

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations - Network North Area E - Contact Officer - Jeanne Gibson- Area Highways Manager | | | | | | Identified Actions/Works | | | | |
|---|--|---|---|---------------------------------------|--|--------------------------|----------|----------|---|---------------------------|
| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 14/08/2015 | Lincoln Lexington House Newark Road | Enquiry type : Internal Flooding Location : Lexington House, Access Road to Lexington House (ref 93U900/10), Newark Road, Lincoln Other info : A crew from Lincoln South Fire Station was called to the flats on Newark Road in the city at about 1.45am 14/8/15. A light pump and strainer was used to pump the flood water from the four flats. A Section 19 investigation required into the cause of the flooding by LCC. 4 properties | LCC - Yes | Under initial investigation by Area E | NO | Awaiting Report | LCC | On-going | Summer 2016 | S19-134 |
| 23/12/2015 | Lincoln The Park | Drainage overwhelmed by surface water, which continued to flow through the business' wall and cause internal damage to carpets in rear room. The cause of flooding is inconclusive as to the location of the internal flooding 1 property | LCC-Yes | Under initial investigation by Area E | NO | Awaiting Report | LCC | On-going | Summer 2016 | S19-149 |
| 23/12/2015 | Lincoln Lindum Avenue | Surface water is running down the hill outside the property filling the gullies. The water is then rising up through the floorboards in the kitchen located in the basement 1 property | LCC-Yes | Under initial investigation by Area E | NO | Awaiting Report | LCC | On-going | Summer 2016 | S19-150 |

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| Lincolnshire County Council Section 19 Investigations - Network Area North Area F - Contact Officer - Steve Wiles - Area Highways Manager | | | | | | Identified Actions/Works | | | | |
|---|--|---|---|---|--|--|-----------------------------|----------|---|---------------------------|
| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 28/06/2012 | Keelby Maple Avenue, Riby Road and Pelham Crescent | Flooding was caused by surcharging surface water sewers combined with overland flows. 4 Properties | LCC - Yes WLDC - Yes Severn Trent Water - Yes | Further detailed study required into 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 submitted for feasibility and works. | Yes (may also require Anglian Water investment) | Surface water drainage scheme under consideration. Further LCC investigation and design required. Feasibility 2015/16 Work 2016/17 | LCC AW | On-going | Investigation & Feasibility 2015/16 Possible works 2016/17 | S19-032 |
| 09/06/2014 | Gainsborough Marshalls Yard, Elsham Walk, Tower Street, Hill Crescent, Limber Close, Trinity Street, Silver Street, Caldicott Drive, Darwin Street, Rectory Avenue, Spring Gardens, Priory Close, Long Wood Road | Over a period of 60 minutes during the afternoon 43.4mm of rain fell in Gainsborough, of which 35.6mm fell in 30 minutes (a return period of 227 years). The surface water drains and combined sewer systems were unable to cope with the intense rainfall, the various systems consequently surcharging and the resulting surface water runoff entering properties. In all around 50 properties were flooded internally. 50 Properties | LCC - Yes WLDC - Yes Severn Trent Water - Yes | <ol style="list-style-type: none"> 1. That all RMA's inspect their respective infrastructure and take any necessary steps to ensure it is working as well as possible. 2. Advice be made available to victims of flooding with regard to resistance measures which might be appropriate, for example air brick covers and flood gates. 3. LCC consider improvements to the highway surface water drainage where this will offer resistance to flooding from surface runoff. 4. That the LLFA investigate the feasibility of overland flood routes to manage the risk of flooding from surface water | Yes | Further investigations required by all RMA's. Liaison with Severn Trent Water in hand. Further investigations with regard to flood risk management measures subject to meeting the requirements of Defra Flood Defence Grant in Aid. | LCC Severn Trent WLDC | On-going | Investigation & feasibility 2017/18. Possible works 2018/19. | S19-115 |

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| Lincolnshire County Council Section 19 Investigations - Network Area North Area G - Contact Officer - Kyra Nettle - Acting Area Highways Manager | | | | | | Identified Actions/Works | | | | |
|--|--|---|---|--|--|---|----------|----------|---|---------------------------|
| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales of Scheme Completion | S19 Report File Reference |
