the next meeting would be held on Wednesday 3rd July 2019, at 10.00am County Hall Chelmsford.

The meeting closed at 11.30 am

Chairman

Report to: Essex Flood Partnership Board	Report Number: AGENDA ITEM 3 (EFPB/08/19)
Date of report: 19/06/2019	County Divisions affected by the decision: All
Title of report: National Flood and Coastal Erosion Risk Management Strategy for England: Essex County Council Response	
Report by: Lucy Shepherd, Lead Local Flood Authority Manager	
Head of Service: John Meehan Head of Planning and Environment	
Enquiries to: Lucy Shepherd - 03330 136742	

1. Introduction

- 1.1 The Draft National Flood and Coastal Erosion Risk Management (FCERM) Strategy for England Consultation is currently [live](#).
- 1.2 This consultation is important for Essex County Council (ECC) and other Risk Management Authorities (RMAs) to respond to because it sets out the future vision for us all to tackle Flood and Coastal Erosion Risk Management up to 2100.
- 1.3 The draft document is 64 pages in total. It has 3 Ambitions, all relating to climate change resilience, growth, adaptation and innovation. Under these ambitions are 15 Strategic Objectives and 36 Measures proposed to deliver them.
- 1.4 20 of the 36 Measures propose continued or new activity by collective 'Flood Risk Management Authorities' (all key members of the Essex Flood Board are defined as one of these) and 3 measures are specifically for Lead Local Flood Authorities (All County and Unitary Authorities, Essex, Southend and Thurrock).
- 1.5 The consultation is running for 8 weeks from 9 May to 4 July 2019. For further information and to respond, please use this link: <https://consult.environment-agency.gov.uk/fcrm/national-strategy-public>

2. Purpose of report

- 2.1. Although the deadlines do not allow us to submit a collaborative response. We would like to encourage all Essex Flood Board members to respond to this consultation in their own right as Flood Risk Management Authorities.

- 2.2. We are unable to invite Flood Board discussion on the attached Essex County Council response, but we wish to share it with all Flood Board Members for information and interest.

3. Response Summary

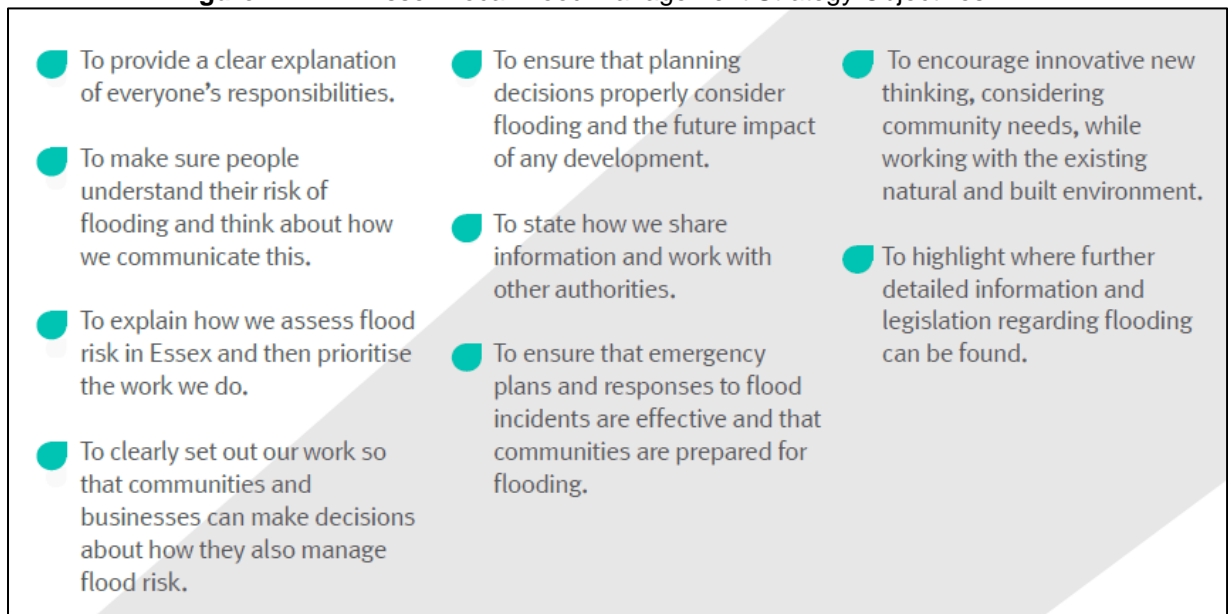
- 3.1. Appendix A provides the full response from Essex County Council. This may still be subject to minor change due to the deadline being 4th July 2019.
- 3.2. In short, we feel the Strategic Objectives are very much what our services are striving for already and felt 'complete agreement' with all 15 is a representative response.
- 3.3. We believe we are already taking a lead in many of the proposed measures, demonstrated by the award-winning Natural Flood Management scheme in Harlow, climate change adaptation SPONGE 2020 project, Property Level Resilience (PLR) scheme success and expert SUDS planning advice services.
- 3.4. Since 2010 ECC has also prioritised our detailed Surface Water Management Plan delivery (10 studies in total) to enable our partners and public to be better informed and 'ready for' surface water flooding in Essex.
- 3.5. This said we are looking forward to further progressing the new strategy ambitions. There are several 'cross-cutting' workstreams emerging within the Place and Public Health function at Essex County Council which will embrace opportunities for water resources, sustainable growth, public health and climate change adaptation. Linking to the themes of the FCERM Strategy Ambitions 1 and 2.
- 3.6. Within our Waste and Environment service we also know that individual behavior is key to tackling many environmental challenges. Our corporate strategy calls for us to 'Enable local communities to identify their own local issues and tackle them, by using their own assets'. We are working with internal and external partners on these messages and piloting schemes that focus on community buy-in, relating to the FCERM Strategy Ambition 3.
- 3.7. We feel that elements of the strategy could be even more ambitious and descriptive. But we have proposed caution around some of the financial or resource implications, since priorities can be competitive within local government. Where local flexibility remains, we will be striving to keep on as leaders in testing and delivering the proposed measures.
- 3.8. In addition to providing the attached response, Essex County Council also took part in the Consultation Workshop Session in London on 03 June 2019 and

