



County Offices
Newland
Lincoln
LN1 1YL

19 November 2021

Flood and Water Management Scrutiny Committee

A meeting of the Flood and Water Management Scrutiny Committee will be held on **Monday, 29 November 2021 at 10.00 am in the Council Chamber, County Offices, Newland, Lincoln LN1 1YL** for the transaction of the business set out on the attached Agenda.

Yours sincerely

A handwritten signature in cursive script that reads 'Debbie Barnes'.

Debbie Barnes OBE
Chief Executive

Membership of the Flood and Water Management Scrutiny Committee
(11 Members of the Council and 7 Other Voting Members)

Councillors P A Skinner (Chairman), R P H Reid (Vice-Chairman), P Ashleigh-Morris, T R Ashton, A J Baxter, M Brookes, S Bunney, K J Clarke, A G Hagues and G J Taylor

Other Voting Members

District Councillors R Austin BEM (Boston Borough Council), P Vaughan (City of Lincoln Council), Mrs F M Martin MBE (East Lindsey District Council), Mrs L Hagues (North Kesteven District Council), M D Seymour (South Holland District Council), H Crawford (South Kesteven District Council) and I G Fleetwood (West Lindsey District Council)

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE AGENDA
MONDAY, 29 NOVEMBER 2021**

Item	Title	Pages
1	Apologies for Absence/Replacement Members	
2	Declarations of Members' Interests	
3	Minutes of the previous meeting held on 20 September 2021	5 - 16
4	Announcements by the Chairman, Executive Councillors and Lead Officers	
5	Flood & Coastal Innovation Programme - the Greater Lincolnshire Groundwater Project <i>(To receive a report by Matthew Harrison, Senior Commissioning Officer – Flood Risk, which provides an update on progress with the Greater Lincolnshire Groundwater project and sets out the next steps in developing an Outline Business Case)</i>	17 - 20
6	Fire and Rescue Flood Pump Capability <i>(To receive a presentation by Mark Baxter, Chief Fire Officer, which provides an overview of the Trailer Mounted Flood Pumps which had been secured through Lead Local Flood Authority funding)</i>	21 - 28
7	Consultation on the second cycle Flood Risk Management Plans <i>(To receive a report by Matthew Harrison, Senior Commissioning Officer – Flood Risk, which provides an overview of the plans and consultation exercise in advance of a formal response being provided by Lincolnshire County Council)</i>	29 - 34
8	Update on Black Sluice Pumping Station Project, Boston <i>(To receive a report by the Environment Agency which provides an update on progress to make the decommissioned Black Sluice Pumping Station site in Boston safe, and the opportunities for local partners to re-purpose the site as a local amenity)</i>	35 - 40
9	Investigations undertaken under Section 19 of the Flood and Water Management Act 2010 <i>(To receive a report by Paul Brookes, Flood Risk Manager, which informs the Committee of the status of all current flood investigations being undertaken in the County)</i>	41 - 44
10	Environment Agency Update <i>(To receive an update from the Environment Agency which updates the Committee on Environment Agency activities)</i>	Verbal Report

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| 11 | Anglian Water Update
<i>(To receive an update from Anglian Water on recent work and activities undertaken)</i> | Verbal
Report |
| 12 | Flood and Water Management Scrutiny Committee Work Programme
<i>(To receive a report by Kiara Chatziioannou, Scrutiny Officer, which enables the Committee to consider and comment on the content of its work programme to ensure that scrutiny activity is focused where it can be of greatest benefit)</i> | 45 - 48 |

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Please note: for more information about any of the following please contact the Democratic Services Officer responsible for servicing this meeting

- Business of the meeting
- Any special arrangements
- Copies of reports

Contact details set out above.

Please note: This meeting will be broadcast live on the internet and access can be sought by accessing [Agenda for Flood and Water Management Scrutiny Committee on Monday, 29th November, 2021, 10.00 am \(modern.gov.co.uk\)](#)

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**FLOOD AND WATER MANAGEMENT
SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

PRESENT: COUNCILLOR P A SKINNER (CHAIRMAN)

Councillors P Ashleigh-Morris, T R Ashton, A J Baxter, S Bunney, K J Clarke, A G Hagues and G J Taylor.

District Councillors R Austin BEM (Boston Borough Council), P Vaughan (City of Lincoln Council), Mrs F M Martin MBE (East Lindsey District Council), Mrs L Hagues (North Kesteven District Council), H Crawford (South Kesteven District Council) and I G Fleetwood (West Lindsey District Council).

Councillor T J G Dyer (Executive Support Councillor Economic Development, Environment and Planning), attended the meeting as an observer.

Officers in attendance:-

Kiara Chatziioannou (Scrutiny Officer), Katrina Cope (Senior Democratic Services Officer), Matthew Harrison (Senior Commissioning Officer - Flood Risk), David Hickman (Head of Environment) and Ryan Davies, (Assistant Flood Risk Officer).

The following officers/representatives joined the meeting remotely via Teams:

Ian Reed (Emergency Planning and Business Continuity Manager), Morgan Wray (Area Flood & Coastal Risk Manager, Environment Agency) and Simon Love (Head of Water Recycling Networks, Anglian Water).

1 APOLOGIES FOR ABSENCE/REPLACEMENT MEMBERS

Apologies for absence were received from Councillors M Brookes, R P H Reid and Councillor M D Seymour (South Holland District Council).

It was noted that the Chief Executive, having received notice under Regulation 13 of the Local Government (Committee and Political Groups) Regulations 1990, had appointed Councillor Mrs A M Austin to replace Councillor M Brookes for this meeting only.

2 DECLARATIONS OF MEMBERS' INTERESTS

No declarations of members' interest were made at this stage of the proceedings.

2

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

3 MINUTES OF THE PREVIOUS MEETING HELD ON 22 FEBRUARY 2021

RESOLVED

That the minutes of the Flood and Water Management Scrutiny Committee meeting held on 22 February 2021 be agreed and signed by the Chairman as a correct record.

4 ANNOUNCEMENTS BY THE CHAIRMAN, EXECUTIVE COUNCILLORS AND LEAD OFFICERS

The Chairman advised the Committee that a Lincolnshire Climate Summit for 2021 would be taking place on 13 October 2021 at the Epic Centre at the Lincolnshire Showground. Any member wishing to know any further information or wished to attend the summit was asked to contact Kiara Chatziioannou, Scrutiny Officer.

The Chairman invited Councillor T Dyer, Executive Support Councillor for Economic Development, Environment and Planning to provide the Committee with any Executive Councillor announcements.

The Committee was advised of the following announcements:

- Completion of the Digby Scheme – The Executive Support Councillor advised of his personal experience of visiting the Digby Scheme and particular reference was made to the impressive way the scheme blended into the natural environment; and that the scheme would now protect many homes going forward;
- Greater Lincolnshire Groundwater Project, part of the National Resilience and Innovation Programme – The Committee noted that the Council had been selected by the government to take part in this programme. It was highlighted that the Council was working with colleagues from North East Lincolnshire and North Lincolnshire Councils to submit a detailed business case by the end of December/start of January 2022, with the aim of commencing work in the financial year 2022/23. It was highlighted that a total of £7.5m had been allocated for the project, which was due to run until 2026, and was designed to identify solutions that would work for Lincolnshire, and other locations around the country;
- Scheme to support the installation of property level resilience measures – The Committee was reminded that a scheme was being trialled to support the installation of property level resilience measures to better protect homes at risk of flooding, where a larger scheme was not practicable. It was highlighted that an update on the scheme would be presented to a future meeting of the Committee;
- Potential water storage sites in Lincolnshire – The Committee noted that water companies were obliged to plan ahead, to ensure that public water supplies were maintained in the future. The Committee noted further that within Lincolnshire and the wider Anglian region, Anglian Water was currently exploring a number of options, including large scale storage and transfer. It was highlighted that the Council and its partners would be continuing to engage in the deliberations, and that when firmer proposals were put forward, these would be examined and responded

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

to by the Committee to ensure that that the greatest possible benefits for Lincolnshire's communities, businesses and environment were achieved.