| 14/08/2015 | Potterhanworth Under Railway Bridge, Station Road | Carriageway flooding - 02:23 Hrs - Polcie incident 39 14/08/15 - Deep flood undier rail bridge on station road Potterhanworth.. Car stuck and freed by FB. 02:26 Hrs - Kier North ER to attend and close road at bridge. 03:33 Hrs ER team on site very bad and needs closing. 03:54 Hrs - Road closed and traffic diverted via Heighnton. cway flooding | LCC - Yes | Increase frequency of routine cleansing Ad-hoc cleansing of outfall with high power jet-vac Cut grips into the verge at regular intervals east and west of the bridge to reduce the quantity of highway surface water reaching the drainage system | NO | Increase frequency of routine cleansing Ad-hoc cleansing of outfall with high power jet-vac Cut grips into the verge at regular intervals east and west of the bridge to reduce the quantity of highway surface water reaching the drainage system. Works programmed End Feb 2016 A Jet to attend site | LCC | On-going | Summer 2016 | S19-131 |
| 13/08/2015 | North Hykeham 544b Newark Road | Standing water collects in the carriageway channel at a low point between kerb offlets, flows over a dropped kerb and footway and down the access to 544b Newark Road. 1 property | LCC-Yes | The length of dropped kerbs are no longer required and should be replaced with full face kerbs to provide a barrier to water ingress. Further work should follow on to address the standing water on the carriageway. | NO | The length of dropped kerbs are no longer required and should be replaced with full face kerbs to provide a barrier to water ingress. Further work should follow on to address the standing water on the carriageway. Site work programmed to start w/c 8/02/2016 | LCC | On-going | Spring 2016 | S19-130 |

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| Lincolnshire County Council Section 19 Investigations - Network North Area H - Contact Officer - Dean Myhill - Area Highways Manager | | | | | | Identified Actions/Works | | | | |
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| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 29/06/2012 | Chapel St Leonards The Esplanade | Surcharging from the highway drainage system due to blockages within the system, root ingress and possible concerns over the number of gullies. 2 Properties | 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 improvements are currently being designed and costed. | No | Work being designed and costed | LCC | On-going | Design 2014/15 | S19-012 |
| 28/06/2012 | Louth Riverhead Terrace, Louth | 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. 3 Properties | 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. The new development is to be drained by Anglian Water foul and surface water sewer systems and also involves the culverting of a watercourse which previously drained the land to the north and east of the Terrace. Due to the elevation of the new development the | No | ELDC commissioned a hydrological study in April 2013 which is now complete. The report makes a number of recommendations - the most significant being to install a much larger AW pumping station. AW to make a scheme submission as part of their Price Review 14 process. Works have commenced (Aug 2014) into the upgrade of the sewer system. Work to be carried out in two phases, first being Ramsgate Road Area and then Phase two to include improvements to the Riverhead Area. All works to be completed by the end April 2015. | AW ELDC | On-going | Completion due Summer 2015 | S19-016 |
| 09/06/2014 | Salfleet Pump Lane | Extreme rainfall estimated at a 1 in 60 year event caused significant overland and surface water flow to enter this low lying property due to capacity issues of existing surface water drainage system. Lack of effective drainage within the property boundary is also a contributing factor. The same property also experienced similar internal / external flooding on 28th June 2012. Report Ref S19-015 1 Property | LCC - Yes | In 2012 ELDC installed a new manhole and cleansed and jetted the existing system. However, the property flooded again in 2014. Following this latest investigation, LCC Highways will carry out works outside the property which includes the installation of additional drainage apparatus (gullies & pipes) into the existing system. LCC Highways will also look into reconstructing the vehicular access with an increased kerb upstand. | No | LCC Highways to undertake drainage improvement work and carry out improvements to the vehicular access of the property. | LCC | On-going | Summer 2015 | S19-087 |
| 09/06/2014 | Salfleet Main Road | Extreme rainfall (1 in 60 year event) meant the highway drains were unable to cope with the amount of surface water on the carriageway and overland flow from the surrounding land. 1 Property | LCC - Yes | Following the investigation into the flooding several factors were identified: Level of property which is situated 1.3m below carriageway surface; surface water system capacity issues were also identified due to the extreme rainfall event; and surface water and overland flows from adjacent land. The recommendations identified the need for replacement of a 48m section of pipe to remove a bottle neck within the system. Additional works to possibly re-line sections of the pipe, repair damaged sections and root cutting works are to be programmed for 2015. | No | Root cutting ,possible re-lining the pipe and replacement of section of pipe. | LCC | On-going | Summer 2015 | S19-094 |