feedback discussions at the Regional Flood and Coastal Committee Annual Engagement Event (Essex) on the 12 June 2019.

4. Impact on the Essex Local Flood Risk Management Strategy

- 4.1. Essex published its first Local Flood Risk Management Strategy in 2012 and has since recently refreshed the document in 2018. During this period and since becoming a Lead Local Flood Authority we have maintained the same 9 core objectives:

Figure 1 Essex Local Flood Management Strategy Objectives



- 4.2. Following the publication of the Coastal Erosion Risk Management Strategy for England (expected 2020) we may choose to review these objectives.
- 4.3. Measure 1.2.5 of the National FCERM Strategy currently proposes that by 2026 lead local flood authorities will update their local flood risk strategies to incorporate adaptive approaches to planning for flood and coastal resilience.
- 4.4. Our 2018 refresh of the Essex Local Flood Management Strategy provided a 'living' document that could be easily maintained and adapted to reflect current approaches. Residents of Essex will likely remain the target audience for this document.

Consultation Response Form

Draft Flood & Coastal Erosion Risk Management National Strategy for England

We welcome your views on the Flood & Coastal Erosion Risk Management National Strategy for England. Please use this form if you are responding by email or post rather than online.

If you would like to respond online, please use this link: <https://consult.environment-agency.gov.uk/fcrm/national-strategy-public>

The consultation document and supporting evidence documents are also available using the link above. We would encourage you to read them. If you would like a hardcopy, please email us at FCERMstrategy@environment-agency.gov.uk or write to us at the address provided in the 'Returning your response' section below.

Please complete the questions and where there is a free text field, give as much information as possible to support your answer.

Returning your response

The consultation will run for 8 weeks from 9 May to 4 July 2019. Any responses we receive after this date will not be included in the analysis.

We would like you to use this form if you are not submitting your response online. You can return it by email to FCERMstrategy@environment-agency.gov.uk using the heading 'FCERM National Strategy Consultation'.

Please also use this email address if you have any questions regarding this consultation.

Or post your completed form to:

FCERM National Strategy Consultation
FCRM Strategy Team c/o Morena Staiano
Environment Agency
Horizon House
Deanery Road
Bristol
BS1 5AH

How we will use your information

We are running this consultation in accordance with our Privacy Notice. A copy of the Privacy Notice is provided at the end of this document and we would encourage you to read this.

The Environment Agency will look to make all responses received online via our consultation website publicly available during and after the consultation. We will not be publishing consultation responses which are received by email or post, unless you specifically tell us to do so.

We will not respond individually to responses. After the consultation has closed we will publish a summary of the responses on our website. We will not publish names of individuals who respond but we may publish the name of the organisation for those responses made on behalf of organisations.

In accordance with the Freedom of Information Act 2000, we may be required to publish your response to this consultation, but will not include any personal information. If you have requested your response to be kept confidential, we may still be required to provide a summary of it.

Section 1: About you

To help us analyse the responses we receive we'd like to understand more about you and, if applicable, the type of organisation and business you represent.

Please tell us if you are responding as an individual or on behalf of an organisation or group:
(Please select one answer)

- ☐ Responding as an individual who has been directly affected by flooding and coastal change
- ☐ Responding as an individual who has NOT been directly affected by flooding and coastal change
- ☐ Responding as an individual employed by/volunteering for an organisation but not responding on behalf of the organisation
- ☒ Responding on behalf of an organisation or group (representing collective views)
- ☐ Other

If 'other', please specify:

If you are representing collective views, please specify which organisation or group and what type it is, e.g. environmental group, business:

Essex County Council (ECC) as the Lead Local Flood Authority.