5 DEVELOPMENT FUND - DRAINAGE INVESTIGATIONS AND FLOOD REPAIRS

Consideration was given to a report, which advised the Committee of the progress made to date with the programme of work for the Development Fund Drainage Investigations and Flood Repairs.

The Chairman invited Matthew Harrison, Senior Commissioning Officer – Flood Risk, to present the report to the Committee.

The Committee was reminded that funding to the value of £2.2 million (capital 2m, revenue 200K) had been made available to address drainage and flooding issues in Lincolnshire. That a programme of works had been developed in collaboration between the Floods Team and Highways for the works to be delivered over the financial years 2021/21 and 2021/22, with overall spend to be completed by March 2022.

Appended at Appendix A to the report was a copy of the Development Fund – Drainage Investigations and Flood Repairs Governance Structure; and Appendix B provided a copy of the Development Fund – Development Investigations and Flood Repairs – Programme of Work for 2021/22 for the Committee's consideration.

It was highlighted that the varied programme which included investigation work and the proposed delivery of more substantial drainage and flooding schemes would address long standing issues across the County. It was also noted that the programme of works complimented a full and active programme of drainage works taking place in the County, which were being delivered through the Highways Asset Teams. Further details concerning this matter were provided on page 16 of the report.

The Committee noted that the Development Fund Programme was on track to deliver the allocated budget of 2.2 million of works by March 2022. It was highlighted that there was a desire for such a programme to continue and to that end a business case was being prepared to seek future funding for the continuation of the programme from April 2022. It was highlighted further that the Programme Delivery Board was already considering a future programme of work and key areas that would benefit from the work.

The Committee was invited to review and comment on the progress made with the Development Fund for Drainage Investigations and Flood Repairs and some of the points raised during discussion included the following:

- That some schemes were not included within the Appendix B to the report presented. Some concern was expressed that 3 schemes in Bardney had not being progressed under the Development Fund. The Committee was reminded that the programme was working alongside the Highways programme, and that further investigation may change the scope of works undertaken. Officers agreed to have a

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

separate conversation concerning the three Bardney schemes outside of the meeting;

- Whether £2.2m was enough for the works to be carried out. The Committee was advised that the amount required was difficult to quantify. It was highlighted that the Council was however seeking additional funding for the next two years. There was an understanding that more needed to be done, and that any member with flooding concerns should contact officers;
- The Kirton Scheme – Officers confirmed that the scheme at Kirton was a complex major scheme, as it involved both highways and private land owners. There was acknowledgment there would of course be some short term disruption to residents, but that would be outweighed by the long term benefits of the scheme; and
- Lack of provision for schemes in the south of the County. It was noted that the programme covered a specific area and that areas in the south of the County would be included in the wider programme. Officers agreed to look at any specific concerns outside of the meeting.

RESOLVED

That the progress made with the Development Fund for Drainage Investigations and Flood repairs be noted.

**6 INVESTIGATIONS UNDERTAKEN UNDER SECTION 19 OF THE FLOOD AND WATER
MANAGEMENT ACT 2010**

Consideration was given to a report which informed the Committee of the status of all current flood investigations being undertaken in the County.

The Chairman invited David Hickman, Head of Environment, to present the report to the Committee.

It was reported that a total of 21 investigations had been commissioned since February 2021, and that 25 properties had been affected by flooding (details were provided in Table 1 on page 28 of the report pack). It was highlighted that more investigations were being completed which had maintained pressure on a finite resource. The Committee noted that because of the high volume of flood investigations, final reports were not being completed in such a timely manner as would normally be expected. It was noted further that steps had been taken to make the process more efficient by:

- Taking a proportionate approach to flood investigations where, for example, the source and cause was clearly understood. Where such a 'light touch' was considered appropriate, the Committee was reassured that the requirements of Section 19 were fully met as well as the additional output of recommendations being made for mitigating future flooding; and
- The sourcing of additional resource.

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

It was also reported that more development work was being done relating to presentation of information for the Committee with the use of PowerBi.

During consideration of the report, members of the Committee raised some of the following issues:

- Some concern was raised that Section 19 reporting only took into consideration flooding inside a dwelling, when sometimes flooding had occurred in garages and sheds and whether these incidents were classed as near misses. The Committee noted that the web link only reported Section 19 incidents. It was noted further that the Flood Risk Team were recording near misses to date and that this information was nearing completion; and would be available for members of the Committee to consider at its next meeting. The Committee was advised that surface water flooding was very intense in specific locations and was unpredictable effecting individual properties in a scattered way increasing pressure on resources;
- Historic Section 19 outstanding reports in the Louth and Horncastle areas. It was reported that Section 19 would look at the cause and that more detail would emerge as the result of investigations in the near future;
- One member provided information relating to an individual who had been using their own pumping system for years to avoid being flooded, and whether this incident would be classed as a near miss. Officers agreed to look into the matter outside of the meeting. Clarification was sought as to what constituted a near miss. The Committee was advised that the data being developed would enable a broader context of information and evidence to determine near misses;
- Whether the mapping of rainfall over the last ten years would help to locate hotspot areas. Officers agreed to look into the matter;
- The result of flooding caused by human error or neglect. The Committee was advised that this area would be looked at further on in the agenda in the report concerning the Lincolnshire Riparian Project; and
- Whether information was received from the Met Office with regard to flooding. The Committee was advised that information was received from the Met Office and the Resilience Forum which officers were happy to share with members of the Committee.

RESOLVED

That the investigations undertaken in the County under Section 19 of the Flood and Water Management Act 2010 be noted.

7 LINCOLNSHIRE RIPARIAN PROJECT UPDATE

The Committee agreed that the next item for consideration would be the Lincolnshire Riparian Project Update, as it was closely linked to the earlier item on the agenda.

The Chairman invited Matthew Harrison, Senior Commissioning Officer and Ryan Davies, Assistant Flood Risk Officer to present the report to the Committee, which advised of the

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

steps taken to date to develop the Council's approach to the network of riparian watercourses across Lincolnshire and strengthened engagement with riparian landowners.

It was reported that from latest significant flooding events in Lincolnshire caused by severe weather and high rainfall in the latter part of 2019 and early 2020; it had been identified that the role of riparian (privately owned) watercourses in surcharging under high rainfall conditions were contributing to localised flooding and that this was apparent in a number of locations.

Information was provided in the report as to what owners of land were classified as being riparian landowners; and their common law rights and responsibilities.

It was reported that within Lincolnshire, Lincolnshire County Council led on ordinary watercourses consenting and enforcement unless it was an internal drainage district then Internal Drainage Boards led on ordinary watercourse regulations. Details of the permissive powers of the Council were shown in Table 1 on page 48 of the report. It was noted that under a Memorandum of Understanding the Council had delegated its land drainage powers to the Internal Drainage Boards, who exercised them consistently on behalf of the Council across the County to manage consenting and enforcement of activities affecting ordinary watercourses.

It was highlighted that the Council had commenced a project with partners in the Lincolnshire. The Flood and Water Management Partnership comprised of interested stakeholders from North and North East Lincolnshire Councils, and that its purpose was to gain a better understanding of the nature and extent of potential flooding from riparian watercourses across the Greater Lincolnshire area.

The Committee was asked to consider the potential options to be taken forward as detailed on page 49 of the report and to help guide officers with the development of the Lincolnshire Riparian Project. Some of the points raised during discussion included the following:

- Some members felt that riparian ownership was an important issue, which was becoming more and more of a problem;
- Some members welcomed the report and agreed that it was a vast piece of work, and that going forward it was going to be interesting to see how the responsibility of ownership was dealt with. Some concern was raised regarding the issue of enforcement and whether there was the budget and resources available for the this to be carried out. The Committee noted that a working group had been set up with IDB's, district councils and the Environment Agency to consider the options and to identify the resources required. It was then hoped the short list of options would be finalised in late October 2021, with the commencement of options as soon as practicable, following approval by the Council and partners, with the aim of implementation for April 2023. Officers advised that they were happy to report back to the Committee on the progress being made with the project;
- The need to make private landowners/businesses aware of riparian rights. A suggestion was made for an article to be published in an edition of County News.