| 09/06/2014 | Manby Chapel Lane Provost Road / Carlton Road | Following the two periods of extreme rainfall that fell during Monday 9th and Tuesday 24th June, the surface water highway drains were unable to cope with up to 31mm of rain falling in 1 hour. Majority of the surface water was initially discharged from ELDC carpark and adjacent playground onto the carriageway. Lincolnshire Fire & Rescue attended the scene to pump out excessive surface water. 3 Properties | LCC - Yes | ELDC arranged to cleanse and jet the existing system and carry out a full investigation. The report identifies that the current system requires a major upgrade including the installation of new pipes and gullies. ELDC is installing a holding tank within its property to control the discharge of surface water onto the highway. | No | Work to upgrade the existing drainage system has been completed; the installation of the holding tank is due to be carried out very soon by ELDC. | ELDC | On-going | Dec-14 | S19-095 |

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| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 08/08/2014 | Louth High Holme Road | Extreme rainfall caused significant overland flow and highway surface water to enter low lying properties; this was due to capacity issues of the existing surface water drainage system. Residents in the properties were evacuated to temporary accommodation due to internal flooding. 1 Property | LCC - Yes | LCC to issue a small footway drainage improvement scheme to help alleviate problems in the area although this will not resolve the problems during extreme rainfall, but may offer assistance during heavy / average rainfall. | No | LCC Highways to undertake a small footway/drainage scheme and carry out further investigations regarding drainage capacity issues. | LCC | On-going | Spring 2015 | S19-088 |
| 08/08/2014 | Louth Sandringham Drive | Extreme rainfall in the Louth area, caused a property to flood internally. The property is located at a low point and surface water from the highway entered the garage and flooded the living room and conservatory. The surface water gully located in the carriageway outside the vehicle access may have been blocked or the amount of surface water may have overwhelmed the drainage system causing the internal flooding to the property. 1 Property | LCC - Yes | Due to the intensity of the rain cleaning and jetting the system won't completely resolve the issue. Assuming the drainage system is kept in good working order the most likely solution to ease the problem of flooding will be to increase the upstand of the dropped kerbs to +25mm. This will be carried out as a small highway maintenance scheme. | TBC | Minor works to increase the upstand of the dropped kerbs will be carried out in due course | LCC | On-going | Summer 2016 | S19-126 |
| 08/08/2014 | Louth Westgate | Extreme rainfall in the Louth area, caused 2 properties to flood internally. The properties are at a particular low topographical point of the town and subject to overland and highway surface water to flow from the higher land in the south. 2 Properties | LCC - Yes | Due to capacity issues the gully cleansing and jetting is unlikely to resolve the problem during extreme rainfall, as the quantity of surface water would overwhelm any standard drainage system. However this will hopefully ease the extent of flooding and be effective during heavy / average rainfall. LCC Highways to arrange for a CCTV drainage investigation to be carried out. Depending upon the results may arrange for a scheme to be carried out to upgrade the existing system or create additional facilities. Once a solution is identified and costed, funding / contribution may be applied for through the LLFA. A flood alleviation scheme is planned for the River Lud at Riverhead in Louth. | No | CCTV drainage investigation to be carried out in due course. | LCC | On-going | 2016 TBC | S19-124 |
| 10/08/2014 | Chapel St. Leonards South Road | Highway surface water entered the property through the vehicular access and flooded the driveway and then entered the living area of the dwelling. 1 Property | LCC - Yes | Due to capacity issues the gully cleansing and jetting is unlikely to resolve the problem during extreme rainfall, as the quantity of surface water would overwhelm any standard drainage system. However this will hopefully ease the extent of flooding and be effective during heavy / average rainfall, together with the solutions installed by the residents. LCC Highways to arrange a CCTV drainage survey to identify any blockages or defects within the system. Assuming the drainage system is in good working order, the most likely solution to ease the problems of flooding will be to increase the upstand of the dropped kerb to +25mm and install an additional gully at the lowest point (determined by level survey), and connect to the existing surface water drainage system. This will be carried out as a small highways maintenance scheme. | NO | CCTV drainage investigation to be carried out in due course. Along with the installation of an additional gully and increasing the upstand of the vehicular access to +25mm. | LCC | On-going | 2016 TBC | S19-125 |
