



County Offices
Newland
Lincoln
LN1 1YL

23 April 2014

Flood and Drainage Management Scrutiny Committee

A meeting of the Flood and Drainage Management Scrutiny Committee will be held on **Thursday, 1 May 2014 at 10.30 am in Boston Borough Council, West Street, Boston, PE21 8QR (see attached map showing the location of the Fydell Street Car Park)** for the transaction of the business set out on the attached Agenda.

Yours sincerely

A handwritten signature in black ink, appearing to be 'Tony McArdle', written over a horizontal line.

Tony McArdle
Chief Executive

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

Councillors C L Strange (Chairman), Mrs V C Ayling (Vice-Chairman), A M Austin, C J T H Brewis, A Bridges, M Brookes, R G Fairman, J R Marriott, N M Murray, C Pain and R A Renshaw

Other Voting Members

District Councillors: I G Fleetwood, West Lindsey District Council
D Jackson, City of Lincoln Council
R F Leggott, Boston Borough Council
Mrs F M Martin MBE, East Lindsey District Council
J Money, North Kesteven District Council
B Russell, South Kesteven District Council
M D Seymour, South Holland District Council

**FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE AGENDA
THURSDAY, 1 MAY 2014**

Item	Title	Pages
1	Apologies/Member Replacements	
2	Declarations of Members' Interests <i>(Councillors are reminded that there is no need to declare an interest if it has already been recorded on the register of disclosable pecuniary interests (DPIs) or notified to the Monitoring Officer in accordance with the regulations. However, Councillors declaring interests must state what the DPI is and accordingly not speak or vote on the item)</i>	
3	Minutes of the previous meeting of the Committee held on 30 January 2014	1 - 10
4	Announcements by Councillor Colin Davie, the Executive Councillor for Economic Development, Environment, Planning and Tourism and Steve Willis, Assistant Director (Environment, Planning and Customer Services)	Verbal Report
5	Announcements by other Agencies and Partners	Verbal Report
6	Investigations undertaken under Section 19 of the Flood and Water Management Act 2010 <i>(A standing item report by Mark Welsh, Flood, Water and Major Developments Manager, in connection with the position of all current Section 19 investigations in the County)</i>	11 - 22
7	Lincshore and Saltfleet to Gibraltar Point Coastal Management Review - Update <i>(To receive a verbal update on the approaches being considered for the future flood risk management of the coast between Saltfleet and Gibraltar Point)</i>	Verbal Report
8	Flood and Drainage Management Scrutiny Committee Work Programme	23 - 26
9	Site Visit Arrangements for the afternoon <i>(See proposed itinerary attached for the site visit in the afternoon)</i>	27 - 28

Democratic Services Officer Contact Details

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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.

All papers for council meetings are available on:
www.lincolnshire.gov.uk/committeerecords



**FLOOD AND DRAINAGE
MANAGEMENT SCRUTINY
COMMITTEE
30 JANUARY 2014**

PRESENT: COUNCILLOR C L STRANGE (CHAIRMAN)

Councillors Mrs V C Ayling (Vice-Chairman), A M Austin, C J T H Brewis, M Brookes, R G Fairman, D C Hoyes MBE, J R Marriott, N M Murray, C Pain and R A Renshaw

District Councillors I G Fleetwood (West Lindsey District Council), D Jackson (City of Lincoln Council), Mrs F M Martin MBE (East Lindsey District Council), J Money (North Kesteven District Council), B Russell (South Kesteven District Council) and M D Seymour (South Holland District Council)

External Agencies – R Caudwell (Anglian North Regional Flood and Coastal Committee), P Drury (Boston Borough Council), M Robinson (Environment Agency) and P Bateson (Association of Drainage Authorities, deputising for P Sissons)

Councillors J P Churchill, C J Davie, P A Robinson and A H Turner MBE JP, attended the meeting as observers

Officers in attendance:-

Steve Blagg (Democratic Services Officer), David Hickman (Environmental Services Team Leader (Strategy and Partnership), Sean Kent (Head of Environmental Services), David Powell (Head of Emergency Planning), Louise Tyers (Scrutiny Officer), Mark Welsh (Floods, Water and Major Developments Manager) and Steve Willis (Assistant Director, Environment, Planning and Customer Services)

29 APOLOGIES/REPLACEMENT MEMBERS

An apology for absence was received from District Councillor R Leggott (Boston Borough Council). Councillor D C Hoyes MBE replaced Councillor A Bridges for this meeting only.

30 DECLARATIONS OF MEMBERS' INTERESTS

District Councillor J Money declared a pecuniary interest in minute as he owned land adjoining the property (Main Street, Scopwick).

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31 MINUTES OF THE PREVIOUS MEETING OF THE COMMITTEE HELD ON
1 NOVEMBER 2013

RESOLVED

That the minutes of the previous meeting of the Committee held on 1 November 2013, be agreed as a correct record and signed by the Chairman.

32 ANNOUNCEMENTS BY THE EXECUTIVE COUNCILLOR FOR
ECONOMIC DEVELOPMENT, ENVIRONMENT, PLANNING AND
TOURISM AND THE ASSISTANT DIRECTOR ENVIRONMENT,
PLANNING AND CUSTOMER SERVICES

The Chairman stated that a special meeting of the Committee would be arranged for either late May or early June 2014 in order to prepare a response from the County Council to the Government and relevant agencies in connection with the recent flooding of the east coast on 5 December 2013. He added that in addition to the business part of the meeting it was also proposed to arrange a site visit to Boston and affected farmland at the next meeting on 1 May 2014.

Executive Councillor C J Davie stated that he had attended a recent meeting at the Department for Communities and Local Government at which he had been informed that the Prime Minister and the Secretary of State for the Department for Environment, Farming and Rural Affairs were due to make further announcements on the recent floods. He added that there was a need to find a long term solution to address the problems of coastal flooding and also referred to the need to examine the strategic planning implications of building on flood plains.

Executive Councillor C J Davie played tribute to the work of all those involved in the flooding events which had happened on 5 December 2013, adding that the Lincolnshire partnership had worked well especially the protection given by beach nourishment (Lincshore).

The Committee supported Councillor R A Renshaw's appreciative comments on the arrangements for the site visit organised by the Internal Drainage Board and the Environment Agency following the Committee on 1 November 2013.

33 EFFECTS OF INCLEMENT WEATHER IN DECEMBER 2013 ON THE
EAST COAST - PRESENTATION

The Chairman referred to the effects of the floods caused by the sea surge on 5 December 2013 and wished to allow those agencies directly affected by the event to speak to the Committee about their experiences of the day and its aftermath. He also allowed Councillor R Austin, from Boston Borough Council, who was in attendance, to speak on this matter although he was not their nominated representative.

Mark Robinson from the Environment Agency gave a presentation and commented as follows:-

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1. The weather patterns leading up to the event was explained.
2. The action taken to repair damage was explained.
3. Photographs of the aftermath were presented.
4. Sea defences had been breached in Boston, nearby farmland and river and sea banks had been damaged.

Robert Caudwell, a representative on the Anglian North Regional Flood and Coastal Committee, and also a Farmer with land near the sea, commented as follows:-

1. Despite the UK having some of the best weather forecasting in the world there was only any certainty about the impending storm on the afternoon of 5 December 2013 and therefore the implications of this short notice should be considered.
2. Funding to repair the damage caused by the storm had not been confirmed but any funding would only meet the cost of reinstating damage to the level which existed on 4 December 2013. There would be no improvement to the defences and should there be a repeat event it was important that the defences were improved.
3. The need for the government to take a long term view as the Shoreline Management Plans had changed.
5. He farmed high grade agricultural land at Friskney and the sea defence frontages had been breached in two places and had flooded 550 acres of his land. While the water had been removed from his the land the two breaches had not been repaired because of the expense involved and would have to be met from private funding.
6. The Witham Internal Drainage Board and the Environment Agency were thanked for their help.

Phil Drury, Deputy Chief Executive and Strategic Director, Boston Borough Council, commented as follows:-

1. He had chaired the recovery process in Boston with many partners involved.
2. The impact of the flooding on 580 properties was outlined with most of them concentrated in a small part of Boston which suffered high levels of deprivation.
3. The area had a high level of privately rented property and landlords were working well with their tenants but the events did show that migrant communities were not aware of what to do in an emergency.
4. 150 families were currently not in their homes. Some still remained in their homes but should not be there due to the conditions.
5. The service provided by the insurance firms had been good.
6. 350 tonnes of unrecoverable waste material had been removed from affected homes.
7. The centre of Boston had recovered well with the water coming and going quickly.
8. The emergency planning put in place had worked well.

David Powell, Emergency Planning Officer, commented as follows:-

1. The recovery operation was on-going and a full report would be submitted to a future meeting.
2. The partnership arrangements had worked well with preparations being implemented as soon as the weather warning arrived.