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

The Committee was advised that communication was a key point and that the suggestion made would be considered. A further suggestion made was for something to be included in the monthly email to town and parish councils to ensure that the message was being distributed across the County. It was also highlighted that there was a need for some training for parish councils on what was required; and

- It was agreed that a link to the to the Government website concerning guidance on owning a watercourse would be forwarded on to all members of the Committee following the meeting.

RESOLVED

That the report be received and that the comments raised by the Committee be taken in to consideration through the development of the project.

8 ENVIRONMENT AGENCY UPDATE

The Committee received a presentation from Morgan Wray, Area Flood & Coastal Risk Manager, which provided an update on recent activities.

Some areas covered by the presentation included the following:

- Humber 2100+ - working in partnership;
- Current flood risk from rivers and the sea;
- East Coast Strategy map;
- Enhancing the Lincolnshire Coast;
- Steeping River Catchment Action Plan;
- Lower Witham Flood Resilience Project;
- Billingham Skirth System Review;
- Upper Witham system Review;
- Welland and Nene;
- Using Nature to help Climate resilience 2021-2027
- Fens Measure Actions;
- Steeping Catchment Action Plan 2020+;
- Catchment Action Plan Themes;
- Improving the flow through the system;
- A resilient community and infrastructure;
- Strengthening and maintaining defences; and
- Flood Water Storage.

Further information relating to each of the slides presented was included in the report, which was detailed on pages 31 to 46 of the report pack.

During consideration of the presentation, the Committee raised some of the following comments:

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

- Concern was raised regarding the depth of the River Welland. Officers agreed to discuss the matter further outside of the meeting;
- Building on flood plains - The Committee was advised that the Environment Agency took the role of a statutory consultee very seriously, and that they worked together with planning authorities to ensure that planning was appropriate;
- The cost of the structure required to defend the Nene. The Committee was advised that this was included as part of the fens work to look at how much money was required going forward to replace structures; and
- When was the assessing of the valuation of agricultural land in projects likely to change. The Committee noted that this was part of the fens work and that input was being received from the NFU regarding this matter. The Committee noted that any change would have to be as a result of a national policy change. A suggestion was made that the government need to be lobbied to promote the value of agricultural land.

RESOLVED

That the report and presentation be received and that the progress of work being undertaken in Lincolnshire to deliver the vision of the National Flood Risk Management Strategy be noted.

9 ANGLIAN WATER UPDATE

The Committee received a presentation from Simon Love, Head of Water Recycling Networks at Anglian Water, which provided an update on recent activities.

The Committee was advised that during the last winter there had been 28 Environmental Position Statements in operation in Lincolnshire, which was unprecedented, and had caused quite a challenge for Anglian Water. The Committee was advised further that a fleet of some 120 tankers had been dedicated to the emergency response. It was noted that the impact of the flooding had continued into the spring.

The Committee noted the five schemes being undertaken to reduce surface water flooding; activities that were being undertaken at West Deeping to clear significant blockages; filtration and lining works at Scopwick; and hydraulic works at Grantham and Long Bennington.

During discussion, members of the Committee raised some of the issues below:

- Disappointment was expressed that the presentation had not made mention to Scothern Lane, Langworth, an area which had seen many years of flooding. The representative from Anglian Water agreed to look at the issue outside of the meeting and provide an update on the activity to date;

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

- Some concern was expressed that some members had found it difficult to see the detail contained within the presentation. Officers confirmed that copies of the presentation slides would be emailed to members of the Committee following the meeting;
- Some reference was made the general state of the sewer system. The Committee was reminded that with any emergency incident, Anglian Water was at the bottom of the link, and was affected in the same way as other partners;
- Thanks were extended to AWA colleagues who had helped with the West Deeping and Tallington flooding incidents. Some clarity was sought as to who made decisions in a time of crisis. Reassurance was given that all partners worked together in a single approach all the time. For further clarity the Committee was advised that surface water just from the highways was dealt with by the Council system and that water off the highways and from roofs was dealt with by Anglian Water system.

RESOLVED

That the presentation be received and noted.

10 EMERGENCY PLANNING, RESPONSE AND CO-ORDINATION UPDATE

The Chairman invited Ian Reed, Head of Emergency Planning Business Continuity, to remotely present the item to the Committee.

The Committee was advised of the background to the review of Multi–Agency Flood Plans; the learning from some of the smaller scale flooding incidents during the last twelve months, which had led to a review of the Councils Incident Response Procedure Manual, with particular emphasis on how low-level flooding incidents were being managed.

It was noted that following discussion, suggestions had been made to the benefit of a smaller group of agencies meeting to discuss flooding incidents at a much lower level. It was noted further that in future a small multi-agency group would form when calls for sandbags and other flooding requests were received by agencies; and where existing capacity to respond was being stretched.

The Committee was advised that the process had been tested in an exercise held on 25 August in the East Lindsey area. The exercise had highlighted that a change in the early triggers for activation was required to take account of the greater capacity within Lincolnshire County Council Highways to respond, and to ensure that the group was not getting involved too early when no coordinated response was required. It was highlighted further that the process would be amended to ensure that only as resources started to become stretched would the group be activated. It was noted that a follow-up exercise was planned for 27 September 2021 in the West Lindsey area.

The Committee noted that for 2022, a single exercise to look at all flood risks was going to be held. It was noted further that the exercise entitled FloodEX22 was set to take place over the week of the 19 to 23 September 2022, and that the exercise was seeking participation from all counties from Northumberland to Kent along the coast, and all those along the

**FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE
20 SEPTEMBER 2021**

Trent. Details of what the exercise would enable to be tested were shown on page 53 of the report pack.

The Committee also noted that the Lincolnshire Resilience Forum (LRF) was yet to complete its major exercise, 'Silver Siren', which was due to take place in October.

In conclusion, the Committee noted that the service continued to develop close working relationships with the Environment Agency and other LRF partners; and that the service was confident that its plans were fit for purpose for the upcoming audit.

It was also reported that the service was also co-ordinating the LRF Pilot Funding project on behalf of the LRF. The project bid submitted to Ministry of Housing, Communities and Local Government (MHCLG) related to advanced mapping capabilities, use of drones and LRF engagement amongst others. If successful, the projects would further enhance the work carried out by the service.

During consideration of the report, the Committee raised some of the points listed below:

- The need to make sure that flooding incidents were followed through;
- The current policy relating to sandbags. The Committee noted that sandbag policies differed across the District Councils. It was highlighted that there was a need to have a more co-ordinated approach, and that this was currently work in progress;
- The effectiveness of 'Floodline'. Some concern was expressed that Floodline had failed to deliver a co-ordinated solution. Clarification was given that as this service was provided by the Environment Agency, no further information could be supplied;
- Clarification was sought as to whether Anglian Water was part of the small multi-agency group, as detailed on page 52. The Committee noted that Anglian Water would not become involved until the incident became a Tier Two incident; and
- Whether smaller emergency groups were still involved in the emergency planning process. The Committee noted that small groups were still included in the Resilience Community plan.

RESOLVED

That the report on the Emergency Planning, Response and Co-ordination Update be received and that the progress being undertaken by the service be noted.

11 FLOOD AND WATER MANAGEMENT SCRUTINY COMMITTEE WORK PROGRAMME

Consideration was given to a report from Kiara Chatziioannou, Scrutiny Officer, which invited the Committee to consider and comment on the content of its work programme to ensure that scrutiny activity was focussed where it could be of greatest benefit.

Details of the Committee's work programme were shown on page 56 of the report.

During consideration of report, the committee raised the following comments/suggestions:

- A report on the Digby Scheme;
- The potential for future site visits to look at schemes before and after completion; and
- The impact of pumping stations not being able to use red diesel from April 2022 following the government's national ban. Officers advised that this would be pursued through the Association of Drainage Boards (ADA) nationally.

RESOLVED

That the work programme presented be received and that consideration be made to the comments/suggestions made.

The meeting closed at 12.16 pm.