| 25/12/2015 | Louth Eastfield Road | Property flooded twice of the xmas period due to surface water running down the highway | LCC - Yes | Internal flooding confirmed by DM Investigation & Report ongoing | TBC | Awaiting Report | LCC | On-going | TBC | S19-151 |

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| Lincolnshire County Council Section 19 Investigations Network North Area J- Contact Officer - Andrew Ratcliffe - Area Highways Manager | | | | | | Identified Actions/Works | | | | |
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| Date of Incident | Town & Location | Description of Flooding | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 28/06/2012 | Horncastle East Street and Stanhope Road 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 Properties | LCC - Yes | LCC has 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 has 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. | Yes | A bid for an overall surface water study for Horncastle has been submitted with feasibility and design programmed for 2014/15 if approved; works to be programmed 2015/16/17. | LCC AW | On-going | 2014 & 2015 - 2017 | S19-001 |
| 28/06/2012 | Horncastle West Street | Extreme rainfall (estimated to be a 1 in 50 year event) caused significant overland flows from the 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 Properties | LCC - Yes Anglian Water - Yes | LCC has undertaken a check of the highway drainage system in West Street and has cleaned out a number of gullies and removed the blockages. LCC has 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. | Yes | Blockages removed and gas main relocated. A bid for an overall surface water study for Horncastle has been submitted with feasibility and design programmed for 2014/15 if approved; works to be programmed 2015/16/17. | LCC | On-going | 2014 & 2015 - 2017 | S19-002 |
| 28/06/2012 | Horncastle South Street and Bull Ring | 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 Properties | Anglian Water - Yes LCC - Yes | Whilst the flooding was caused by extreme rainfall and overland flows, LCC has 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 has in addition carried out repairs to gullies and connections in South Street. LCC has 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 flood risk. | Yes | LCC gullies and system checked and repaired. Anglian Water checking surface water systems and may consider improvement works in future asset management plans. Feasibility and design programmed for 2014/15 and if approved; works to progress in 2015/16/17. | LCC | On-going | 2014 & 2015 - 2017 | S19-003 |
| 28/06/2012 | Horncastle Mark Avenue, Accommodation Road and Prospect Street | 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 Properties | 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 has also undertaken initial modelling work to help understand and assess surface water flood risk in Horncastle. Ditches 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. | Yes | Ditches cleaned out. Discussions ongoing between Anglian Water and Witham 3rd IDB regarding ownership. A bid for an overall surface water study for Horncastle has been submitted with feasibility and design programmed for 2014/15 if approved, works to be programmed 2015/16/17. | LCC AW Witham 3rd IDB | On-going | 2014 & 2015 - 2017 | S19-005 |
| 28/06/2012 | Horncastle Bowl Alley Lane | 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 Properties | Anglian Water - Yes LCC - Yes | Whilst the flooding was caused by extreme rainfall and overland flows, LCC has undertaken a CCTV survey of the underground surface water systems in the area. 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 and future discussions will be undertaken in order that it considers 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. | Yes | Partnership scheme developed between LCC Highways, Education, AW and initial work delivered. A bid for an overall surface water study for Horncastle has been submitted with feasibility and design programmed for 2014/15 if approved; works to be programmed 2015/16/17. | LCC AW | On-going | 2014 & 2015 - 2017 | S19-006 |

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| Date of Incident | Town & Location | Description of Flooding | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 28/06/2012 | New Bollingbrooke Main Road/Station Row | 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 Properties | 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. | No | Dropped kerbs outside the post office replaced with full height kerbs. Drainage system found to be damaged by buildings/trees and a new outfall is required. Solution being designed and costed. | LCC | On-going | 2014 - 2016 | S19-007 |