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3. 200,000 visitors had visited the Lincoln Xmas Market over the same period as the flooding.
4. Sightseers presented a safety problem and it was fortunate that there had not been any fatalities.
5. The wind direction had been parallel to the shore on 5 December and if it had been blowing towards the shore then the damage would have been much greater.
6. Residents likely to be affected were given advanced warning to evacuate and most had moved out.
7. All partners had done a tremendous job including the voluntary sector.
8. Lessons from the event were being examined and a detailed report would be submitted to a future meeting.

Mark Welsh, Floods, Water and Major Developments Manager, commented and gave a presentation, including the legal necessity to produce a Section 19 Investigation Report on the coastal surge flood event.

Officer's responses to comments made by the Committee, included:-

1. The Secretary for State the Environment, Farming and Rural Affairs in his visit to the area following the floods had stated that he was very supportive of all agencies and that in the future more capital investment from the government alongside partnership funding would be made available for flood defences. Enormous capital investment to improve flood defences around the country was required.
2. Businesses needed to be certain that action was being taken to prevent flooding from the sea before they would invest.
3. There was a need to make the government aware of food security as Lincolnshire had some of the best agricultural land in the country.
4. The comments in connection with the need to maintain tidal flaps and to deter sightseers possibly through road closures were noted.
5. A Memorandum of Understanding was in place between the Environment Agency and Natural England to take immediate action to clear salt water from agricultural land and it was hoped to bring the Memorandum of Understanding to the Committee at a future meeting.
6. The use of high level pumps was being investigated but it was stated that many industrial pumps were being used in urban areas.
7. Liaison with neighbouring local authorities and the military in case there was a need for people to be evacuated had taken place and arrangements to accommodate evacuees had been put in place.
8. Problems in connection with the Black Sluice Pumping Station being resolved and the risk to nearby properties was low as only four properties were affected. It was suggested that it might be better economics to invest in the resilience of the properties as three pumps were over 70 years old. This matter would be examined at the next meeting.
9. A national review of weather forecasting would be examined alongside other lessons learnt from the event. However, the forecast for Boston was correct for 5 December 2013.
10. The Gibraltar Point Nature Reserve had been seriously damaged by the floods; a waste transfer station had been required to deal with 350 tonnes of waste; the second line of defences was being trialled by South Holland District Council; a review

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of partnership funding by the government could affect funding at a local level; the increased investment made by the County Council which would support increased capital investment in flood defences; the effects of Bellwin scheme (a method whereby local authorities could claim back money from the government for events such as the coastal surge once a threshold of expenditure had been exceeded by that authority).

11. Dredging of The Haven, in Boston, would not have made any difference as the whole of the North Sea was affected on the 5 December 2013.

12. Councillor C Pain would speak to the Executive Councillor for Economic Development, Environment, Planning, Tourism and the Environment Agency about dredging of the River Steeping, Burgh le Marsh, and the possible donation of no longer used machinery by the Environment Agency, to the local Internal Drainage Board. It was noted that Councillor C Pain agreed to keep Councillor F M Martin of developments.

It was agreed that an additional meeting of the Committee would be arranged towards the end of May/early June 2014, to receive a report on the effects and outcome of the sea surge on 5 December 2013 and that the report should be written in such a way that the Executive Councillor for Economic Development, Environment, Planning, Tourism could use its contents to send to the Government and in any discussions on the long term needs of the coast.

RESOLVED

That an additional meeting of the Committee be arranged either at the end of May or early June 2014, to receive a report on the effects and outcome of the sea surge on 5 December 2013, and that the report be written in such a way that the Executive Councillor for Economic Development, Environment, Planning, Tourism can use it in his conversations with central Government and in any discussions on the long term needs of the coast.

34 IMPLEMENTATION OF SCHEDULE 3 OF THE FLOOD AND WATER
MANAGEMENT ACT 2010 - SUSTAINABLE URBAN DRAINAGE
SYSTEMS (SUDS)

Mark Welsh presented a report and gave a presentation on progress in connection with the implementation of Sustainable Urban Drainage Systems (SuDS). He stated that the latest situation in connection with the timescale for the introduction of SuDS was that the implementation date of early April 2014 would likely be delayed until October 2014.

Officer's responses to the comments made by the Committee, included:-

1. The implications of a developer going in to liquidation was explained but would involve the submission of a Bond by the developer to mitigate any cost for the local authority.
2. The charging of residents on new developments was still being examined. A possible option could be to collect monies through the Council Tax as individual

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billing was expensive. It was noted that the Internal Drainage Boards currently billed the District Councils.

3. The SuDS Approval Body (SAB) would be the County Council and the Council would be required to consult other agencies before any development could take place. Should a development be refused then the developer could appeal against the decision.

4. SuDS were designed to prevent paved areas causing flooding issues.

5. Sewerage removal needed to have approved connections to sewers.

6. The inspection process for SuDS prevented problems from flooding occurring later on in the process.

7. It was possible for a SAB to sign off a development as satisfactory to proceed but there could be a maintenance fee which might have to be paid by either the SAB or the developer. The Council had concerns about maintenance costs due to the uncertainty about charging.

8. The number of planning applications was difficult to predict.

9. Charges for developers by the SAB were set by Defra.

10. The Local Government Association had requested that the Government delay the implementation of SuDS to October 2014.

12. The need for pre-planning discussions about drainage between the County Council and the developers was important.

RESOLVED

That the report and the impact of the proposals on the County Council as the Lead Local Flood Authority, be noted.

ADJOURNMENT

The Committee adjourned for lunch from 12.30pm to 1.00pm and on its return all Members were present at the start of the meeting with the exception of County Councillor N E Murray and District Councillor D Jackson, City of Lincoln Council.

35 TO REPORT PROGRESS ON THE INVESTIGATIONS UNDERTAKEN IN THE COUNTY UNDER SECTION 19 OF THE FLOOD AND WATER MANAGEMENT ACT 2010

Mark Welsh presented a standing report on the position of all current Section 19 investigations in the County.

Councillor F M Martin MBE gave an update on the situation in Mark Avenue, Horncastle and the discussions between the Witham Third Drainage Board and Anglian Water over ownership of the flood relief culvert. She stated that it was disappointing that Anglian Water were now claiming that they did not own the culvert and the support of the Committee was requested in trying to bring the matter to a resolution.

Officer's responses to comments made by the Committee included:-

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1. Anglian Water would be contacted to take action to correct flooding in Mark Avenue, Horncastle.
2. Anglian Water and other partners would be contacted in connection with drainage issues on St Catherine's Grove, Lincoln.
3. Langworth would be included on the list of investigations.
4. Flooding issues at Wainfleet St Mary's and Burgh-le-Marsh would be examined but the Committee was reminded that Section 19 investigations only covered the internal flooding of properties.
5. The Area Highway's Team was examining flooding issues in Scopwick and the role of the Witham 1st Internal Drainage Board in this area was explained. This matter would be further examined and appropriate action taken.
6. The issues raised by Councillor J R Marriott in connection with the effects of the installation of gas mains on a culvert in North Hykeham would be investigated.

RESOLVED

- (a) That the Committee was unhappy with the current situation at Mark Avenue, Horncastle and requested that the matter be resolved with Anglian Water as a matter of urgency.
- (b) That the current Section 19 investigations in the County and the actions by officers following the comments raised by the Committee, be noted.

36 FLOOD RISK MAPS - NEW PUBLICATIONS WHICH NOW INCLUDE
 SURFACE WATER MAPS

Mark Welsh presented a report and gave a presentation on the new and updated flood maps which were published on the Environment Agency's website from 12 December 2013 and now included surface water flood maps for the first time.

Officer's responses to comments made by the Committee included:-

1. For planning applications the "sequential test" was used and if there was a need to build on a flood plain then the appropriate alleviation measures needed to be taken.
2. Flood risk information in the maps was available to insurance companies and on the public website. It was important that the most informative information was available for everyone to avoid any misunderstandings. It was noted that the Environment Agency and Insurance Companies would be co-operating on this area.
3. The public was being informed about the action they could take to prevent flooding, there was a need to examine the effects of surface water flooding in more detail and to engage with the public about this issue.

The Chairman concluded by referring to good examples of flood prevention in Waddingham, in his electoral Division, and suggested that information could be sent to residents living in areas prone to flooding with their Council Tax bills and the action they themselves could take to prevent flooding.

RESOLVED

That the report and presentation be noted.

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37 IMPLEMENTING THE FLOOD RISK REGULATIONS 2009 - THE FLOOD RISK MANAGEMENT PLAN

David Hickman presented a report in connection with progress in implementing the Flood Risk Management Plan, the final key measure required under the Flood Risk Regulations 2009.