Please continue to the next page.

Section 2: Introduction and setting the context

Q1. To what extent do you agree with the vision: A nation ready for, and resilient to, flooding and coastal change - today, tomorrow and to the year 2100? (Please select one answer)

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Since 2010 ECC has prioritised a series of detailed Surface Water Management Plans (10 in total) to enable our partners and public to be better informed and 'ready for' surface water flooding in Essex. Our 2015-2020 Capital Programme subsequently delivered flood protection in priority communities and has won an award for a local Natural Flood Management scheme. By the end of the capital programme we would have reduced flood risk to approximately 1,300 residential properties in Essex. Alongside this we have also promoted our uniquely customer focused Property Flood Resilience initiative. This has provided resilience and resistance measures to about 230 residential properties and counting. This PFR initiative is now financially self-sustaining therefore ensuring Essex residents are able to better make themselves more resilient to future flooding. We and our partners back the future flood resilience vision.

The following question relates to the strategic overview role of the Environment Agency. The relevant section within the draft strategy can be found on page 12.

Q2. To what extent do you agree with the Environment Agency's proposed strategic overview role as set out in the chapter 'setting the context for the draft strategy'? (Please select one answer)

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)

- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

The Environment Agency (and RFCCs) are in a privileged position to enable the sharing of best practice, local learning and experience. As well as references to 'leading' and 'overseeing' the EA should consider their role in enabling collaboration and improved sharing of strategic information between regions/FRMAs/RFCC.

Section 3: Climate resilient places

We are asking for views about all of the strategic objectives and measures, however please do not feel you must answer all of these questions. If you don't have views to share, please leave the question blank.

Q3a. To what extent do you agree with strategic objective 1.1: Between now and 2050 the nation will be resilient to future flood and coastal risks. Over the next year the Environment Agency will work with partners to explore and develop the concept of standards for flood and coastal resilience? (Please select one answer)

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

We completely support the strategic objective and we would also like this to be followed by tools to help LLFAs such as ourselves to contribute to the delivery of this objective.

Q3b. Please provide comments on the measures described under strategic objective 1.1, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 1.1 can be found on page 22 of the draft strategy document)

Measure 1.1.1 - We would welcome proposed changes to the appraisal guidance for flooding and coastal change projects, for as long as these changes reflect the reality of LLFAs. We mostly deliver schemes resulting from 'local' flooding. These are smaller scale schemes when compared to the main river and coastal change schemes typically delivered by the EA. It makes no sense to have a 'one size fits all' approach when appraising flood schemes which originate from different types of flood risks and would be delivered by different types of risk management authorities. If we are to reduce the risk from natural hazards and adapt to and mitigate climate change, the appraisal methodology through which schemes would be allocated funding must reflect the nature of the flood risk being considered.

Measure 1.1.2 - Should we be aspiring to develop more than a 'concept' of standards for flood and coastal resilience as this is the key vision of the National Strategy? It would also be very useful to know if the EA would be adopting the national standard of food resilience proposed by the National Infrastructure Commission. Adopting these standards would have implications on how 'local' flood risk management schemes are delivered (schemes resulting from flood risk from ordinary watercourses, ground water and surface water flooding). It is not clear which flood resilience is being referred to, is this main river and coastal erosion resilience or does this refer to flood risk from all sources.

Q4a. To what extent do you agree with strategic objective 1.2: Between now and 2050 risk management authorities will help places plan and adapt to flooding and coastal change across a range of climate futures? (Please select one answer)

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

All risk management authorities would achieve this task more consistently and effectively if there were open avenues for collaboration. Knowledge/skills gap, procurement and governance can be prohibitive. It would be very helpful for the EA to provide instruments that promote partnership working between risk management authorities.

Q4b. Please provide comments on the measures described under strategic objective 1.2, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 1.2 can be found on page 26 of the draft strategy document)

Measure 1.2.6 - Will there be guidance or support/workshops for LLFAs to discuss and define what 'adaptive' approaches may be deliverable within their own local strategy context? When some 'adaptive' becomes business as usual will further innovation be required? A crucial stakeholder in implementing an adaptive approach to resilience would be the local planning authorities and the building regulation experts. At the moment, their functions are not congruous with those of the EA. It would be very prudent if any guidance and frameworks developed by the EA for a national audience take these stakeholders into consideration. Furthermore, it is not clear if the approach being outlined refers to new and/existing building stock and infrastructure. These two categories would probably require different approaches and the EA needs to take this under consideration.

Q5a. To what extent do you agree with strategic objective 1.3: Between now and 2030 all those involved in managing water will embrace and embed adaptive approaches to enhance the resilience of our environment to future flooding and drought? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

We strongly support this approach and we are already implementing some of these measures of Natural Flood Management and slowing the flow in Essex.