| 28/06/2012 | Toynton St Peter Ings Lane | 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 Property | 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. | Yes | Witham 4th IDB considering a capital scheme submission with possible upgrading/realigning of drains in the area. Investigation works programmed for 2016/17/18. Possible works 2018/20. | Witham 4th IDB | On-going | Investigation 2016/17/18 Possible works 2018/19/20 | S19-010 |
| 28/06/2012 | Wainfleet Station Road | 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 Properties | 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. | No | LCC have cleaned all gullies, restored the highway drainage system and ensured they are running efficiently to the River Steeping - further monitoring to be carried out | LCC | On-going | Spring 2015 | S19-017 |
| 28/06/2012 | Skegness Sunningdale Drive | Intense rainfall overwhelmed AW surface water sewer system causing internal flooding to one property. 1 Property | Anglian Water - Yes | Investigations by AW discovered three blockages/damage to the main surface water sewer on Sunningdale Drive, due to incursions from other utility companies. | No | Blockage/damages have now been addressed by AW and the private drainage system cleared. AW has applied for funding to CCTV survey the remainder of the system. | AW | On-going | Spring 2015 | S19-018 |
| 06/07/2012 | Burgh Le Marsh High Street | 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 Property | 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. | No | Works to raise kerbs and regrade footway in hand. New surface water sewer/drain in carriageway with outfall to Catchwater Drain is budget dependent. Initial discussions with LMIDB have been undertaken to investigate routing and outfall locations. | LCC LMIDB | On-going | 2014/15 | S19-024 |
| 09/06/2014 | Hagworthingham Sausthorpe Road | Following torrential rainfall, drains were unable to expell the surface water causing it to flow onto the driveway and enter the property owners conservatory. 1 Property | LCC - Yes | LCC Highways has cleansed and jetted the existing drainage system. The report into the drainage investigation is still outstanding and CCTV investigation of the drainage system will be carried out if required. | No | Drainage system has been jetted and cleansed awaiting report. If required a CCTV investigation will be carried out to identify any problems within the system. | LCC | On-going | Summer 2015 | S19-092 |
| 09/06/2014 | Bucknall Platts Lane | Extreme rainfall caused significant surface water to flow along the highway. The highway drains were unable to cope, allowing water to flow over the kerbed accesses to the properties, causing internal flooding. 2 Property | LCC - Yes | LCC to clean and jet the whole system through to the outfall to ensure the system is running free. Minor highway maintenance is required to remove a pedestrian dropped kerb access to mitigate flooding to one of the properties. Further highway work to be programmed to remove an area in front of the kerb, this will increase the kerb face and direct water away from the second property. Further drainage investigations may be required. Install additional gullies up stream of the affected properties. | No | Following the cleansing and jetting of the entire system highway maintenance work and further drainage investigations will be funded during 2015. | LCC | On-going | Summer 2015 | S19-093 |
| 24/06/2014 | Horncastle Langton Hill | Extreme rainfall estimated at being a 1 in 30 to 1 in 100 year event resulted in significant overland flows from the surrounding land. The combined surface water and overland surface water flow overwhelmed the highway sewer system on Langton Hill and West Street and caused flooding at the bottom of the hill which affected one property. 1 Property | LCC - Yes | Following a similar event in 2012, works were undertaken by AW and LCC Highways to rectify defects to the surface water systems along Langton Hill and West Street. However, defects to one section of the highway drainage system are yet to be completed. There appears to be issues with the capacity of the system in the area. LCC recommend the completion of the initial project identified in 2012 along with profiling the footway and lifting the kerb face to divert surface water away from the property, this is currently underway. There is also a ditch at the higher end of Langton Hill which requires cleaning out and Witham 3rd IDB require action by the riparian land owners. | No | Reprofiling of the footway is currently underway along with the completion of outstanding works; all due to be completed by the end of March 2015. The cleaning out of the ditch is yet to be undertaken by the riparian owner. | LCC Witham 3rd IDB AW | On-going | Completeion due Spring 2015 | S19-096 |