The Committee were satisfied with the implementation of the Plan and the Committee's role in steering the development of the Plan. Officers stated that the final deadline date for implementation of the Plan was December 2015 and added that strategies were in place to use local public knowledge about flooding.

RESOLVED

That the report and progress in implementing the Flood Risk Management Plan be noted.

38 FLOOD INSURANCE SCHEME

Steve Willis gave a verbal update of the implementation on the flood insurance scheme adding that he would submit a report to the Committee when the details of the scheme were finalised. It was noted that the principles of the scheme and a Memorandum of Understanding between the Association of British Insurers and the Government had been agreed.

RESOLVED

That the report be noted and that a further report be submitted to the Committee when the finalised details of the scheme had been agreed.

39 EXERCISE LAZARUS

Steve Willis presented a report in connection with the recovery plan exercise carried out on 26 November 2013 (Exercise Lazarus).

The officer stated that the lessons learnt from the events of 5 December 2013 (sea surge on the east coast) would be incorporated in to the recovery plan and brought to a future meeting.

RESOLVED

That the report and comments made by the Committee on the recovery plan be noted and that the updated Recovery Plan be brought to a future meeting.

40 FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE WORK PROGRAMME

Louise Tyers presented a report in connection with the Committee's Work Programme.

FLOOD AND DRAINAGE MANAGEMENT SCRUTINY COMMITTEE
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RESOLVED

That the Work Programme be noted subject to the following:-

1. The need to arrange a special meeting of the Committee in either late May or early June 2014, to consider the response on the effects and outcome of the sea surge on the east coast on 5 December 2013.
2. In addition to the business part of the meeting on 1 May 2014, it was noted that a site visit to Boston and affected farmland by flooding would also be arranged.
3. The Councillor Development Group should be asked to examine arrangements for a possible training event on flooding matters for the Committee, in Autumn 2014.

The meeting closed at 2.15 pm

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Policy and Scrutiny

Open Report on behalf of Richard Wills, Director for Economy and Environment

Report to:	Flood and Drainage Management Scrutiny Committee
Date:	1 May 2014
Subject:	Investigations undertaken under Section 19 of the Flood and Water Management Act 2010

Summary:

This is a standing item to inform the Committee on the position of all current Section 19 investigations in the County.

Actions Required:

The Committee is asked to consider the current Section 19 spreadsheet at Appendix A and inform Louise Tyers, Scrutiny Officer in advance if they wish to raise any particular site(s) at the forthcoming Committee.

1. Background

As part of the County Council's duties as Lead Local Flood Authority, we are required to carry out investigations into flooding incidents, from any source, under Section 19 of the Flood and Water Management Act. Section 19 requires that we carry out investigations "to the extent that we consider necessary or appropriate" and the Guiding Principles Note outlines the criterion where formal investigations will be undertaken, the main one being where internal property flooding has taken place.

We are then required to publish the results of the investigations, in particular identifying which Risk Management Authorities (e.g. ourselves, district councils, the Environment Agency, water companies and internal drainage boards) have responsibilities and whether they are to exercise their functions.

2. Investigations

The spreadsheet at Appendix A summaries the investigations which have taken place in terms of; a description of the flooding at the respective locations, which risk management authorities have responsibilities and whether they are to exercise

their functions, together with a brief description of actions and recommendations, including target timescales.

3. Results of Section 19 investigations and publishing in accordance with the Flood and Water Management Act

In order to satisfy Section 19 of the Flood and Water Management Act the County Council as Lead Local Flood Authority has a duty to investigate flooding (to the extent that it considers it necessary), determine which risk management authorities have responsibility and if they are going to exercise their functions, then publish the results. Section 19 of the Flood and Water Management Act states:

Section 19 – Local authorities: investigations

- (1) *On becoming aware of a flood in its area, a lead local flood authority must, to the extent that it considers it necessary or appropriate, investigate-*
 - (a) *which risk management authorities have relevant flood risk management functions, and*
 - (b) *whether each of those risk management authorities has exercised, or is proposing to exercise, those functions in response to the flood.*
- (2) *Where an authority carries out an investigation under subsection (1) it must-*
 - (a) *publish the results of its investigations, and*
 - (b) *notify any relevant risk management authorities.*

4. Conclusion

Members are asked to consider the summary of the reports into flooding, carried out under Section 19 of the Flood and Water Management Act, at Appendix A and to notify Louise Tyers, Scrutiny Officer in advance of the meeting if they wish to raise any particular site(s) at the meeting.

5. Appendices

These are listed below and attached at the back of the report	
Appendix A	Spreadsheet summarising investigations under Section 19 of the Flood and Water Management Act

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 Mark Welsh, who can be contacted on 01522 782070 or mark.welsh@lincolnshire.gov.uk

DUTY TO INVESTIGATE
SECTION 19 ON-GOING INVESTIGATIONS

Date	Location	Town	Division	Contact Officer	Description of Flooding	No of Properties internally Flooded	Risk Management Authorities with Responsibilities and whether they are exercising functions	Actions and Recommendations	Proposed Action/Works	Promoter
28-Jun-12	East Street and Stanhope Road Area	Horncastle	East	Dean Myhill Area Highways Manager East Division Northern Area	Extreme rainfall (estimated to be a 1 in 50 year event) caused overland and highway surface water flows to collect at the low area of East Street and Stanhope Road. The extreme rainfall overwhelmed the highway drainage system which was also suffering from surcharged outfalls due to high river levels.	2	LCC - Yes	LCC have undertaken a CCTV survey of the highway drainage system in the area which has identified some minor defects and obstructions which will be addressed. LCC have also undertaken initial modelling work to help understand and assess the surface water flood risk in Horncastle. A further meeting with Anglian Water is to be arranged, and a bid for an overall surface water study for Horncastle is being submitted by LCC.	Meeting with Anglian Water to be arranged Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17	LCC / AW
28-Jun-12	West Street	Horncastle	East	Dean Myhill Area Highways Manager East Division Northern Area	Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from adjacent school field, hillside and Lincoln Road. The surface water collected at the bottom of the hill causing flooding to the Grammar School and adjacent properties in West Street.	3	LCC - Yes Anglian Water - Yes	LCC have undertaken a check of the highway drainage system in West Street and have cleaned out a number of gullies and removed the blockages. LCC have also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. A bid for an overall surface water study for Horncastle is being submitted by LCC.	Blockages removed and gas main relocated Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17	LCC
28-Jun-12	South Street and Bull Ring	Horncastle	East	Dean Myhill Area Highways Manager East Division Northern Area	Extreme rainfall (estimated to be a 1 in 50 year event) caused overland and highway surface water flows to collect at the low area of the Bull Ring and South Street overwhelming the Anglian Water sewer systems, which were also suffering from surcharged outfalls due to high river levels.	3	Anglian Water - Yes LCC - Yes	Whilst the flooding was caused by extreme rainfall and overland flows, LCC have undertaken a CCTV survey of the underground surface water systems. This has revealed a number of condition concerns in relation to a brick culvert system owned by Anglian Water. The report has been passed to Anglian Water in order that they consider future action and repairs. LCC have in addition carried out repairs to gullies and connections in South Street. LCC have also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. A bid for an overall surface water study for Horncastle is being submitted by LCC. Anglian Water works to clear blockages have been completed. Planned Environment Agency works regarding outfall issues and river levels may reduce issues.	LCC Gullies and system checked and repaired. Anglian Water checking Surface Water systems (ongoing) Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17	LCC
28-Jun-12	Langton Hill	Horncastle	East	Dean Myhill Area Highways Manager East Division Northern Area	Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent hillside and agricultural land, which was not contained by the interceptor ditch. Combined overland and highway surface water overwhelmed both the highway and surface water sewer drainage systems on Langton Hill and West Street, and caused flooding at the bottom of the hill.	3	LCC - Yes Anglian Water - Yes Witham 3rd IDB - Yes	A full drainage survey has been carried out and significant blockages have been removed from both the highway drains and Anglian Water's surface water sewers. The survey has identified a number of areas of damage to both systems. LCC has repaired the highway drainage system, and the survey has been forwarded to Anglian Water for assessment of their surface water sewers. The Witham 3rd Internal Drainage Board is ensuring that ditches are cleared by respective riparian land owners. LCC and Anglian Water have completed works to clear blockages and repair damaged sections.	Highway drainage system repaired and functioning. Anglian Water assessing the Surface water system (by Autumn 2013) Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17	LCC
28-Jun-12	Mark Avenue, Accommodation Road and Prospect Street	Horncastle	East	Dean Myhill Area Highways Manager East Division Northern Area	Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent hillside and agricultural land. This was exacerbated by the interceptor ditch being restricted at its entrance to the culvert system, which caused flooding to properties in Mark Avenue, Accommodation Road and Prospect Street.	14	Anglian Water - Yes Witham 3rd IDB - Yes East Lindsey District Council - Yes	Whilst the flooding was caused by extreme rainfall and flows from adjacent land, investigations revealed an intercepting ditch which flows into a culverted watercourse which is shown on Anglian Waters records. East Lindsey District Council has cleared the culvert and trash screen. LCC have also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. Ditches have been cleaned out and discussions are ongoing between Anglian Water and Witham 3rd Internal Drainage Board regarding ownership. A bid for an overall surface water study for Horncastle is being submitted by LCC.	Ditches cleaned out. Discussions ongoing between Anglian Water and Witham 3rd IDB regarding ownership Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16/17	LCC / AW