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Open Report on behalf of Andy Gutherson - Executive Director of Place

Report to:	Flood and Water Management Scrutiny Committee
Date:	29 November 2021
Subject:	Flood & Coastal Innovation Programme - the Greater Lincolnshire Groundwater Project

Summary:

To provide an update on progress with the Greater Lincolnshire Groundwater project and set out next steps in developing an Outline Business Case.

Following a successful bid for funding into the Department for Environment, Food & Rural Affairs (DEFRA) Innovation Resilience Fund this report provides the Committee with an update on progress in developing the Greater Lincolnshire Groundwater Project and specifically that of working towards the completion of an Outline Business Case by April 2022.

Actions Required:

Members of the Flood and Water Management Scrutiny Committee are requested to consider and comment on the report and provide with guidance as required to help shape the Outline Business Case that will be submitted in April 2022.

1. Background

In the 2020 Budget, the government announced a £200 million fund for a flood and coastal resilience innovation programme to help deliver the government's policy statement on flooding and coastal erosion and the Environment Agency's National Flood and Coastal Erosion Risk Management Strategy for England.

The programme will allocate £150 million of the £200 million to 25 local areas, which could be a county, city, town or village, or also mean a river catchment, a tidal estuary or part of the coast. Areas making a successful bid will, on average, receive £6 million between 1 April 2021 and 31 March 2027.

Lincolnshire County Council is leading on the development of a collaborative approach founded on the flood and water management partnership and based on the Greater Lincolnshire geography. This includes North Lincolnshire Council, North East Lincolnshire

Council, North Kesteven and East Lindsey District Councils, Internal Drainage Boards, the Environment Agency and Water Companies. Within the Council a range of internal services are engaged, including Highways, Emergency Planning & Business Continuity and Countryside Services. The overall emphasis is on the management of current and future groundwater flood risk an area much less understood than coastal, fluvial and surface water risks. The partnership has recognised there is an identifiable impact of groundwater on residents and infrastructure across the Greater Lincolnshire area, and this little-understood subject offers opportunities for innovative approaches to be taken making a strong bid.

The Partnership prepared an Expression of Interest (EOI) to bid for funding and in January 2021 an Executive Councillor decision notice approved the submission of an EOI by LCC on behalf of the partnership. Subsequently LCC were informed of the success of the application and acceptance on to the Flood and Coastal Resilience Innovation (FCRI) programme. It confirmed that capital funding will be received over the next six years to take forward the actions and interventions identified in the EOI. The £150 million FCRI programme was re-confirmed in the Government spending review and confirmation was received that following Ministerial approval, the Environment Agency can now allocate and pay-out this funding for this financial year.

All projects will have to complete an Outline Business Case (OBC) for assurance and approval by the Environment Agency's national project assurance groups. Initial allocations of funding for the supporting studies required to complete an OBC had to be claimed via submission of form FCERM7: Application for approval of studies. This was completed by members of the partnership and outlined key packages of work that will be required to lead to the development of the OBC and the associated indicative costs.

Current actions and next steps

As identified above the first major milestone of the project is to produce an Outline Business Case. This will support the development of a multi-functional Integrated Catchment Model. This model will involve using innovative methods to assess groundwater flood risk at a catchment level and will incorporate input data from partners across Greater Lincolnshire. The capability of the models will be adapted so that it is fit for purpose to be able to assess water resource opportunities and also identify where groundwater flooding is likely to occur. Whilst the modelling work will be core to the development of the overall project other areas which will be explored include potential environmental benefits and resilience to climate change and a key focus on community engagement to better understand the risk of groundwater flooding. To support this, and in developing a robust OBC the key packages of work currently identified by the project team are as follows;

Project Team Resource

- To establish dedicated resource within the project team to manage the overall programme and undertake day to day tasks such as engagement, procurement, technical input and completion of the OBC. This dedicated resource is seen as

fundamental to ensuring deliverables are produced to programme and meet the quality standards expected. This resource will entirely be externally funded for the duration of the project.

- Recruitment of a National Flood Forum Community Engagement Officer to establish effective community groups and facilitate a multi-agency approach to help the residents deliver outcomes.

Strategic Groundwater Assessment and Gap Analysis

The Strategic Groundwater Assessment has been identified as the first phase of work in assessing what data is available within the wider partnership, what methods can be used and enhanced for modelling and where there are gaps in resource, knowledge or data. The Strategic Groundwater Assessment will consist of the following tasks:

- Desktop review of the Rapid Evidence Assessment (REA) of Groundwater flooding;
- Review national mapping products for capability;
- Capability Assessment of the Greater Limestone and Chalk models;
- Collection of localised data to assist with the Integrated Catchment Modelling; and
- Gap analysis – consisting of scope of works for Catchment Modelling and any other required tools

The project team have engaged with consultants who built the Lincolnshire Limestone and Chalk models and will work with them moving forward to refine the criteria for the submission of the OBC.

Confirmation has been received from the Environment agency national team that this project has already been assessed against the criteria relating to project viability and deliverability and it is expected this next stage of project development, will provide the opportunity to further refine the scope of the project and reduce critical areas of risk and uncertainty. Support is available through the Environment Agency to review the business case and, where necessary, will make recommendations which help the project get off to the best start possible to enable the partnership to achieve the planned benefits and outcomes for the project.

2. Conclusion

The Flood & Coastal Resilience Innovation Programme provides the opportunity to develop understanding of a broad range of groundwater risks and opportunities across multiple LLFA areas, leading to a range of practical actions delivered in partnership over the next six years. It is intended that these actions should incorporate multiple benefits, such that environmental and social resilience is built into the approaches developed.

The Expression of Interest form, developed in a relatively short period of time, required the rapid establishment of a partnership involving a broad range of partners from across the Greater Lincolnshire area. The successful establishment of this partnership and the

active collaboration of its members indicates the recognition across the region of the climate change challenges faced by our residents, businesses and environment.

With the success of the EOI and acceptance of the FCERM7 (Approval of studies) form, development of a robust Outline Business Case, and drawdown of funds to support that development, will be the focus of the partnership leading up to the submission deadline of April 2022. Once the OBC has been submitted, and approved, the partnership will then be committed to delivering on the objectives set out for this project. Comments and guidance by members of this committee would be welcomed on this process and the project as a whole as this develops further.

3. Consultation

a) Risks and Impact Analysis

Risk and Impact Analysis will be carried out as the project develops as part of the consideration for full business case

4. Background Papers

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

This report was written by Matthew Harrison, Senior Commissioning Officer - Flood Risk, who can be contacted on 07771837565 or matthew.harrison@lincolnshire.gov.uk.



Open Report on behalf of Mark Baxter, Chief Fire Officer

Report to:	Flood and Water Management Scrutiny Committee
Date:	29 November 2021
Subject:	Fire and Rescue Flood Pump Capability

Summary:

The following presentation is designed to give Committee Members an overview of the Trailer Mounted Flood Pumps that have been secured through Lead Local Flood Authority funding.

The pumps are hosted and mobilised through Lincolnshire Fire and Rescue and have been designed in partnership with Environment Agency to provide an efficient and effective response to widespread level flooding across the County.

Actions Required:

That the Committee considers and comments on the presentation and highlight any additional areas for consideration.

1. Background

In 2017, through partnership with Lead Local Flood Authority, Environment Agency and Lincolnshire Fire and Rescue, 2 bespoke trailer mounted flood pumps and dedicated Isuzu trucks were procured to provide an effective flood response capability in Lincolnshire. In 2020, there were 2 more additional sets procured to bring the fleet to 4 pumps and 4 trucks to be strategically located across the County.

This capability gives the ability to support flood incidents, specifically protracted events, with reduced resource commitment and more efficient pumping capability.

2. Conclusion

Members of the Flood and Water Management Scrutiny Committee are invited to invited to consider and comment on the presentation on Trailer Mounted Flood Pumps which

provides an overview of the work that Lincolnshire Fire and Rescue are doing and of their capabilities to respond to flooding incidents.

3. Consultation

a) Risks and Impact Analysis

Not applicable.