| 09/06/2014 | Skegness North Parade | Intense summer rainfall caused internal flooding to the hotel. Surface water entered the building via the ladies toilets. 1 Property | LCC - Yes Anglian Water - Yes | AW to investigate the capacity of the surface water system. The property owners should investigate whether they have sufficient drainage within their land to accommodate the normal flows expected. | No | Further investigations to be carried out by AW and recommendations advised to property owners. | LCC AW | On-going | Spring 2015 | S19-101 |

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| 24/06/2014 | Skegness Sunningdale Close | Following torrential rain, the highway drains were unable to cope with the amount of surface water on the carriageway. The flood water entered the property. 1 Property | LCC - Yes Anglian Water - Yes | AW to investigate the capacity of the surface water system. The property owners should consider installing cut off drains to collect water before it enters the property and ensure discharge to an appropriate location, or consider other property level protection measures. | No | Further investigations to be carried out by AW and recommendations advised to property owners. | LCC AW | On-going | Spring 2015 | S19-098 |
| 24/06/2014 | Skegness Sunningdale Drive | Following torrential rain, the highway drains were unable to cope with the amount of surface water on the carriageway. The flood water entered the property, whilst the owners were away on holiday. 1 Property | LCC - Yes | Following investigations carried out by AW in 2012, third party obstructions were identified at several locations within the system. Three of these were resolved in 2013 and a further drainage survey was carried out. AW to carry out further investigations. | No | Further investigations to be carried out by AW and recommendations advised to property owners. | LCC AW | On-going | Spring 2015 | S19-099 |
| 24/06/2014 | Skegness Theatre, Grand Parade | Following torrential rain, the highway drains were unable to cope with the amount of surface water on the carriageway and a property was flooded. 1 Property | LCC - Yes | AW to investigate the capacity of the surface water system. ELDC should consider investigating whether it has sufficient drainage within its land to accommodate the normal flows expected. | No | Further investigations to be carried out by AW & ELDC | LCC AW ELDC | On-going | Spring 2015 | S19-100 |
| 27/06/2014 | Skegness Junior School Academy Pelham Road | During torrential rain, school corridors were overwhelmed with flood water from the 3 internal downpipes located within the schools corridor. Due to the back up of silt and debris located in the main drain on Pelham Road, excess water from the downpipes overflowed into the Year 5 corridor causing internal flooding. 1 Property | LCC - Yes | AW should investigate the surface water system for possible restrictions to flow. Further investigations regarding the outfall of the system need to be undertaken in due course. | No | Further investigations to be carried out by AW | LCC AW | On-going | Summer 2015 | S19-102 |
| 08/08/2014 | Friskney Fold Hill / Low Road | Intense rainfall that fell over a short period of time and flowed over agricultural land causing internal flooding to one property. 1 Property | LCC - Yes Witham 4th IDB - Yes ELDC - Yes | All drainage systems should be cleaned out and long term maintenance strategy considered by the owners of the assets. | No | Witham 4th IDB have agreed to clean out and adopt a short section of ditch downstream of the culverted system. ELDC and LCC are contributing to an investigation and a one off clean of the riparian system. | LCC ELDC Witham 4th IDB | On-going | Summer 2015 | S19-117 |
| 08/08/2014 | Wainfleet All Saints Bethlem Crescent | Intense rainfall that fell over a short period of time caused internal flooding to one property. 2 Property | LCC - Yes Anglian Water - Yes | AW should consider investigating the surface water drainage system within the local area to determine if there is sufficient capacity to drain the local area to 1 in 30 year standard | No | Further investigations to be carried out by AW | LCC AW | On-going | Summer 2015 | S19-118 |
| 08/08/2014 | Horncastle Stanhope Road | Extreme rainfall caused significant highway flows to collect at the low area of Stanhope Road; overwhelming both the Anglian Water Surface Water Sewers and the highway drainage system. 1 Property | LCC - Yes Anglian Water - Yes | Following the flooding in 2012 LCC have carried out a CCTV survey of the highway drainage system which identified some minor defects and obstructions AW will be undertaking a CCTV survey of their system. LCC have undertaken modelling work to help understand and assess surface water flood risk in Horncastle. There is also a flood alleviation scheme planned for Horncastle and the River Bain. The defects and obstructions will need to be addressed and consideration for additional gullies and connections. | Yes | A meeting has been planned with AW to discuss the findings of both the CCTV surveys, consider the work required and to ensure a collaborative resolution. | LCC AW | On-going | End 2015 TBC | S19-120 |