DUTY TO INVESTIGATE
SECTION 19 ON-GOING INVESTIGATIONS

Date	Location	Town	Division	Contact Officer	Description of Flooding	No of Properties internally Flooded	Risk Management Authorities with Responsibilities and whether they are exercising functions	Actions and Recommendations	Proposed Action/Works	Promoter
28-Jun-12	Bowl Alley Lane	Horncastle	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the adjacent school field and Bowl Alley Lane. The surface water collected at the lowest point causing flooding to the adjacent properties in Bowl Alley Lane.	3	Anglian Water - Yes LCC - Yes	Whilst the flooding was caused by extreme rainfall and overland flows, LCC have undertaken a CCTV survey of the underground surface water systems. This has revealed a number of condition concerns in relation to the system owned by Anglian Water. The report has been passed to Anglian Water in order that they consider future action and repairs. In addition, LCC is planning to install additional drainage protection features in front of the affected properties, and is in discussion with the school with respect to intercepting flows from the school car park. A bid for an overall surface water study for Horncastle is being submitted by LCC. Anglian Water are awaiting the new financial year to see if funding is available to resolve their issues.	Meeting with Anglian Water to be arranged Overall Horncastle scheme, Feasibility and Design 2014/15 Works 2015/16	LCC / AW
28-Jun-12	Main Road/Station Row	New Bollingbrooke	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Extreme rainfall (estimated to be a 1 in 40 year event) caused highway surface water flows to collect in the low area of Main Road/Station Row overwhelming the highway drainage system in the footway.	7	LCC - Yes	LCC has investigated the drainage and found blockages/damage due to buildings and tree roots. A solution to rectify the damage is being designed and costed.	System found to be damaged by buildings/trees and a new outfall is required. Solution being designed and costed	LCC
28-Jun-12	Horncastle Road adjacent old railway line	Roughton Moor	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Metalling works to the Spa Trail has affected the natural overland flow routes. This has caused surface water to be trapped on the south side of the trail, which has caused flooding to one property.	1	LCC - Yes	A temporary relief trench has been cut and boarded. LCC is designing a solution as the Spa Trail upgrade has affected the natural overland flow route.	TSP designing a solution as Spa Trail upgrade has cut off the natural flow path.	LCC
28-Jun-12	Sunningdale Close	Skegness	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Extreme rainfall caused highway surface water flows to bypass kerb gullies and collect in the low area of Sunningdale Close. Overland flows from the rear of the houses also contributed to the flooding.	4	LCC - Yes Anglian Water - Yes East Lindsey District Council - Yes	East Lindsey District Council have installed new gullies and connections which discharge into the Anglian Water surface water system (the capacity of which has been checked and found to be acceptable).	Capacity issues checked and found to be acceptable (ELDC installed new gullies £5k)	LCC
28-Jun-12	Ings Lane	Toynton St Peter	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Extreme rainfall caused overland flows to surcharge a number of watercourses in the area resulting in flooding to a low lying property in Ings Lane.	1	Witham 4th IDB - Yes LCC - Yes	It is recommended that a new watercourse be cut to the south to divert flows from Toynton St Peter away from the flooded property. Witham 4th Internal Drainage Board is considering a scheme. However, this is likely to be a low priority due to; the cost, legal issues and minimal benefits.	With Witham 4th IDB. Potential for a scheme to progress low. Expensive solution £100k, legal issues, minimal benefit) Investigation works programmed for 2016/17/18. Works proposed 2018/20	Witham 4th IDB
28-Jun-12	Albany Road	Woodhall Spa	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Heavy rainfall caused surcharging of the highway drainage system (which flows into Tattershall Road) causing backflow into Albany Road. This together with the flows collected from Albany Road were unable to enter the watercourse crossing Albany Road and the watercourse to the rear of Witham Road (due to a combination of blocked watercourses and partially blocked culvert crossing Albany Road).	5	Witham 3rd IDB - Yes LCC - Yes	Witham 3rd Internal Drainage Board has instructed a developer to clear the ditches; to the rear of Witham Road, and leading to the culvert crossing Albany Road. LCC has cleared the culvert from its outfall to Albany Road and are investigating the short section of culvert under Albany Road with a view to upsizing (feasibility and design in progress). In addition, LCC plan to install a new section of pipe work and gullies outside the affected properties to drain to the culvert. Residents have also cleared the ditch to the south of Albany Road.	Culvert being designed by TSP (Feasibility)	LCC
29-Jun-12	The Esplanade	Chapel St Leonards	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Surcharging from the highway drainage system due to blockages within the system, root ingress and possible concerns over the number of gullies.	2	LCC - Yes	LCC has investigated the highway drainage system and undertaken a CCTV survey which indicates blockages and root infestation. Gullies and connections have been jetted. Further work is planned to clear roots and blockages within the system, and install additional gullies. The improvement scheme is currently being designed and costed.	Scheme being designed and costed	LCC

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28-Jun-12	Fairfield Avenue	Chapel St Leonards	East	Dean Myhill Area Highways Manager East Division Northern Area	Surcharging of Anglian Water surface water system due to displaced pipe work, and possible concerns over capacity.	1	Anglian Water - Yes	Surcharging of Anglian Water surface water system due to displaced pipe work and possible concerns over capacity.	All works completed Nov 2013	AW
28-Jun-12	Main Road	Saltfleet	East	Dean Myhill Area Highways Manager East Division Northern Area	Soil and vegetable matter washing into the channel in front of the property causing blockage to the adjacent gully.	1	LCC - Yes	Soil and vegetable matter washing into the channel in front of the property and caused blockage to the adjacent gully.	All works completed Nov 2013	LCC
29-Jun-12	Pump Lane	Saltfleet	East	Dean Myhill Area Highways Manager East Division Northern Area	Overland and highway surface water flows entering low lying property due to collapsed and silted surface water drainage system.	1	East Lindsey District Council - Yes	Overland and highway surface water flows entering low lying property due to collapsed and silted surface water drainage system.	New gullies installed Nov 2013	LCC
28 Jun 12 6 Jul 12	Riverhead Terrace, Louth	Louth	East	Dean Myhill Area Highways Manager East Division Northern Area	During heavy rainfall (estimated to be a 1 in 60 year event) flooding took place in Riverhead Terrace due to overland flows from adjacent Riverhead development, and flows from the Terrace area being unable to escape.	9	East Lindsey District Council - Yes Anglian Water - Yes	Development has taken place to the east and north of Riverhead Terrace, which is partially complete. The new development is significantly higher than the Terrace, and has severed the natural drainage and flow routes from Riverhead Terrace, such that surface water from the Terrace and land to the north is trapped against the new development. The only means of surface water disposal from Riverhead Terrace is now via a combined gravity system with an assisted foul pumping station. The pumping station was installed, subsequent to development, at the east of Riverhead Terrace. It is unlikely that this foul pumping station will have the capacity to deal with surface water flows from Riverhead Terrace and its catchment area.	ELDC commissioned a study which has commenced and the report expected August. Further action dependant on findings.	ELDC
28-Jun-12	Station Road	Wainfleet	East	Andrew Ratcliffe Area Highways Manager East Division Southern Area	Internal flooding to four properties, during intense rainfall, due to inoperative highway drainage system. This was caused by damage from utility companies and the outfall/ditch not being maintained.	4	LCC - Yes	LCC should clean all gullies and restore the highway drainage system and ensure these are running efficiently to the River Steeping. Further monitoring should be carried out.	LCC have cleaned all gullies, restored the highway drainage system and ensured they are running efficiently to the river steeping - monitoring required	LCC
28-Jun-12	Sunningdale Drive	Skegness	East	Andrew Ratcliffe Area Highways Manager East Division Southern Area	Intense rainfall overwhelmed AWA surface water sewer system causing internal flooding to one property.	1	AWA - Yes	Investigations by AWA discovered three blockages/damage to the main surface water sewer on Sunningdale Drive, due to incursions from other utility companies.	Blockage/damage s have now been repaired by AWA and private drainage system cleared. AW have applied for funding to CCTV survey the remainder of the system	AWA
28-Jun-12	Station Road	Firsby	East	Andrew Ratcliffe Area Highways Manager East Division Southern Area	Following intense rainfall water from the B1195 Station Road passed over a covered Highway gully down the drive of and flooded a residential property	1	LCC - Yes	LCC have uncovered gully, resident advised to consider providing drainage to the front of their property, to increase protection. LCC to consider raising kerbs.	Defective gully uncovered - LCC to consider raising kerbs	LCC
28-Jun-12	Shop Lane	Goulceby	East	Dean Myhill Area Highways Manager East Division Northern Area	Overland flows from the adjacent hillside and agricultural land has been exacerbated by the overgrown/silted interceptor ditch, and the inlet to the culvert system being restricted by debris and silt. The combined flows caused flooding to a property opposite and lower than the restricted culvert/ditch system.	1	Lincolnshire County Council Yes	During and following the incident the ditch underwent some clearance work by the resident of the flooded property. Witham 3rd IDB to ensure regular effective maintenance to the Riparian ditch to the North of Shop Lane under the extended enforcement powers.	All works completed Nov 2013	Witham 3rd IDB, LCC