4. Appendices

These are listed below and attached at the back of the report	
Appendix A	Presentation of Trailer Mounted Flood Pumps

5. Background Papers

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

This report was written by Mark Baxter, Chief Fire Officer who can be contacted on 0779 911 0463 or mark.baxter@lincoln.fire-uk.org.

Trailer Mounted Flood Pumps



Background

The County Council plans for major flood emergencies through the Emergency Planning & Business Continuity unit with the support of the Local Resilience Forum.

- For localised floods, a low-level response is required, coordinated by the Lead Local Flood Authority (LLFA).
- We do this in partnership with:
 - LCC Highways
 - Lincolnshire Fire & Rescue
 - Other partners - District Councils, water
 - companies, IDBs, EA



Our Partnership approach

- Partnership with LLFA, Environment Agency (EA) and Fire and Rescue entered into a Service Level Agreement in 2017
- 2017 - Procured 2 trailer mounted pumps and 2 Isuzu trucks to tow and carry equipment - £55K funded by LLFA
- 2020 – Procured 2 more trailer mounted pumps and 2 Isuzu trucks - £55K funded by LLFA
- Dispatched with a crew of 4 and then left to operate with crew of 2
- Reduces the requirements of appliances to be tied up at incidents
- Provides more resilience at protracted flooding incidents



Capability

- Capable of pumping 317m³/hour or 88 litres/second
 - New Scania appliances – 33litres/second
 - High Volume Pump – 116 litres/second
- Ancillary equipment has been supplied to ensure that the pump is compatible with other organisations equipment e.g. IDB / Fire High Volume Pump (HVP) and standard farm pumps.
- It can pump a solid object 4” in diameter
- The Isuzu truck is capable of towing 3.5 tonnes
- It has all wheel drive (awd) capability and can be used for a multitude of tasks which will be at the discretion of Service management



Locations

- Alford
- Gainsborough
- Holbeach
- Wragby



Incidents of Note

- Greetwell, Cherry Willingham 2018
 - Grantham 2018
 - Wainfleet 2019
 - Several 'minor' flooding events during throughout 2017-2021
-
- Severe weather events, such as Beast of the East to provide operational cover and access
 - Isuzu trucks can also be used to support Co-responding duties as Wragby Station





Open Report on behalf of Andy Gutherson - Executive Director of Place

Report to:	Flood and Water Management Scrutiny Committee
Date:	29 November 2021
Subject:	Consultation on the second cycle Flood Risk Management Plans

Summary:

The Environment Agency (EA) have commenced a public consultation on the second cycle Flood Risk Management Plans (FRMPs) covering the period 2021-2027. This report is to provide an overview of the plans and consultation exercise in advance of a formal response being provided by Lincolnshire County Council (LCC).

Actions Required:

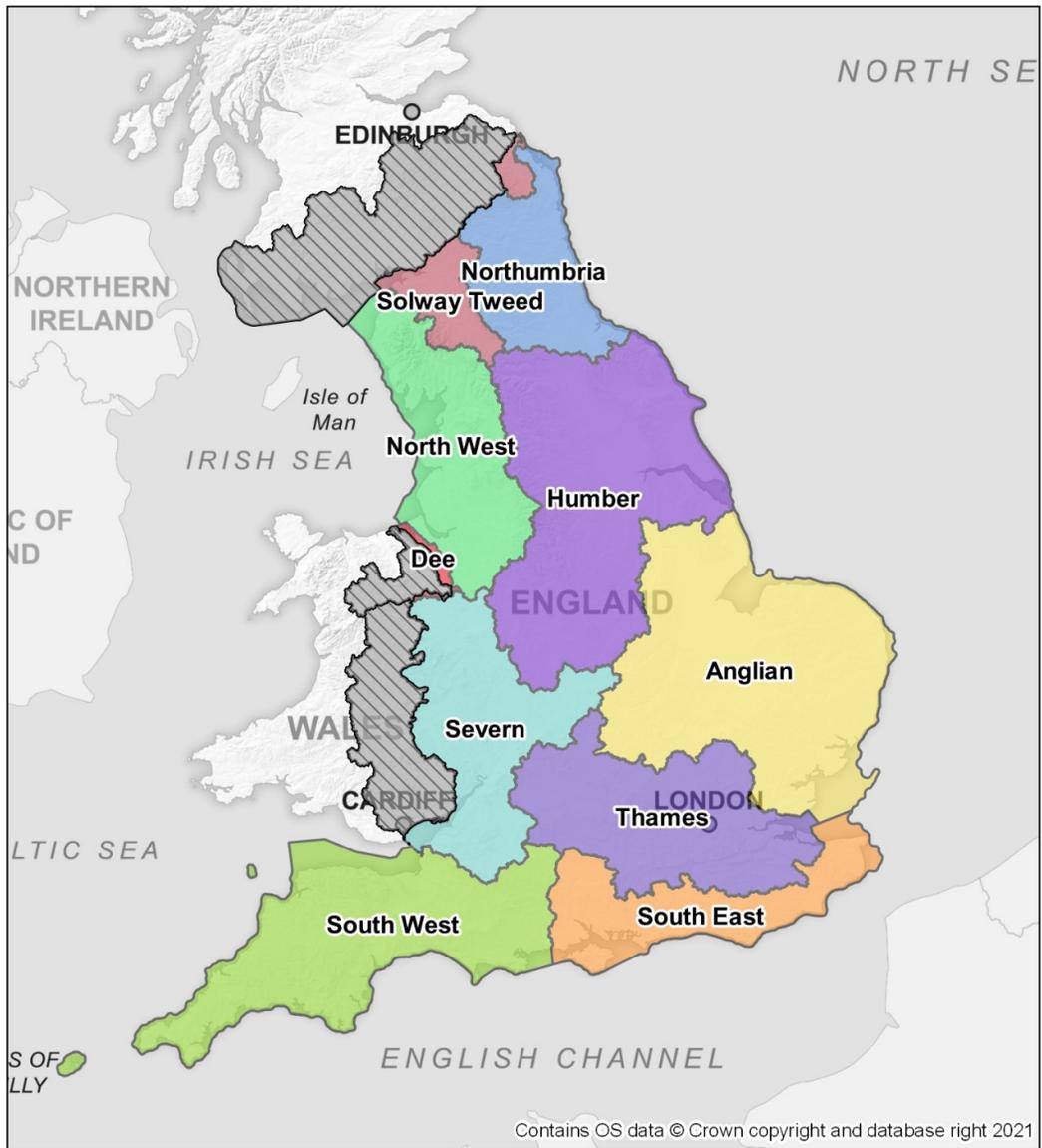
Comments and guidance are requested from members of the committee on the consultation of the Flood Risk Management Plans (FRMPs) prior to a formal response being provided by the authority in advance of the consultation deadline of 21 January 2022.

1. Background

The Environment Agency (EA) have produced draft Flood Risk Management Plans (FRMPs) for England to cover the period from 2021 – 2027. This second cycle of FRMPs now form part of a 3-month public consultation, which is now open and will run from 22 October 2021 to 21 January 2022. The FRMP consultation can be found on the [Environment Agency's online consultation hub](#).

FRMPs are strategic plans that set out how to manage flood risk in nationally identified Flood Risk Areas (FRAs) for the period 2021-2027, and are statutory plans required by the Flood Risk Regulations 2009. They have measures for the FRAs identified in 2017 for surface water flooding and in 2018, for main river and sea flooding. The EA worked together with Lead Local Flood Authorities (LLFAs) and Risk Management Authorities (RMAs) to produce them and are now seeking views as part of the consultation. This will inform a final set of plans that will set out actions to manage flood risk between 2021-2027.

There are 10 draft FRMPs, one for each river basin district.



Legend

- | | | | |
|------------------------------|-------------|--------------|-------------------------|
| River Basin Districts (RBDs) | Humber | Severn | South West |
| Anglian | North West | Solway Tweed | Thames |
| Dee | Northumbria | South East | RBDs outside of England |

As can be seen from the above map, Lincolnshire falls into two River basin areas, the Humber and Anglian.