Q5b. Please provide comments on the measures described under strategic objective 1.3, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 1.3 can be found on page 29 of the draft strategy document)

Measure 1.3.1 - Maintaining flexibility in natural flood management solutions is important although the aspiration is to 'mainstream' this. The multiple benefits of NFM solutions should be promoted more strongly within other sectors such as agriculture, public health and economic growth/communities. There is no reference to cross-sector collaboration. There is no mention of incorporating NFM solutions into the proposed flood appraisal guidance modification.

Q6a. To what extent do you agree with strategic objective 1.4: Between now and 2030 risk management authorities enhance the natural, built and historic environments so we leave it in a better state for the next generation? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

We strongly believe that the delivery of flood risk management schemes should consider other benefits such as ecological, social, recreational, economic and psychological. As a corollary, we recognise the utility of ensuring that flood risk management schemes result in a better environment, provide benefits to not only people but the local habitat and as much as possible do not result in increased carbon emissions and in some cases should act as a carbon sequester.

Q6b. Please provide comments on the measures described under strategic objective 1.4, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 1.4 can be found on page 30 of the draft strategy document)

Measure 1.4.1 - The requirement of FRMA investments cannot be guaranteed if the request is financial. Each project would be assessed on its own merits and considered locally before any commitments are made. The measure could be amended to more accurately reflect the reality of this situation and propose improving the environment through continued adaptive development/projects and partnership working etc.

Q7a. To what extent do you agree with strategic objective 1.5: Between now and 2030, risk management authorities will use funding and financing from new sources to invest in making the nation resilient to flooding and coastal change? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

We support this strategic objective as we are actively engaging in partnership funding and we are constantly looking for new sources of funding for our flood risk management schemes. However, this should be in the context of the current financial pressures on local government funding and these should be a recognition by the EA that a lot of LLFAs are currently under severe funding pressures and any EA work on green finance strategy should take the requirements of LLFAs on board.

Q7b. Please provide comments on the measures described under strategic objective 1.5, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 1.5 can be found on page 31 of the draft strategy document)

Measure 1.5.2 - The definition of 'test' is not clear. Does this mean consider the option of upfront financing, or committing to actually pilot the principle and deliver projects in this way? FRMAs should be open to considering finance options, where appropriate and cost-beneficial to do so within the local context. This measure is currently ambiguous.

Section 4: Today's growth and infrastructure - resilient to tomorrow's climate

We are asking for views about all of the strategic objectives and measures, however please do not feel you must answer all of these questions. If you don't have views to share, please leave the question blank.

Q8a. To what extent do you agree with strategic objective 2.1: Between now and 2030 all new development will contribute to achieving place based resilience to flooding and coastal change?

(Please select one answer)

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q8b. Please provide comments on the measures described under strategic objective 2.1, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 2.1 can be found on page 34 of the draft strategy document)

Measure 2.1.1 - The LLFA has appropriate training budgets in place to ensure that the team is appropriately skilled to provide advice on climate resilient design. Local and national skills matrices will help to ensure that LLFAs have access to the appropriate training and guidance. However, other RMAs may not be as well informed. When LLFA's took on their role as a statutory consultee to the planning process there was an assumption that Local Planning Authorities (LPAs) would build up an increased knowledge of SuDS and flood risk. This was intended to reduce the burden on LLFAs over time. This has not been the case due limited funding available to LPA to commission training and no funds available for LLFAs to provide this training on top of responding to consultation which already puts pressure on limited resources. More information should be provided about the levels of investment expected and which RMAs should provide this.

Measure 2.1.2 - It is not clear how all new development will be required to contribute to achieving place-based resilience – how will it be monitored and enforced? If an adaptive approach to flood management is expected to be incorporated into strategic local plans then it is essential that the Ministry for Housing Communities and Local Government also ensure that appropriate legislation is incorporated into planning law. Without this attempts to include adaptive design may be challenged at examination in public.

Q9a. To what extent do you agree with strategic objective 2.2: Between now and 2030 all new development will seek to support environmental net gain in local places? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q9b. Please provide comments on the measures described under strategic objective 2.2, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 2.2 can be found on page 35 of the draft strategy document)

Measures 2.2.1 Will biodiversity net gain be of equal weighting to other outcome measures with in the new investment programme? This may influence how 'achievable' the measure is.

Measures 2.2.2 - Essex County Council has implemented a Green Strategy (2019) which includes links to environmental gain as part of strategic planning (?)