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28-Jun-12	Brick Yard Lane	Hundleby	East	Andrew Ratcliffe Area Highways Manager East Division Southern Area	Overland flows from agricultural Land surcharged culvert under Brick Yard Lane (reported 9th May 2013 by IDB) which is a private road	1	None	Its recommended that the 300mm dia culvert under Brickyard Lane be checked for condition and cleared by the private owner. Consideration may be given to installing alarger culvert - this would require concent from Witham 4 IDB. All unmaintained ditches should be cleared out.	Private ownership	Private
06-Jul-12	Croft Bank	Croft	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Overland and highway surface water flows entering property access due to low kerb threshold.	1	LCC - Yes	LCC has investigated and undertaken reshaping works to divert flows away from the property access.	LCC have investigated and undertaken reshaping works to divert flows away from property access.	LCC
06-Jul-12	Mumby Road	Huttoft	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Overland and highway surface water flows entering low lying property due to suspected lack of capacity in the surrounding highway drainage system.	1	LCC - Yes	LCC have investigated the drainage system and placed an order to raise kerbs and install new gullies. LCC is awaiting funding availability prior to carrying out the works.	Order placed for new gullies and raise kerb	LCC
06-Jul-12	High Street	Burgh Le Marsh	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Overland and highway surface water flows entering low lying property due to suspected lack of capacity and defects in the surrounding highway drainage system, despite previous kerbing works aimed to mitigate problem.	1	LCC - Yes	LCC have investigated the surface water system and identified damage caused by utility activity. LCC will enforce repair once utility has been identified. In addition, LCC have liaised with residents, issued an order to raise the kerbs, regrade the footway and install a new surface water sewer/highway drain with outfall into catchwater drain, in order to provide additional protection.	Raise kerbs and regrade footway	LCC
06-Jul-12	King Edward Road	Woodhall Spa	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Surface water entering property due to overland flows from the Highway (reported Feb 2013) no further details at this stage	1	LCC	Awaiting further details		
06-Jul-12	Roman Bank	Skegness	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Surface water entering property from highway (reported Oct 2012) no further details at this stage	2	LCC	Awaiting further details		
19-Jul-12	Lumley Avenue	Skegness	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Extreme rainfall caused both highway surface water and overland flows to funnel down the unadopted lane and collect in the low area behind the properties of Lumley Avenue.	2	LCC - Yes	LCC has installed two new gullies to cut off the discharge from the highway onto the private road. Owners of the private road will need to consider a drainage system within the unadopted lane.	New gullies installed. Private system still unresolved.	LCC
03-Aug-12	Coots Lane	Mumby	East	Dean Myhill Area Highways Manager East Division Northern Area	Following intense rainfall water flowed down Coots Lane entering a property which is situated at the lowest point. A combination of water from carriageway and driveway was believed to be cause.	TBC	LCC - Yes LMIDB - Yes	Drainage survey to be undertaken with a view to upgrading the existing highway surface water drainage system. LMIDB to contact Riparian land owner of the dyke to request it to be cleaned/maintained on a regular basis.	LCC to undertake drainage survey. LMIDB to request cleansing/maintenance of dyke	LCC LMIDB
17-Mar-13	Main Street	Bucknall	East	Andy Ratcliffe Area Highways Manager East Division Southern Area	Following intense rainfall. Overland flows from adjacent fields flowed through the rear garden of and entered the property.	1	LCC - Yes LMIDB - Yes	Historic ditch to the rear of the property appears to have been filled/removed. This has now been reinstated to a good standard. LMIDB to check works	LMIDB to check works	LCC LMIDB
30-Apr-12	St Catherines Grove	Lincoln	North	Jeanne Gibson Area Highways Manager North Division Lincoln City Area	Surface water backed up and surcharged into St Catherines grove due to flap valve sticking open.	2	Lincolnshire County Council - Yes Anglian Water - Yes Environment Agency - Yes	Anglian Water is to inspect the flap value at the outfall to the River Witham, and introduce a maintenance regime to ensure it closes when the river levels are high.	AW to Maintain flap valve	AW
28-Jun-12	Castle Hill	Caistor	North	Steve Wiles Area Highways Manager North Division North Area	Due to heavy rainfall the Anglian Water foul sewer system became overwhelmed due to infiltration of surface water and backed up into a property in Castle Hill.	1	Anglian Water - Yes	There is a non-return valve fitted to the property lateral which was ineffective. Anglian Water have repaired it and are to implement an improved maintenance regime.	AW to maintain non-return valve.	AW

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28-Jun-12	Maple Avenue, Riby Road and Pelham Crescent	Keelby	North	Steve Wiles Area Highways Manager North Division North Area	Flooding was caused by surcharging surface water sewers combined with overland flows.	4	LCC - Yes Anglian Water - Yes	Further detailed study required to the ownership, condition and capacity of the surface water sewer system with a view to providing a new pipe system to intercept flows from the A18 Barton Street to reduce flows entering the village and to upgrade the pipe between Riby Road and Caddle Beck. Further LCC investigation and design required. Scheme bid due to be submitted for feasibility and works.	Surface water drainage schemes under consideration. Further LCC investigation and design required. Feasibility 2014/15/16 Work 2016/17/18	LCC
28-Jun-12	Eastfield Road	Keelby		Steve Wiles Area Highways Manager North Division North Area	Surface water sewer overwhelmed due to its connection to a blocked riparian drain.	3	Anglian Water - Yes North East Lincs IDB - Yes LCC - Yes	North East Lincolnshire Internal Drainage Board to clear riparian drain. Anglian Water to investigate cross contamination of foul and surface water systems. LCC to investigate the provision of a new chamber on the culverted section of watercourse in order to facilitate further investigations. Riparian owners to be advised of their responsibilities.	No further action at this time	AW North East Lincs IDB LCC
28-Jun-12	Brigg Road	Moortown	North	Steve Wiles Area Highways Manager North Division North Area	Extreme rainfall (in the order of a 1 in 200 year event) caused the riparian ditches in front of properties on Brigg Road to overtop causing internal flooding.	1	Ancholme IDB - Yes	Riparian owners have been advised to clear the ditches in front of their properties. Ancholme Internal Drainage Board is to advise residents and promote investigation into the outfall of riparian watercourses into Nettleton Beck. Ancholme Internal Drainage Board requested to assess for enforcement action.	IDB requested to assess for enforcement action.	Ancholme IDB
28-Jun-12	Faldingworth Road	Spridlington	North	Steve Wiles Area Highways Manager North Division North Area	Extreme rainfall (in the order of a 1 in 200 year event) caused surcharging of the highway drainage system in the village and internal flooding.	1	LCC - Yes	Highway drainage system found to be in good order following the investigation. As the flooded property has a very low threshold Property Level resilience recommended.	No further action at this time	LCC
06-Jul-12	Beevor Street	Lincoln	North	Jeanne Gibson Area Highways Manager North Division Lincoln City Area	Internal flooding to an industrial property caused by blockage to private sewer	1	None	Advised company to investigate the blockage and connection of their private sewer. This has now been carried out and has been cleared through to its connection with the Anglian Water system in Beevor Street.	No further action at this time	Private
10-Jul-12	Laing Close	Bardney	North	Alan Brown Area Highways Manager North Division South Area	Surcharging from foul and surface water sewers due to blockages within the SWS and possible concerns over operation of foul sewer system due to possible downstream pump failure, excessive surface water connectivity to the foul sewer and the effectiveness of the overflow arrangements at the pumping station.	1	Anglian Water- Yes Witham 3rd IDB - Yes	LCC system checked and functioning effectively. Anglian Water has provided resilience measures at a property on Laing Road. Anglian Water to check and repair their systems and investigate the flow carried by the foul system and validate the capacity of the foul sewer, including the operational effectiveness of the foul pumping station and its emergency overflow arrangements. The installation of a flap valve to the surface water sewer outfall at the rear of Baltholomew Close should be investigated. Witham 3rd Internal Drainage Board to complete its study into the benefits of upgrading its culvert through the garden of a property on Abbey Road.	LCC system checked and ok, problems found with AW SWS and reported to AW taken mitigating action by erecting flood boards at the property.	AW, Witham 3rd IDB
01-Dec-13	High Street	Heighington	North	Alan Brown	Surface and Ground water flooding (from a private Well) groundwater entered the the lowest room in the property (the former dairy) following prolonged wet weather.	1	LCC, Private	The provision of a new overflow for the well will certainly allow for a significant discharge from the area. However it is difficult to confirm whether the arrangements installed will limit the rise in groundwater levels should similar weather conditions recur. The effectiveness of the completed installation be monitored by on-going liaison between LLFA and the owners.	Landowner to undertake works	Private