There are a number of new features for FRMPs 2021 to 2027:

- Strategic. They are strategic and focus on areas where the risk of flooding has been identified as nationally significant. These areas are FRAs, where there is the potential for significant risk or impacts should major flooding occur from surface water, main rivers, and the sea. The EA continue to work with other RMA's to manage flood risk outside of FRAs for other communities.
- Accessible. They aim to be more accessible and easier to use for our stakeholders and the public than the 2015-2021 FRMPs, with greater use of online mapping.
- Flood plan explorer. The measures will be displayed on an online map-based tool called flood plan explorer. This will show what flood risk management measures are proposed at a national and local scale and how they are progressing. Flood plan explorer can be found on [DATA.GOV](https://data.gov).
- National Flood and Coastal Erosion Risk Management Strategy for England. They aim to support and contribute to the delivery of the ambitions in the [National Flood and Coastal Erosion Risk Management Strategy for England](#) (FCERM Strategy), such as nature-based solutions, and longer term adaptive approaches for taking action at the right time.

The FRMPs will also help to inform and drive existing programmes of work, such as the Programme of flood and coastal erosion risk management schemes (FCERM). The plans will explore wider resilience measures like nature-based solutions for flood and water, and to set longer term adaptive approaches for taking action at the right time.

Developing measures for Lincolnshire

In preparation for developing the consultation on FRMPs EA colleagues have engaged with officers of the Floods Team at LCC to discuss the approach and assist in developing measures in our role as LLFA. It should be clarified at this point that LCC, in its role as LLFA, has no designated Flood Risk Areas within the County (for surface water, groundwater and ordinary watercourses). However, the EA do have designated FRAs in their role as RMA in both the Humber and Anglian River basin District (Lincolnshire and Northamptonshire Area) as follows;

Humber RBD area;

Louth

Anglian RBD area;

- Boston
- Horncastle
- Lincoln
- Mablethorpe
- Skegness

- Spalding

These areas are identified as at risk from river and/or coastal flooding.

Although it is not a statutory obligation for LCC to prepare FRMPs, not having any designated FRAs identified in the preliminary flood risk assessment (PFRA), this was still seen as an opportunity to support the wider aspiration of the FRMP process to develop measures that collectively support a joint approach to addressing all sources of flooding in the County.

Taking a strategic approach, it was identified that the recently adopted Joint Lincolnshire Flood Risk & Water Management Strategy 2019-2050 aligns with the aspirations of the themes in both the national FCERM strategy and those put forward under the river basin district areas for developing the second cycle of FRMPs. Acknowledging the FRAs that have been identified in the County by the EA in their role as RMA officers at LCC took the approach to concentrate on these areas in developing new measures in our role as LLFA. Specific schemes were not required to be identified but an approach to identify how measures would align with addressing different types of flood risk and addressing key themes.

The agreed measures to be incorporated into the FRMPs in our role as LLFA were the local flood risk management strategy and the Communities at Risk tool which will allow us to develop projects within our own framework to demonstrate we are considering all sources of flood risk. Four surface water measures were also identified for Lincoln, Louth, Horncastle, and Spalding which were chosen to link into areas identified within the EA's specified Flood Risk Areas, therefore demonstrating a partnership approach. These four areas already have pipeline schemes as a result of S.19 investigations, but it was refrained from identifying specific projects to allow the flexibility in developing schemes during the period of the FRMP process during 2021-2027.

2. Conclusion

Officers will be reviewing and responding to the consultation on the second cycle of FRMPs for the Humber and Anglian River basin areas which cover Lincolnshire. The content of the consultation includes objectives, measures, and the maps of FRAs and the questions also cover what is new for the second cycle FRMPs, such as Flood Plan Explorer (FPE) and supporting the National FCERM Strategy. Comments and guidance from members of this committee would be welcomed in preparation for the submission deadline of 21 January 2022.

3. Consultation

a) Risks and Impact Analysis

This is part of a national public consultation by the Environment Agency for which LCC will provide a response in its role as LLFA. There are no risks or impacts either financially

or as a result of any specific practical measures that may arise from the consultation exercise.

4. Background Papers

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

This report was written by Matthew Harrison, Senior Commissioning Officer - Flood Risk, who can be contacted on 07771837565 or matthew.harrison@lincolnshire.gov.uk.

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Open Report on behalf of the Environment Agency

Report to:	Flood and Water Management Scrutiny Committee
Date:	29 November 2021
Subject:	Update on Black Sluice Pumping Station Project, Boston

Summary:

In October 2018, following rigorous studies and consultation, the Black Sluice Pumping Station in Boston was operationally decommissioned. This report provides an update on progress by the Environment Agency to make the site safe, and the opportunity for local partners to re-purpose the site as a local amenity.

Actions Required:

The Flood and Water Management Scrutiny Committee is invited to consider and comment this report.

1. Background

An Environment Agency (EA) led study called the 'Black Sluice Catchment Works' began in 2012, with the aim of understanding flood risk in the South Forty Foot (SFF) system. This study included detailed modelling and economic assessment on a range of scenarios for the whole catchment, but closely linked to the role of the Black Sluice Pumping Station (BSPS) in Boston.

This evidence showed that, whilst the gravity sluice and dual-purpose lock play an important role in managing flood risk to people and property, the pumps do not. They also provided only a negligible benefit to protecting agricultural land (less than 1% of the catchment). See Appendix A for further detail on the asset and decommission.

Following the study and formal consultation, the EA and Black Sluice Internal Drainage Board (BSIDB) took forward two options: a transfer of the BSPS to the IDB or decommission of the asset. This was steered by a partnership of the Environment Agency, BSIDB, Lincolnshire County Council, Boston Borough Council, National Farmers Union, Association of Drainage Authorities and Anglian Northern Regional Flood and Coastal Committee.

In March 2018 it was confirmed by BSIDB that the cost to refurbish the pumps outweighed the resultant benefit and were unable to justify a business case. In October 2018, the partnership announced the formal decommission of the pumps at the Anglian Northern

Regional Flood and Coastal Committee (RFCC) meeting. The adjoining lock and sluice would be the focus of funding and resource for the EA, whilst the BSPS would be re-purposed as a community amenity (if feasible).



Picture 1: The Black Sluice Station in Boston

The EA part-decommission, and re-purposing opportunity are now being led by a Project Team and overseen by a Project Board, ensuring all key partners continue to be involved. See Appendix B for a full list of membership.

2. Update on EA decommission

Whilst the pumps have been decommissioned, the EA remain owners of the building and have continued to maintain the building itself (but not the pumps and associated elements) in the short term.

We are now in the second phase of scoping and designing what decommission looks like and how much it will cost. This will effectively involve making the site safe and 'watertight' to allow the building to be transferred to another Risk Management Authority, leased to an organisation to redevelop or sold on the open market. Whilst the EA will strive to carry out this 'make safe' decommission, the redevelopment of the site itself will need to be delivered by another organisation.

Whilst the partners will strive to deliver the best possible outcome for the town, it is essential to recognise the need to ensure the building remains safe and use public money appropriately. If the redevelopment is not financially viable, other options will need to be progressed such as sale of the building on the market. The project team are working closely with local finance leads and national operations to investigate all options.

3. Update on re-purposing of site

The EA are working with partners to facilitate investigations into a future use for the site and (if feasible) support delivery of works to re-purpose as a local amenity. Once the building has been 'made safe', the proposal is for a competent organisation or business to take on ownership or management of the building and redevelop the site to align with the Boston Town Plan and wider county opportunities.

The heritage value of the site is recognised by all, as shown by the recent Heritage Open Day held on 15 September. This saw a fully booked day with tours around the building to see the engines and learn about its incredible history.

The current proposal is to retain the wow-factor and magnitude of the pumps by building around them a unique visitor experience. With the oldest pumps at its centre, a destination bistro will provide a novel eating experience including outdoor space on the balcony over-looking the river. Set above this will be four self-contained holiday lets affording views of the impressive building, river, or tidal Haven. Education and the environment are central themes to the project, with an opportunity to not only display the engineering capabilities of the past but to embed sustainable and environmentally friendly ways of living for the future. The oldest pumps will remain in situ for schools, local groups and families to visit and learn about the wildlife, economy and history of this unique place. With the Boston Tidal Barrier easily viewed from the site, there is an opportunity to help people understand what is to be at risk from flooding and how we can all become more resilient in a changing climate.