Q10a. To what extent do you agree with strategic objective 2.3: Between now and 2030 all risk management authorities will contribute positively to local economic regeneration and sustainable growth through their investments in flooding and coastal change projects? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q10b. Please provide comments on the measure described under strategic objective 2.3, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 2.3 can be found on page 38 of the draft strategy document)

Measure 2.3.1 - Will regeneration and sustainable growth outcome measures feature in the new investment programme? This may influence how 'achievable' the measure is. The current flood appraisal methodology only takes into account physical benefits of flood risk management and does not encourage RMAs to look beyond the flood protection utility of projects. We usually tailor our business case to one audience, the EA and other potential funders i.e. economic growth, infrastructure delivery and green infrastructure do not necessarily have any use for the EA tailored business cases. As financially challenged LLFAs, we do not have the resources to produce business cases for multiple audiences therefore at the moment our hands are tied and we currently have a choice of delivering projects along the lines of the EA appraisal guidance with guaranteed funding levels or take a risk with a scheme for multiple audiences whose funding would not be guaranteed and thus extremely risky.

Q11a. To what extent do you agree with strategic objective 2.4: Between now and 2050 places affected by flooding and coastal change will be 'built back better' and in better places? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q11b. Please provide comments on the measures described under strategic objective 2.4, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 2.4 can be found on page 39 of the draft strategy document)

New Measures - Should there be a measure relating to Property Flood Resilience funding and pathfinders? There could be more emphasis to ensure new development is flood resilient where there are residual risks of flooding due to asset failure.

Q12a. To what extent do you agree with strategic objective 2.5: Between now and 2030 all flooding and coastal infrastructure owners will understand the responsibilities they have to support flood and coastal resilience in places? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q12b. Please provide comments on the measures described under strategic objective 2.5, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 2.5 can be found on page 41 of the draft strategy document)

Measure 2.5.1 - will this relate only to 'assets' which are deemed locally significant in terms of flood risk (S21 FWMA 2010) or will it extend to all local flood infrastructure, riparian responsibilities, SUDS features etc. There is a need for this in the long term.

Q13a. To what extent do you agree with strategic objective 2.6: Between now and 2050 the Environment Agency and risk management authorities will work with infrastructure providers to ensure all infrastructure investment is resilient to future flooding and coastal change? (Please select one answer)

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q13b. Please provide comments on the measures described under strategic objective 2.6, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 2.6 can be found on page 43 of the draft strategy document)

Please continue to the next page.

Section 5: A nation of climate champions, able to adapt to flooding and coastal change through innovation

We are asking for views about all of the strategic objectives and measures, however please do not feel you must answer all of these questions. If you don't have views to share, please leave the question blank.

Q14a. To what extent do you agree with strategic objective 3.1: Between now and 2030 young people at 16 should understand the impact of flooding and coastal change, but also recognise the potential solutions for their place, and opportunities for career development? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Please continue to the next page.

Q14b. Please provide comments on the measure described under strategic objective 3.1, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 3.1 can be found on page 48 of the draft strategy document)

Measure 3.1.1 - This perhaps should be encompassing of all age groups, not just young people. Many Flood Risk Management Authorities and other Category 1&2 responders already implement education programmes around flooding and flood risk. A wide ranging consultation should be involved as part of this measure to agree consistent messaging and remove confusion around roles/responsibilities.

Q15a. To what extent do you agree with strategic objective 3.2: Between now and 2030 people will understand the potential impact of flooding and coastal change on them and take action? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q15b. Please provide comments on the measures described under strategic objective 3.2, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 3.2 can be found on pages 49 and 50 of the draft strategy document)

Q16a. To what extent do you agree with strategic objective 3.3: Between now and 2030 people will receive a consistent and coordinated level of support from all those involved in response and recovery from flooding and coastal change? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q16b. Please provide comments on the measures described under strategic objective 3.3, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 3.3 can be found on page 51 of the draft strategy document)

Measure 3.3.1 - Despite Pitt Review and FWMA 2010 there is still a gap in terms of the surface water flood emergency response role. LLFAs have clear direction in terms of preparedness and in the recovery, but they currently have no statutory role, resources or skills to deal with a surface water event response phase. In addition to clarity of roles, this measure should also seek to define when a surface water event is classed as a 'major incident' within the emergency planning field. Using the local example of Canvey Island flooding in 2014, potentially up to 1000 properties were affected but the event was not classified as a major incident (recommendations of the peer review of our S19 flood investigation report may be interesting <https://www.gov.uk/government/publications/canvey-island-flood-investigation-peer-review>)

Q17a. To what extent do you agree with strategic objective 3.4: Between now and 2030 the nation will be recognised as world leader in managing flooding and coastal change, as well as developing and attracting talent to create resilient places? *(Please select one answer)*

- ☐ No agreement
- ☐ Some limited agreement (I can agree in part, but not entirely)
- ☐ Basic agreement (I can live with it)
- ☐ Strong agreement (I can support it)
- ☒ Complete agreement (I can support it wholeheartedly)
- ☐ I don't know
- ☐ Not applicable

Please explain your answer:

Q17b. Please provide comments on the measures described under strategic objective 3.4, and tell us about any additional measures you think there should be, and who could implement them.