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06-Jul-12	Quadring Road	Donington	South	Andy Wharff Area Highways Manager South Division Boston	Following a period of heavy rainfall it is assumed that both footway and carriageway water entered the footway drainage system. The carriageway is significantly higher than the footway and properties on Quadring Road. There is also the possibility that the combined sewer was overwhelmed.	1	LCC - Yes Anglian Water - Yes	LCC investigations have identified that the Highway drainage does not outfall to the Anglian Water combined sewer. The highway drainage system was compromised some distance from the development. This has now been repaired and a new outfall provided to a nearby Highway Drain.	Further investigations identified that the Highway drainage did not outfall to the AW Combined sewer and was compromised some distance from the development. System now repaired and new outfall provided to a neighbouring Highway Drain.	LCC
06-Jul-12	High Street	Gosberton	South	Andy Wharff Area Highways Manager South Division Boston	Heavy rainfall caused the piped and open dykes within the village to overflow which caused internal flooding.	1	Welland and Deepings IDB- Yes LCC - Yes	LCC have checked the highway drainage system in the vicinity and found it to be clear. Maintenance to Highway drainage system and riparian ditches and piped drains undertaken.	Maintenance to Highway drainage system and riparian ditches and piped drains undertaken	LCC / IDB
01-Apr-12	Church Lane	Brandon	West	Mark Heaton Area Highways Manager West Division Grantham	Overland flow from adjacent land. Saturated ground leading to overland flow which may have been exacerbated due to the lack of maintenance of riparian watercourses. South Kesteven District Council has given advice, and a drainage alleviation showing a proposed filter drain to the side of the property to intercept overland flows and underground surface water, which has not been approved by LCC.	1	Lincolnshire County Council - Yes South Kesteven District Council - Yes Upper Witham IDB - Yes	Property owner to maintain his filter drain. LCC Highways to improve highway drainage to remove standing surface water. Risk Management Authorities to ascertain ownership of all watercourses and advise the owners to clear/maintain them periodically.	LCC to install and improve highway drainage system to reduce the risk of standing surface water.	LCC, SKDC, UWIDB
29-Apr 28-June 6-July	Warterloo Cottages A607	Belton	West	Rowan Smith Area Highways Manager West Division Sleaford	Surface water from public highway and adjacent private land flowing onto properties .	2	Lincolnshire County Council - Yes Upper Witham IDB - Yes Environment Agency - Yes South Kesteven District Council - Yes	Upper Witham Internal Drainage Board has carried out enforcement on riparian owner for watercourse improvements. LCC Highways is designing improvements to the drainage system.	New drainage system/dike renewal (seeking funding)	LCC
28-Jun-12	A607 Main Street	Carlton Scoop	West	Mark Heaton Area Highways Manager West Division Grantham	Surface water run-off from private land running onto highway then running from highway and entering front of cottage	1	LCC - Yes Upper Witham IDB - Yes	IDB undertaking enforcement, further LCC investigation to be carried out. System Jetted requires new Manhole order will not be placed until other issues have been resolved.	IDB undertaking enforcement. Further LCC investigation to be carried out.	LCC Upper Witham IDB
28-Jun-12	Bridge End Road	Grantham	West	Mark Heaton Area Highways Manager West Division Grantham	Highway surface water run-off entering front of property and exiting from the rear due to root obstructions in Anglian Water system	1	LCC - Yes Anglian Water - Yes	Anglian water have undertaken root clearance works.	AWA scheme completed	AWA
28-Jun-12	High Street North and South, Manor Street, Chapel Street and Chestnut Street	Ruskington	West	Rowan Smith Area Highways Manager West Division Sleaford	Overtopping of Ruskington Beck (main river) and surcharge of foul sewers and overtopping of riparian watercourse.	6	Environment Agency- Yes Anglian Water - Yes Witham 1st IDB (Enforcement) - Yes	The Environment Agency is to remodel Ruskington Beck (hydraulic) and carry out riparian enforcement. Anglian Water is investigating the foul water system and is considering an improvement scheme. A bid for an overall study for Ruskington has been submitted for feasibility, design and works.	Investigation ongoing LCC, AWA, EA Feasibility and Design 2015/16 Work 2016/17	LCC / AWA / EA
28 June 12 6 July 12	Avenue Road	Grantham	West	Mark Heaton Area Highways Manager West Division Grantham	Highway surface water run-off entering front of property. Highway SWS backed up due to capacity issues within Anglian Water system	1	LCC - Yes Anglian Water - Yes	Anglian Water scheme completed.	AWA scheme completed	AWA

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05-Jul-12	Casthorpe Road	Barrowby	West	Mark Heaton Area Highways Manager West Division Grantham	Highway surface water and surface water from private property flowing into garage and residential property.	1	LCC - Yes	Lincolnshire County Council are designing improvements to surface water drainage and advising residents on self protection	LCC are designing improvements to surface water drainage and advising residents on self protection	LCC
06-Jul-12	Boundary Button Hole Cottages	Allington	West	Mark Heaton Area Highways Manager West Division Grantham	Overtopping of Riparian ditches upstream of recently piped section of surface water run-off from fields and highway	2	LCC - Yes Upper Witham IDB - Yes	The Upper Witham IDB have undertaken enforcement and cleared the drain. LCC highways have issued an order to provide a new piped highway drainage system	LCC to provide new highway drainage system	LCC
06-Jul-12	High Street	Harlaxton	West	Mark Heaton Area Highways Manager West Division Grantham	Current drainage system insufficient capacity and backed up causing flooding to the carriageway and 2 properties	2	LCC - Yes Upper Witham IDB - Yes Anglian Water - Yes	Following detailed investigation a joint scheme between LCC and Upper Witham IDB has been completed. EA to investigate Mow Beck watercourse downstream.	LCC surface water scheme completed	LCC
06-Jul-12	Main Road	Long Bennington	West	Mark Heaton Area Highways Manager West Division Grantham	Groundwater flooding through the cellar .	1	LCC - Yes	Resident advised to tank cellar.	Advice provided	LCC
06-Jul-12	Tattershall Road	Billinghay	West	Rowan Smith Area Highways Manager West Division Sleaford	Blockage on a private gully which backed up and water entered a property through an external door.	1	LCC - Yes	System jetted and cleared. No evidence of cause of blockage. Now on 3 x per year cleansing and jetting highway drain to outfall.	No further action at this time	LCC
06-Jul-12	Cottages White Cross Lane / Asgardby Road	Burton Pedwardine	West	Rowan Smith Area Highways Manager West Division Sleaford	Surface water surcharge from private open watercourse to the east.	2	Black Sluice IDB - Yes	Black Sluice IDB to carry out enforcement. Resident met and awaiting proposals which may be subject to a highway contribution. Awaiting Confirmation.	Discussions still ongoing between LLFA, IDB and residents	LCC Black Sluice IDB
06-Jul-12	North Street	Digby	West	Rowan Smith Area Highways Manager West Division Sleaford	Overland flow from field into private properties, also blocked culvert/watercourse on school playing field.	8	LCC - Yes Witham 1st IDB - Yes	LCC, Witham First IDB and the Environment Agency are to undertake local maintenance and improvement works following consultation with the Parish Council. A bid for an overall study for Digby has been submitted for feasibility, design and works.	Localised Works 2013/14. Feasibility and Design works 2014/15. Works 2015/16/17	LCC
06-Jul-12	Beck Street	Digby	West	Rowan Smith Area Highways Manager West Division Sleaford	Overtopping of Digby Beck (main river) and capacity issues on the foul sewer	2	Environment Agency - Yes Anglian Water - Yes LCC - Yes			
06-Jul-12	The Hurn	Digby	West	Rowan Smith Area Highways Manager West Division Sleaford	Overtopping of IDB drain (Digby Beck North Branch) and riparian watercourse. Suspected failure of Anglian Water foul pumping station.	10	Witham 1st IDB - Yes Anglian Water - Yes			
06-Jul-12	Laburnham Cottage, South Drove	Helpringham	West	Rowan Smith Area Highways Manager West Division Sleaford	Combination of private and highway surface water which drained to property	1	LCC - Yes	LCC have installed a new gully and outfall to dyke on the opposite side of the road.	Works completed by LCC Highways	LCC
06-Jul-12	Leasingham village	Leasingham	West	Rowan Smith Area Highways Manager West Division Sleaford	Surface water and foul water flooding capacity issue on watercourse running through the village, also capacity/maintenance issue with pumped foul sewer.	2	Environment Agency - Yes Anglian Water - Yes LCC - Yes Witham 1st IDB (Enforcement for LLFA) - Yes	Further investigations to be carried out by LCC, and further discussions to be held with the other listed risk management authorities.	Investigations ongoing LCC AWA,	LCC / AWA
06-Jul-12	Main Street	Scopwick	West	Rowan Smith Area Highways Manager West Division Sleaford	Ditch backing up and overtopping due to volume of surface water in the main surface water pipe system.	1	Witham 1st IDB (Enforcement) - Yes Lincolnshire County Council Yes	LCC have jetted the system, further investigations into ownership of main piped drain and open ditch are ongoing. Two pipes under the road culvert were sufficient to cope with the expected flows and no alterations will be required. However, it was agreed that a camera survey would be appropriate to ensure flow was unrestricted, this was completed in Nov 2013. The drainage report clearly shows two intrusions of utility apparatus blocking the flow at two separate points by up to 40%. AWS & WPD are being chased in to getting them to repair the breakages and move their services out of the way. Historic information indicates that Blankney Estates have done very little drainage maintenance over many years. Overland water and ground water is being deposited / is flowing into the new development and the drainage on the site is at near capacity. There are concerns that water from this site will end up in the open dyke adjacent to the property that suffered flooding.	investigation ongoing regarding ownership.	LCC