The project will work closely with adjacent businesses in the Lock Cottages, building a strategy for the whole site that will see benefits and opportunities for everyone. With its prime location on both fresh and saltwater boating routes, this project is an opportunity to draw in river users to the area as well as providing a stop-off point on the National Cycle Network.

These discussions are in the early stages and are dependent on funding for the conversation and a strong business case for the proposed design. Whilst the partners while strive to deliver the best possible outcome for the town, it is essential to recognise the need to ensure the building remains safe. If the redevelopment is not financially viable, other options will need to be progressed such as sale of the building on the market.

4. The Black Sluice Complex & Water Management

We continue to maintain the strategically important gravity sluice and dual-purpose lock at the Black Sluice Complex. During normal operation, the levels in the SFF Drain are managed using the gravity or 'day' sluice only. The lock, which was specifically designed as a second gravity sluice, is operated ahead of and/or during high flow events.

The levels in the SFF Drain are managed for a variety of reasons including reducing flood risk, irrigation, and navigation. The sluice cannot discharge water when the tidal level in the Haven is at or above the river level of the SFF Drain (called a 'tide lock' period). This is normal operation for all fluvial-tidal assets. Prior to decommission, operational procedures were reviewed and updated. We now create capacity in the SFF Drain ahead of high rainfall events and utilise the lock as a second gravity sluice. This method is as effective as and more efficient than using the pumps, even accounting for the tide lock period, and allows deployment of critical field staff elsewhere in the area.

Over the summer of 2020 we delivered a £1m detailed asset inspection and refurbishment of the navigation lock to ensure it remains operational and resilient into the future. This year we are scoping the detailed inspection and refurbishment of the gravity or 'day' sluice for works next year. This will include upgrading the control system and dam board system to ensure efficient and effective maintenance for the longer term.

Partnership working is essential to manage water as a whole in the SFF catchment, and we continue to work closely with Black Sluice IDB both in and out of flood incidents. We are finalising the updated Operational Contingent Plan and Flood Incident Procedures for the asset, which includes mapping of all asset failure scenarios e.g., a sluice gate failing closed or a major obstruction in channel. BS IDB are providing vital input into this document, which will continue as we move onto reviewing Operational Action Plans for the catchment as a whole.

5. Conclusion

The Flood and Water Management Scrutiny Committee is invited to consider and comment this report and to receive the updates provided.

3. Consultation

a) Risks and Impact Analysis

N/A

4. Appendices

These are listed below and attached at the back of the report	
Appendix A	Key Facts and Figures for the asset and decommission decision
Appendix B	Project Governance

5. Background Papers

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

This report was written by Abigail Jackson, Project Lead, Environment Agency, and sponsored by Morgan Wray, FCRM Manager, Environment Agency, who can be contacted on morgan.wray@environment-agency.gov.uk.

Key Facts and Figures for the asset and decommission decision

- The pump station was constructed in 1946 with 3 diesel pumps, followed by an additional two pumps in 1966.
- When operational, they were able to move 60 cubic metres of water per second. However, generally only two pumps were ever operated and for short 1–2-hour periods. In their lifetime, the pumps sat idle 99% of the time.
- In comparison, gravity discharge from the lock and sluice is at least 90 cubic metres and can operate automatically (with no human intervention).
- The EA must prioritise their limited funding to people and property and will continue to invest in the operation and resilience of the lock and sluice as well as other important flood risk structures in the area.

A study called the Black Sluice Catchment Works (BSCW) from 2012-2016 assessed flood risk across the SFF catchment, including the role of the pumps. This rigorous study included modelling of the system (for various scenarios), an economic assessment and full public consultation. The key conclusions of this study were:

- The pumps were at the end of their operational life and required significant funding to refurbish (£2-3m minimum).
- The pumps being operated provided no benefit for people and their homes, and only reduced flooding of agricultural land by ~178ha (0.3% of the catchment).
- Whilst the preferred option by the public was for the Environment Agency to refurbish the pumps, the lack of properties protected meant there was no business case to secure the funding required.
- The next preferred option was for the Black Sluice Internal Drainage Board (IDB) to take on the building and operate them, alongside the EA operated sluice and lock. This was not financially viable.
- The best option economically was to decommission the pump station and focus funding and resource on the lock/sluice complex and sustaining the SFF banks.

Project Governance

Project Board governance:

Organisation	Representative
Environment Agency	Morgan Wray (Chair)
	Pete Reilly
	Kamen Kalchev (Project Exec)
	Abigail Jackson (Project Lead)
	Maria Piraino
Boston Borough Council	Michelle Sacks
	ClIr Paul Skinner
	Lydia Rusling
Lincolnshire County Council	Ian Walker
Heritage Lincolnshire	Greg Pickup
Black Sluice IDB	Jonathan Fowler

Project Team governance:

Organisation	Representative
Environment Agency	Abigail Jackson (Chair)
	Maria Piraino
	Ian Watts (Waterways)
	Antony Georgiou (Decommission)
	Zoe Conville (Boston Barrier)
Heritage Lincolnshire	Hannah Thompson
Boston Borough Council	Neil Cucksey
	ClIr Richard Austin
Lincolnshire County Council	Peter Fender
Other partners	Mick Taylor (Taylor Itex)



Open Report on behalf of Andy Gutherson, Executive Director Place

Report to:	Flood and Water Management Scrutiny Committee
Date:	29 November 2021
Subject:	Investigations undertaken under Section 19 of the Flood and Water Management Act 2010.

Summary:

This is a standing item to inform the Committee of the status of all current flood investigations being undertaken in the County.

Actions Required:

Members are asked:

1. To view the current list of completed and active flood investigations online at <https://www.lincolnshire.gov.uk/flood-risk-management/flood-investigations>
2. Inform Democratic Services in advance if they wish to raise any particular sites at the forthcoming Committee meeting.

1. Background

This is a standing item to inform the Committee on the position of all current Section 19 investigations in the County. The Committee will be aware that all such investigations are published on the County Council's website by means of an interactive map, whether the investigation is completed, actively under investigation or awaiting works to mitigate future flooding.

It is a duty under Section 19, Flood & Water Management Act 2010 (F&WMA) for the Lead Local Flood Authority (LLFA) to carry out investigations to identify which Risk Management Authorities (RMAs) have a flood risk management function in connection with the flood and whether they have exercised, or intend to exercise, that function in response to the flood. To assist with this, Lincolnshire County Council as the LLFA makes recommendations for proportionate works to manage future flood risk, to be delivered by individual RMAs or in partnership as considered appropriate or expedient. Such recommendations are also published although this is over and above the requirements of the F&WMA; all

recommendations for mitigation works and the RMA leading those works are available to view on the interactive mapping. If Members have any site-specific questions, they are requested to contact the Flood Risk Manager in advance of the meeting.

The Committee will recall that at the meeting in September members' attention was drawn to the workload generated by significant and widespread flooding in 2019 and 2020, with the prospect of 2021 also producing a higher-than-average number of flood investigations. The Committee was informed of proactive steps being taken to streamline the investigation process to address not only the current incomplete investigations but also to assist with better managing the process in future whilst maintaining the high quality of investigation reports. Members will be pleased to learn that the benefits of the measures put in place are being realised with an increased turn over and delivery of flood investigations which nonetheless continue to be carried out in a professional manner.

With regards to new flood investigations starting in Quarter 2 of 2021/22 (July to September), there were 13 investigations commenced affecting 16 properties. This was mainly due to a wet conclusion to July although according to the Environment Agency, overall rainfall in the County in July was between 100% and 137% of the long-term average which is considered normal for the time of year. However, despite a relatively dry August and thanks to a period of heavy rain in mid-September, across the region rainfall totals for Quarter 2 were considered to be above normal. Significantly, in the south of the County the Welland and Nene catchments totals for the 12 months to September 2021 were still considered to be exceptionally high.