(The measures for strategic objective 3.4 can be found on page 53 of the draft strategy document)

Section 6: Any other comments

Q18. Please provide any other comments:

What does the EA want the LLFAs to deliver as part of this strategy ? will there be funding made available for any extension in (statutory or non-statutory) responsibilities? Is it affordable? What political commitment to this is there?

Section 7: Strategic Environmental Assessment Environmental Report

Only respond to these questions if you wish to comment on the Strategic Environmental Assessment of the draft strategy.

You will need to refer to the Strategic Environmental Assessment environmental report that you can download from the consultation website: <https://consult.environment-agency.gov.uk/fcrm/national-strategy-public>

Do you agree with the conclusions of the environmental assessment? (Please select one answer)

☒ Yes

☐ No

If not, please explain why:

Are there any further significant environmental effects (positive or negative) of the draft strategy you think should be considered?

☐ Yes

☒ No

If yes, please describe them:

Are there further mitigations for potential negative effects or opportunities to achieve positive effects that should be considered for the final national FCERM strategy?

- ☐ Yes
☒ No

If yes, please give details:

Privacy notice

We are the Environment Agency and we are running the creation, publication and implementation of a national flood and coastal erosion risk management strategy for England. We are the data controller for this process. A data controller determines how and why personal data (personal information) is processed. Our personal information charter (www.gov.uk/government/organisations/environment-agency/about/personal-information-charter) explains how we deal with your personal information. Go to GOV.UK and search 'Environment Agency personal information charter'.

The personal data we collect about you includes:

- Your email address
- Responses, feedback, queries and comments you leave, including information that may reveal your identity if you choose to include in your response
- Full name and contact details including addresses, emails or phone numbers if you contact us and include this information
- Whether you are responding to the consultation as an individual or on behalf of an organisation or group, and the name and type of your organisation or group

We are allowed to process your personal data because you consent to us doing so by responding to this consultation. You have the right to withdraw consent at any time. The lawful basis for processing your personal data is consent.

What we do with your personal data

Public consultation

The Environment Agency will look to make all responses received online via our consultation website (Citizen Space) publicly available during and after the consultation, unless you have specifically requested that we keep your response confidential. We will not be publishing consultation responses which are not received online via our consultation website, unless you specifically tell us to do so.

Throughout the consultation we will look to make all comments received online (excluding personal information) publicly available on our website, unless you have specifically requested that we keep your response confidential. We will not publish personal data. But we may publish the name of the organisation for those responses made on behalf of organisations. We will not publish names of individuals who respond.

We will also publish a summary of all responses on our website in which we may publish the name of the organisation for those responses made on behalf of organisations.

We will not respond individually to responses. After the consultation has closed we will publish a summary of the responses on our website.

In accordance with the Freedom of Information Act 2000, we may be required to publish your response to this consultation, but will not include any personal information. If you have requested your response to be kept confidential, we may still be required to provide a summary of it.

Developing the strategy

We will use your views to develop the strategy but will not identify you in the strategy. We will only share the minimum amount of your personal data as necessary with internal colleagues who are providing expert advice on developing the strategy. We will also share your views with external stakeholders who are taking part in analysing consultation responses, but we will ensure that you are not identifiable from the information we provide.

If you provide them, we will use your name and contact details to contact you if we have any queries about the information you've provided.

How long we keep your personal data

We will keep your views, and any personal data you have included in your response, as part of our records until these have been superseded by a new flood and coastal erosion risk management strategy for England.

Where your personal data is processed and stored

We store and process your personal data on our servers in the UK. We will not transfer your personal data outside the European Economic Area.

Contact details

Our Data Protection Officer (DPO) is responsible for independent advice and monitoring of the Environment Agency's use of personal information.

If you have any concerns or queries about how we process personal data, or if you would like to make a complaint or request relating to data protection, please contact our DPO using the following details:

Address: Data Protection Officer

Environment Agency

Horizon House

Deanery Road

Bristol

BS1 5AH

Email: dataprotection@environment-agency.gov.uk

You can find out about your personal data rights from the Information Commissioner's Office (ICO) at www.ico.org.uk. The ICO regulate the data protection legislation. You have the right to lodge a complaint with them at any time.

Consultation Principles

We are running this consultation in accordance with the guidance set out in the government's Consultation Principles. More information is available here <https://www.gov.uk/government/publications/consultation-principles-guidance>

If you have any queries or complaints about the way this consultation has been carried out, please contact:

Lucy Payne, Consultation Co-ordinator
Environment Agency
Orchard House,
Endeavour Park,
London Road,
Addington,
ME19 5SH

Email: lucy.payne@environment-agency.gov.uk

Report to: Essex Flood Partnership Board	Forward Plan reference number: (EFPB/09/19) AGENDA ITEM 4
Date of report: 03/07/2019	County Divisions affected by the decision: All
Title of report: Essex Property Level Resilience update	
Report by: Charlotte Palmer, Flood Investigation Engineer	
Head of Service: John Meehan Head of Sustainability and Resilience	
Enquiries to: Charlotte Palmer 03330 130279	

1. Purpose of report

- 1.1. To highlight the progress of the delivery of the 2018/19 phase of the PLR project, and highlight the plans for the delivery of the 2019/20 phase.