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06-Jul-12	Southgate	Sleaford	West	Rowan Smith Area Highways Manager West Division Sleaford	Surface water from public highway and private land flowing into properties through front and rear entrances.	2	Lincolnshire County Council Yes Anglian Water - Yes	LCC to advise properties on self prevention measures relating to flood resilience. Anglian Water to investigate capacity of combined system.	LCC completed as promised but awaiting AWS investigation	LCC
06-Jul-12	Various	Timberland & Thorpe Tilney village	West	Rowan Smith Area Highways Manager West Division Sleaford	Surcharging of open watercourses and assumed restrictions within culverted sections. Surcharge of public surface and foul water systems.	3	Witham 1st IDB - Yes Lincolnshire County Council Yes Anglian Water - Yes	Improvement works on LCC watercourse undertaken November 2012. Ongoing LCC investigations, further excavations to commence to provide access for CCTV survey, also minor kerbing improvements and works issued. A meeting has been held with the Parish Council/Flood Group/National Flood Forum. A bid for an overall study for Timberland has been submitted for feasibility, design and works.	Ongoing LCC investigation further excavations to commence to provide access for CCTV survey. also minor kerbing improvements and works ongoing. Feasibility and Design 2016/17/18 Works 2018/19	LCC
06-Jul-12	High Street and The Drift	Walcot	West	Rowan Smith Area Highways Manager West Division Sleaford	Flooding of property caused by volume of water backing up in the surface water system. Further investigations revealed at least 6 properties off the drift which were internally flooded. This flooding was a combination of blockages in the surface water system and intensity of rainfall.	7	Lincolnshire County Council Yes Anglian Water - Yes	Anglian Water works in progress. LCC improvement scheme ongoing. A meeting with Walcott Parish Council has been held.	AWS works in progress. LCC scheme being redesigned by TSP Investigation and works 2014/15	LCC / AWS
06-Jul-12	Allington Road	Sedgebrooke	West	Mark Heaton Area Highways Manager West Division Grantham	Following an intense period of rain, highway surface water and watercourses overtopping flooding breaching property thresholds.	2	Environment Agency - Yes Upper witham IDB - Yes LCC - Yes Anglian Water - Yes	Environment Agency have cleared out the Beck, Upper Witham IDB have cleared the riparian ditch and are negotiating with Parish Council to maintain in future. Lincolnshire County Council to install new kerbing fronting properties affected (order placed). Anglian Water to undertake installation of non return flap valves.	LCC to install new kerbing	LCC EA UWIDB
06-Jul-12	West End / High Street	Swaton	West	Rowan Smith Area Highways Manager West Division Sleaford	Overland surface water flowing through private land. Separate case of overtopping of Swaton Eau flooding carriageway and property basement.	2	Environment Agency - Yes Black Sluice IDB - Yes Lincolnshire County Council Yes	The Environment Agency has completed their hydraulic modelling works. Black Sluice Internal Drainage Board has previously bid for an improvement scheme. LCC/Environment Agency have been asked to assist with scheme promotion.	EA completed modelling, discussion with LCC regarding possible escape route for residents. Also considering resilience measures for properties	LCC / EA
28-Jun-12	Thorald Avenue	Cranwell	West	Rowan Smith Area Highways Manager West Division Sleaford	Surface water surcharge from private parking area and Highway gullies onto private property causing internal flooding of conservatory. Possible contributing factors due to the development of adjacent land which was historically an area of flood plain. Non maintenance of riparian watercourse.	1	Witham 1st IDB - Yes Lincolnshire County Council Yes North Kesteven District Council - Yes	Investigations ongoing between LCC, North Kesteven District Council and Landowners. Small scheme to divert water away from garages being looked at. Landowner has been written to regarding possible cutting of new dyke.	Investigations ongoing LCC, NKDC, Landowners	LCC / NKDC / Landowners
21-Nov-12	Irnham road	Corby glen	West	Kevin Brumfield Area Highways Manager West Division Thurlby	Overland flow from adjacent farm land.	1	LCC,	S19 Report in progress CCTV investigation now done interference from third parties requires funding & resources.		

Date	Location	Town	Division	Contact Officer	Description of Flooding	No of Properties internally Flooded	Risk Management Authorities with Responsibilities and whether they are exercising functions	Actions and Recommendations	Proposed Action/Works	Promoter
26-Nov-12	The Grove	Hanthorpe	West	Kevin Brumfield Area Highways Manager West Division	Surcharge from dike/drains.	1	Lincolnshire County Council Yes South Kesteven District Council - Yes	LCC continue to discuss issues with residents. LCC arranged a 1 hour emergency response team to clear and investigate potential blockages and issue sandbags due to the period of heavy rainfall. The investigation identified there was a culverted driveway using a 600mm concrete pipe which has a foul sewer connection crossing through which is then connected onto two 150mm pipes, this connection is of a poor standard, further restrictions included tree roots which have been removed. There is a planning history with regard to the culverted vehicle crossing, which has not been constructed as the original planning permission. This is currently under investigation by South Kesteven District Council. All remedial work that has been carried out appears to have alleviated the problem to a certain extent. Further works planned include installation of a trash screen on the pond side to stop any large debris entering the watercourse.	Installation of a trash screen on the pond side of the culvert & further investigation by SKDC planning as to the culverted driveway	LCC/SKDC
06-Jul-13	Newton Village	Newton near Haceby	West	Rowan Smith Area Highways Manager West Division Sleaford	Overtopping of riparian dykes.	7	Black Sluice IDB - Yes Lincolnshire County Council Yes	LCC proposing to replace culvert on Church Road, and the Black Sluice Internal Drainage Board/LCC are to explain further riparian duties to residents. Details of additional enforcement requirements to the east of the village have been sent to the Black Sluice Internal Drainage Board.	Enforcement letters to be sent by June 2013. Design and Build 2014/15/16	LCC / Black Sluice IDB
23-Jul-13	York Road	Stamford	West	Mark Heaton Area Highways Manager West Division Grantham	Blocked gullies on Sussex Road causing water to back up in York Road resulting in internal flooding.	1	Lincolnshire County Council Yes South Kesteven District Council - Yes	Following the 1 hour emergency response, LCC investigated a potential blockage and emptied gullies. Initial investigation showed that the gully on the south side of York Road (near No 4) was blocked approximately 3m from the gully access. The jetter cleared the initial blockage, however jetting could only be undertaken for approximately 20m to an area under the conservatory at the rear of no. 2 York Road. Emergency road closure to install a new double gully and connect to existing surface water system on Sussex Road (approval sought and received from Anglian water).	Installation of a new double gully on York Road and connect to existing storm water system on Sussex Road.	LCC /AW
23-Jul-13	Oster Fen Lane	Claypole	West	Mark Heaton Area Highways Manager West Division Grantham	Due to heavy rainfall that fell on the 23rd/24th July 2013, a property suffered internal flooding. The owner reported that there was inadequate drainage along Oster Fen Lane and Main Street and the drainage that was there was not maintained. The road is covered in silt and the gullies were blocked with straw. The owner stated the road had previously flooded.	1	Lincolnshire County Council Yes South Kesteven District Council - Yes	LCC instructed a gully tanker to clean and jet the highway drainage system outside the property, the system was reported to be running well. Anglian Water CCTV'd the public sewer several weeks later, it identified tree roots to the extent that the survey had to be terminated. The removal of the tree roots has been undertaken and a further CCTV investigation is due to take place. Property owner is to investigate downpipes and gully at rear of property. SKDC to undertake regular carriageway sweeping in the village to reduce the amount of detritus to build up around the gullies.	Complete	LCC, AW, Private
05-Aug-13	Main Street	Long Bennington	West	Mark Heaton Area Highways Manager West Division Grantham	The rainfall event led to surface water from the Manor Drive estate flowing out of the junction to join the flow running along Main Road, which entered the property.	1	Lincolnshire County Council Yes STW - Yes	LCC jetted all highway surface water drainage in the area to ensure no blockages. Installation of kerbing and an extra highway drainage has been completed. Investigation into the foul drain has been carried out by Severn Trent Water and two blockages/breaks in the system have been repaired.	Complete	LCC STW
06-Aug-13	New Cross Roads	Stamford	West	Mark Heaton Area Highways Manager West Division Grantham	Standing water collected at the front of the property and caused internal flooding.	1	Lincolnshire County Council Yes Anglian Water - Yes	All highway drainage found to be running clear on New Cross Roads, however the kerb offset opposite the property was found to be blocked and required work to be carried out. On a site visit on 7th August a gully located on Sussex Road was also identified as being blocked with leaf matter & debris this was later cleared. Recommendations made include LCC to clear the blocked offset, Anglian Water to maintain their utility surface water drainage system, the property owner to maintain their rainwater outfall, and alterations to be made to the rainwater drainage of the properties here so rainfall is shared more evenly and not concentrated in one location.	No further action at this time	LCC, AW, Private