By way of comparison, Table 1 below illustrates the total number of flood investigations undertaken annually, with the figure for 2021 (36 investigations) correct as at the end of September.

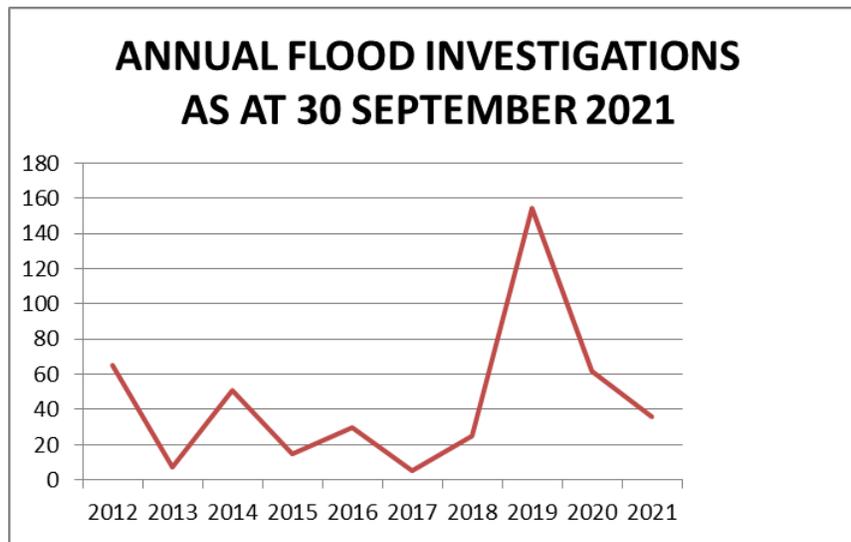


Table 1: Total annual S.19 flood investigations 2012-2021

By way of information, the Committee may be interested to learn that although groundwater levels had recessed in line with seasonal trends over the Quarter 2 period, such was the continued impact of the winter 2020/21 recharge of aquifers that it was not until September that groundwater levels in the County were considered to be normal for

the time of year. This will have started to have a positive influence on local flooding issues related to groundwater, such as less infiltration into underground drainage apparatus, a reduction in active springs and less likelihood of water emerging onto the surface in gardens and fields following 'normal' rainfall.

2. Conclusion

Despite the continued pressure on resources as a result of the above-average number of flood investigations being initiated, progress is being made in managing the backlog of investigations while maintaining quality. In this way, appropriate, reasonable and proportionate works to mitigate local flood risk will continue to be promoted to protect our communities and individual properties alike.

3. Consultation

a) Risks and Impact Analysis

N/A

4. Background Papers

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

This report was written by Paul Brookes, Flood Risk Manager, who can be contacted on 07787836877 or paul.brookes@lincolnshire.gov.uk.

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Open Report on behalf of Andrew Crookham, Executive Director - Resources

Report to:	Flood and Water Management Scrutiny Committee
Date:	29 November 2021
Subject:	Flood and Water Management Scrutiny Committee Work Programme

Summary:

This item enables the Committee to consider and comment on the content of its work programme to ensure that scrutiny activity is focused where it can be of greatest benefit. Members are encouraged to highlight items that could be included for consideration in the work programme.

The work programme will be reviewed at each meeting of the Committee to ensure that its contents are still relevant and will add value to the work of the Council and its partners.

Actions Required:

The Committee is invited to: -

- (1) review, consider and comment on the work programme; and,
- (2) highlight for discussion any additional scrutiny activity which could be included for consideration in the work programme; and note the terms of reference of the Flood and Water Management Scrutiny Committee, as agreed by the County Council.

1. Background

Overview and Scrutiny should be positive, constructive, independent, fair and open. The scrutiny process should be challenging, as its aim is to identify areas for improvement. Scrutiny activity should be targeted, focused and timely and include issues of corporate and local importance, where scrutiny activity can influence and add value.

Overview and scrutiny committees should not, as a general rule, involve themselves in relatively minor matters or individual cases, particularly where there are other processes, which can handle these issues more effectively.

All members of overview and scrutiny committees are encouraged to bring forward important items of community interest to the committee whilst recognising that not all items will be taken up depending on available resource.

2. Work Programme

29 NOVEMBER 2021	
Item	Contributor
1. Flood & Coastal Innovation Programme - the Greater Lincolnshire Groundwater Project	David Hickman, Head of Environment Paul Brookes, Flood Risk Manager – Environment Matthew Harrison, Senior Commissioning Officer - Flood Risk - Place
2. Coastal Adaptation Strategy	David Hickman, Head of Environment
3. Lincolnshire Fire and Rescue New Pumping Equipment	Mark Baxter, Chief Fire Officer
4. Consultation on the second cycle Flood Risk Management Plans (FRMPs)	Matthew Harrison, Senior Commissioning Officer Flood Risk
5. Black Sluice Pumping Station Project	Morgan Wray, Area Flood and Coastal Risk Manager
6. Investigations undertaken under Section 19 of the Flood and Water Management Act 2010	Paul Brookes, Flood Risk Manager
7. Environment Agency Update	Morgan Wray, Area Flood and Coastal Risk Manager
8. Anglian Water Update	Jonathan Glerum, Anglian Water

21 FEBRUARY 2022	
Item	Contributor
1. Development Fund – Drainage Investigations and Flood Repairs - Update	Matthew Harrison, Senior Commissioning Officer Flood Risk
2. Property Level Resilience Trial Project	Paul Brookes, Flood Risk Manager
3. Red Diesel Ban- Impact on IDBs	David Hickman, Head of Environment
4. Investigations undertaken under Section 19 of the Flood and Water Management Act 2010	Paul Brookes, Flood Risk Manager
5. Environment Agency Update	Morgan Wray, Area Flood and Coastal Risk Manager
6. Anglian Water Update	Jonathan Glerum, Anglian Water

23 MAY 2022	
Item	Contributor
1. Flood and Coastal Resilience and Innovation Programme - submission of outline business case feedback on decision by the Executive on 5 April 2022	David Hickman, Head of Environment Paul Brookes, Flood Risk Manager Matthew Harrison, Senior Commissioning Officer - Flood Risk - Place
2. Digby Flood Alleviation Scheme – Report on outcomes from the completion of the scheme	Paul Brookes, Flood Risk Manager
3. Investigations undertaken under Section 19 of the Flood and Water Management Act 2010	Paul Brookes, Flood Risk Manager
4. Environment Agency Update	Morgan Wray, Area Flood and Coastal Risk Manager
5. Anglian Water Update	Jonathan Glerum, Anglian Water

3. Items to be Considered/Programmed

- Riparian Watercourse Project – Progress and Next Steps
- Natural Flood Management
- Memorandum of Understanding with Districts on incident response and provision of temporary resilience measures
- Coastal Adaptation Strategy

4. Conclusion

Members of the Committee are invited to review, consider and comment on the work programme and highlight for discussion any additional scrutiny activity which could be included for consideration in the work programme.

Consideration should be given to the items included in the work programme as well as any 'items to be programmed' that may be listed.

5. Consultation

a) Risks and Impact Analysis

Not Applicable

6. Background Papers

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

This report was written by Kiara Chatziioannou, Scrutiny Officer, who can be contacted on 07500 571868 or by e-mail at kiara.chatziioannou@lincolnshire.gov.uk.

Forward Plan of Decisions relating to the Flood and Water Management Scrutiny Committee

MATTERS FOR DECISION	DATE OF DECISION	DECISION MAKER	PEOPLE/GROUPS CONSULTED PRIOR TO DECISION	HOW AND WHEN TO COMMENT PRIOR TO THE DECISION BEING TAKEN	KEY DECISION YES/NO	DIVISIONS AFFECTED
Flood and Coastal Resilience and Innovation Programme - submission of outline business case 1022487	5 April 2022	Executive	Flood and Water Management Scrutiny Committee; Environment and Economy Scrutiny Committee; partner organisations; local communities	David Hickman, Head of Environment, E-mail: david.hickman@lincolnshire.gov.uk	Yes	Louth Wolds; Market Rasen Wolds; Metheringham Rural; North Wolds