2. Background

- 2.1. The grant is capped at £5,000 per property and the applicants would have to make payment themselves if measures needed exceed the grant threshold.
- 2.2. The 2018/19 Essex Flood Property Level Resilience project will be 100% funded from grants and payments from external organizations such as the Environment Agency and Anglian Water.
- 2.3. Furthermore we have an agreement with Anglian Water to complete Property Level Resilience measures to a minimum of 40 residential properties in Essex on their DG5 (Anglian Water Flood Risk Register) register. This is fully funded by Anglian Water; therefore there would be no further financial implications to Essex County Council.
- 2.4. We are also delivering 18 + 3 (21) PLR installations in Felixstowe on behalf of Suffolk County Council. This is fully funded by Suffolk County Council.

3. Project progress

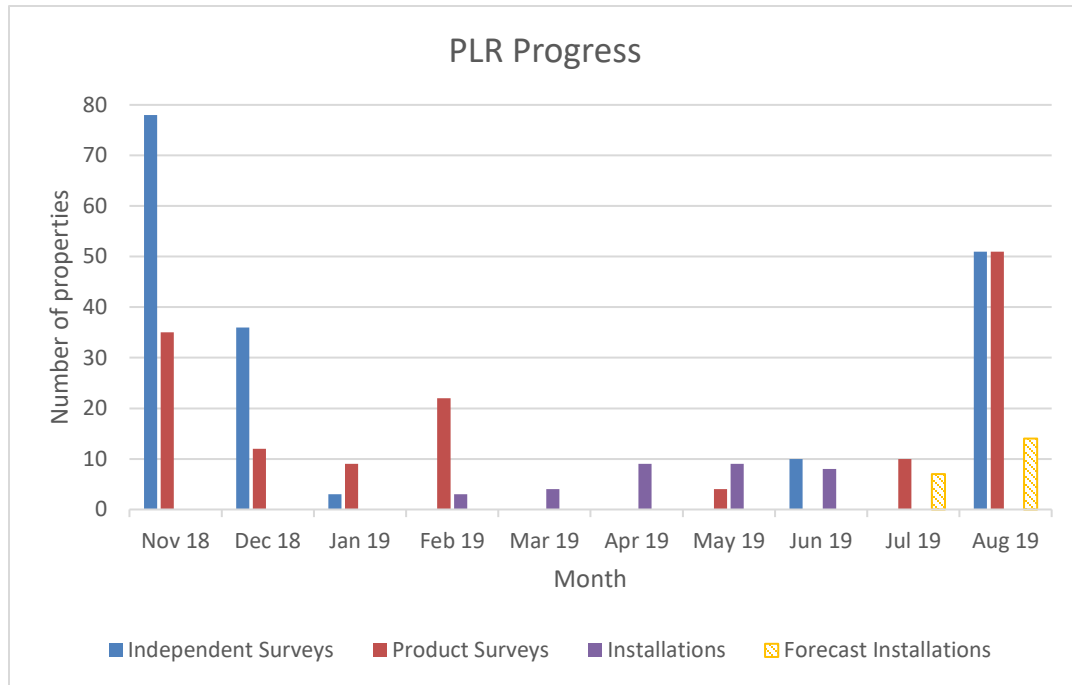
- 3.1. Lakeside Flood Solutions have progressed with the 78 carry over of independent surveys into product surveys. This alongside an additional 49 independent surveys organized by Lakeside have allowed them to complete 92 product surveys.
- 3.2. They have completed 33 property installations since contract start (November) with forecasts for July and August to be steadily increasing as quotes are accepted from the product surveys.
- 3.3. The Environment Agency are using our services for delivery of PLR to ~50 properties in Stanstead Mountfitchet. Community Engagement Event is booked in for 17th July. Jake Fell from the EA will update further on this.

4. Looking Ahead

- 4.1. The contract with Lakeside has been extended for another year until May 2020.
- 4.2. It is envisaged that the PLR project will continue to deliver to properties in Essex through Anglian Water and Environment Agency funding. It is also expected that the delivery of the PLR projects and services would continue to bring in external revenue to the Council.