Date	Location	Town	Division	Contact Officer	Description of Flooding	No of Properties internally Flooded	Risk Management Authorities with Responsibilities and whether they are exercising functions	Actions and Recommendations	Proposed Action/Works	Promoter
06-Jul-13	Thorn Cottage	Aswarby	West	Mark Heaton Area Highways Manager West Division Grantham	Water breached the banks of the South Beck and flooded adjacent agricultural land and the garden Thorn Cottage . Flood water surrounded the property and outbuildings Lincolnshire Fire & Rescue evacuated the occupants and pets due to the flow of water demolishing the deck of the access bridge. Flood water entered the property through the lounge floor before breaching the front & rear door thresholds Due to the property being served by Septic tanks, flood water overwhelmed these systems and contaminated the water which again consequently entered the property.	1	Lincolnshire County Council - Yes Black Sluice IDB - Yes Environment Agency - Yes	Flooding at this location can be attributed to the lack of maintenance to South Beck which fronts the property. Environment Agency to undertake major weed control maintenance throughout the length of South Beck west and east of Thorn Cottage to increase capacity for flow. Environment Agency to review their existing maintenance regime of the South Beck to ensure flows can be accommodated through its length to South Forty Foot drain. Black Sluice to undertake enforcement of obstructions and maintenance on the riparian watercourses to the west of Thorn Cottage which is within their board area.	Regular maintenance of Main rivers & Riparian Watercourses	LCC, Black Sluice IDB, EA
20-Oct-13	Kings School, Brook Street	Grantham	West	Mark Heaton Area Highways Manager West Division Grantham	Surface water flooding on carriageway caused water entered the classroom and cellar.	1	LCC	LCC have cleaned and jetted out the carriageway gully. Further investigations to be carried out including a CCTV investigation and observations to ensure the drainage system is running adequately in the area.	LCC have cleaned and jetted out the carriageway gully. Further investigations to be carried out including a CCTV investigation and observations to ensure the drainage system is running adequately in the area.	LCC

Policy and Scrutiny

Open Report on behalf of Richard Wills, Director responsible for Democratic Services

Report to:	Flood and Drainage Management Scrutiny Committee
Date:	1 May 2014
Subject:	Flood and Drainage Management Scrutiny Committee Work Programme

Summary:

This report enables the Flood and Drainage Management Scrutiny Committee to consider its Work Programme for the coming year.

Actions Required:

To consider and comment on the work programme as set out in Appendix A to this report.

1. Background

At every meeting of the Committee, Members will be invited to consider their future Work Programme and to agree on items to be included.

Work Programme Definitions

Set out below are the definitions used to describe the types of scrutiny, relating to the items on the Work Programme:

Performance Scrutiny - The Committee is scrutinising periodic performance, issue specific performance or external inspection reports.

Policy Development - The Committee is involved in the development of policy, usually at an early stage, where a range of options are being considered.

Consultation - The Committee is responding to (or making arrangements to) respond to a consultation, either formally or informally. This includes pre-consultation engagement.

Status Report - The Committee is considering a topic for the first time where a specific issue has been raised or members wish to gain a greater understanding.

Update Report - The Committee is scrutinising an item following earlier consideration.

Scrutiny Review Activity - This includes discussion on possible scrutiny review items; finalising the scoping for the review; monitoring or interim reports; approval of the final report; and the response to the report.

2. Conclusion

To consider and comment on the Work Programme.

3. Consultation

a) Policy Proofing Actions Required

Not applicable.

4. Appendices

These are listed below and attached at the back of the report	
Appendix A	Flood and Drainage Management Scrutiny Committee Work Programme

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 Louise Tyers, who can be contacted on 01522 552102 or louise.tyers@lincolnshire.gov.uk.

Flood and Drainage Management Scrutiny Committee

Chairman: Councillor Lewis Strange

Vice Chairman: Councillor Victoria Ayling

Friday 18 July 2014 10.00am		
Extraordinary Flood and Drainage Management Scrutiny Committee		
Item	Contributor	Purpose
Reports into the Coastal Surge Flood Event in December 2013	Mark Welsh, Flood and Water and Major Developments Manager David Powell, Head of Emergency Planning Environment Agency	Update Report
Pilot of Joint Assessment of Flood Risk	David Hickman, Strategic Partnership Manager	Status Report
Investigations held under Section 19 of the Flood and Water Management Act 2010	Mark Welsh, Flood and Water and Major Developments Manager	Update Report
Partnership Funding Outcomes	David Hickman, Strategic Partnership Manager	Status Report

Friday 5 September 2014 10.00am		
Item	Contributor	Purpose
Investigations held under Section 19 of the Flood and Water Management Act 2010	Mark Welsh, Flood and Water and Major Developments Manager	Update Report
Partnership Funding and the Constraints Anglian Water work under as a regulated industry	Jonathan Glerum Flood Risk Manager, Anglian Water	Status Report
Partnership Working – who is best placed to do works and who oversees co-operation	David Hickman, Strategic Partnership Manager	Status Report
Flood Risk Management Plan	David Hickman, Strategic Partnership Manager	Update Report
Capital Programme and Common Works	Mark Welsh, Flood and Water and Major Developments Manager	Status Report

Thursday 4 December 2014 10.00am		
Item	Contributor	Purpose
Investigations held under Section 19 of the Flood and Water Management Act 2010	Mark Welsh, Flood and Water and Major Developments Manager	Update Report

To be scheduled:

- Flood Insurance Scheme Proposals
- Revised LRF Recovery Plan
- SUDS Update
- Donna Nook

For more information about the work of this Committee please contact Louise Tyers, Scrutiny Officer on 01522 552102 or by e-mail at louise.tyers@lincolnshire.gov.uk

Agenda Item 9

Flood and Drainage Management Scrutiny Committee – 1 May 2014 Propose Itinerary for the Site Visit

	Duration	Details	Location
12:30	45mins	Refreshments and buffet lunch. Exhibition about Boston Barrier and 5 December 2013 floods	Boston Borough Council
13:15	45mins	Bus to proposed site of Boston Barrier, explanation how it will work and progress update – opportunity for questions	Proposed barrier site
14:00	45mins	Travel by bus to Wormgate and Church Street to see the line of the flood water on the rear of Boston Stump. Opportunity to see repairs at Jakeman's Yard and ask questions about recovery.	Wormgate / Church Street
14:45	60 mins	Travel by bus to see impact of inland tidal surge on agricultural land.	Robert Caudwell's farm
15:45		Close	

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