Appendices

Number of Installations completed



MONTH	INDEPENDENT SURVEYS	PRODUCT SURVEYS	INSTALLATIONS	FORECAST INSTALLATIONS
NOV-18	78	35		
DEC-18	36	12		
JAN-19	3	9		
FEB-19		22	3	
MAR-19			4	
APR-19			9	
MAY-19		4	9	
JUN-19	10		8	
JUL-19		10		7
AUG-19	51	51		14

Report to: Essex Flood Partnership Board	Report Number: EFPB/10/19 AGENDA ITEM 5
Date of report: 13/06/2019	County Divisions affected by the decision: All
Title of report: 2019/20 Essex Capital Flood Programme update	
Report by: David Chapman Project Delivery Manager	
Head of Service: John Meehan Head of Sustainability and Resilience	
Enquiries to: John Meehan Head of Sustainability and Resilience 07827 976397	

1. Purpose of report

1.1. To update the Flood Board on the 2019/20 Capital Flood Programme

2. Background

2.1 The Capital Flood Programme has a £19 million ECC budget broken down over 5 years. The 2019/20 capital programme has an ambitious budget of £3.7 million for projects with a view to obtain £2.1 million in external funding. In order to deliver schemes on the Flood Programme, we are using a number of consultants and in house expertise to design and build individual projects.

2.2 The Capital Flood Programme is broken down into 3 elements

- 1) Property Flood Resilience (PFR) is a scheme that offers residents of previously flooded properties an opportunity to apply for individual property protection. The applications are then vetted and prioritised.

- 2) The Community Flood Improvement Fund (CFIF) was aimed at assisting other authorities, charities, community groups, farmers or landowners committed to delivering projects resulting in the reduction of flooding to Essex resident's properties. However this programme has ended due to existing financial challenges.
- 3) Capital funded Flood Alleviation Schemes (FAS) forms the bulk of our programme; this area focuses on delivering projects on the ground in the areas most at risk of surface water flooding. Below is more specific detail on the Capital Programme FAS.

3. External funding update for capital schemes

3.1 Over the completed four years of the programme, we have developed strong working relationships with a wide range of stakeholders such as the Environment Agency, Anglian Water and District Councils. During this process the Flood and Water Management team has been able to attract external contributions and income to support a number of functions, these include

- Feasibility and assessment studies
- Delivery of capital flood alleviation schemes
- Delivery of the Property Level Protection project

We had an initial target of generating 25% of our annual budget from external stakeholders such as those mentioned above. The difference in 2019/20 is that we were tasked with increasing external contributions, I'm pleased to report that we have been able to secure £2.1m from our Environment Agency colleagues to support the £1.6m contribution from ECC thereby resulting in generating 65% of our annual capital budget from external funding.

This is in addition to

- £125,771 contributions secured in 2014/15

- £225,227 contributions secured in 2015/16 and
- £436,490 contributions and income secured in 2016/17
- £1.63m contributions secured in 2017/18
- £1.57m contributions secured in 2018/19

3.2 **Delivery programme**

- B3 Braintree – This scheme is complete and fully operational. This project has generated funding from our EA partners.
- W6 Witham – This scheme is complete and fully operational. This project has generated funding from our EA partners.
- West Mersea – The Community Emergency Group has been set up and design is being finalised. The first phase of the project is in the public highway. The second phase requires listed building consent, which we are in the process of obtaining.
- West Horndon – This scheme has been granted planning consent and a contractor has been appointed but has previously been put on hold due to legal negotiations. Legal discussions have now progressed and delivery is programmed for 2019/20.
- BAS17 Pitsea phase 2 – This phase was on hold until legal covenants had been explored. These have now been reviewed and delivery is programmed for 2019/20.
- EPP2 Hillyfields – The tender has been awarded, planning application has been approved and all conditions have been discharged but works have not started on site as we are finalising the legal agreement with Loughton PC and the Corporation of London.
- River Slade – We were initially approached by the EA to make a contribution to this scheme but due to changes in scope and difficulty in the EA delivering the work, ECC are now delivering the project.

- MAL2 Maldon Central – Planning application has been approved and design is being finalised.

3.3 The total number of properties benefitting from reduced surface water flood risk as a result of the schemes on the 2019/20 capital programme is 337.

4 Flood programme summary

4.1 The flood programme has finished its 4th year. During the current programme we have demonstrated the success achieved and the benefits delivered to residents of Essex. The current programme has seen over 75 sites investigated for the potential to deliver capital schemes. The knowledge gained from these projects will help to unlock more funding in the future and reduce the risk of surface water flooding to more residential properties in Essex.

By the end of the current programme it is estimated that over £6.0m pounds worth of external funding will have been realised through the delivery of schemes and reduced surface water flood risk to over 1300 residential properties.

5 Good news story

The completed Basildon Hospital scheme has been shortlisted for two awards. The first is the EA's Flood and Coastal award and the second is the British Construction Industry Awards. More updates on the awards will be available on the day of the meeting.

6 Recommendation

5.1 For Essex Flood Board Members to note the successes of the capital programme. Including this year's achievements we have reduced surface water flood risk to over 1000 properties and generated more than £3.9m worth external income. Using the lessons learned, combined with

developing stronger partnership working the aim is to continue the upwards trend and we hope to retain this level of service, and where possible improve it for future years.