| 08/08/2014 | Wainfleet All Saints High Street | Extreme rainfall caused significant highway flows. The rainfall on the carriageway overwhelmed the highway surface water systems on the High Street, Which flowed over the kerb and the movement of passing vehicles caused flooding to one property. 1 Property | LCC - Yes | Following further flooding LCC will undertake cleaning and jetting of the highway surface water system through to the outfall to clear any blockages; however, due to the location and the proximity of the railway crossing permissions to work in the area will need to be granted by Network Rail before any works can commence. If the above does not resolve the issues or if any defects are found a full CCTV survey will be commissioned to ascertain the extent of any defects. | No | Works to clean and jet the surface water system to be programmed but there are issues whilst working near railways that need to be addressed prior to any works commencing. | LCC | On-going | End 2015 TBC | S19-121 |
| 19/09/2014 | Irby In The Marsh Wainfleet Road | Extreme rainfall caused significant highway flows. The rainfall on the carriageway overwhelmed the highway surface water systems on Wainfleet Road, flowing over the dropped access kerbs and causing flooding to one property. 1 Property | LCC - Yes | Highway works are to be undertaken to install a tarmac bund in the access to redirect surface water away from the property towards the highway gully and ditch. Further works to be programmed during 2015 include cleaning and jetting the gully and connections to ensure they are working efficiently. | No | Initial works to install a tarmac bund in the access have been carried out. Works to clean and jet the gully and connections to be carried out shortly | LCC | On-going | Summer 2015 | S19-122 |
| 05/06/2015 | Skegness Police Station, Park Avenue | TBC - 1 property | LCC | Under initial investigation by AR, awaiting feedback | NO | Awaiting Report | | On-going | Summer 2016 | S19-142 |

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations Network North Area J- Contact Officer - Andrew Ratcliffe - Area Highways Manager | | | | | | Identified Actions/Works | | | | |
|--|---|--|-----------------------------|---|-----------------------|--|-----------------------|----------|---|---------------------------|
| Date of Incident | Town & Location | Description of Flooding | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 04/07/2015 | Woodhall Spa Green Lane | Internal Flooding due to a Riparian owned ditch overtopping and entered property notified LLFA feb 15 flooding incident 2012 | LCC Witham 3rd IDB | Internal flooding confirmed by JH investigation & report ongoing | NO | To clean out the blocked/overgrown watercourse and ensure it is regularly maintained Witham 3rd IDB to monitor the maintenance of the riparian ditch and take appropriate enforcement action if required in the future | LCC Witham 3rd IDB | On-going | End 2015 | S19-143 |
| 31/12/2015 | Langton by Spilsby Langton Road | Internal Flooding occurred when a re-build drain which is blocked within the drainage system flooded the area and entered the property | LCC AW | Internal flooding confirmed by JH investigation & report ongoing | NO | Further investigations required to identify blockage/collapse within the sewer system. | LCC AW | On-going | End 2015 | S19-146 |
| 31/12/2015 | Swaby Mill Row | Awaiting Confirmation of Flooding this will be available late Feb | TBC | Awaiting Confirmation of Flooding this will be available late Feb | NO | Awaiting Confirmation of Flooding this will be available late Feb | TBC | On-going | TBC | S19-148 |

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations - Network South Area L - Contact Officer- Rowan Smith - Area Highways Manager | | | | | | Identification Actions/Works | | | | |
|---|---|---|--|---|--|--|-------------------------------|----------|---|---------------------------|
| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 28/06/2012 | Ruskington High Street North and South, Manor Street, Chapel Street and Chestnut Street | Overtopping of Ruskington Beck (Main River) and surcharge of foul sewers and overtopping of riparian watercourse. 6 Properties | 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. | Yes | Investigation ongoing LCC, AW, EA meeting held with all partners' involved to discuss scheme brief. Feasibility and Design 2014/15; possible work 2016/17. | LCC AW EA | On-going | Feasibility and Design 2014/15 Possible works 2015-17 | S19-045 |
| 28/06/2012 | Cranwell Thorald Avenue | 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 Property | Witham 1st IDB - Yes LCC - Yes North Kesteven District Council - Yes | Investigations ongoing between LCC, North Kesteven District Council and Landowners. Work to divert water away from garages being looked at. Landowner has been written to regarding possible cutting of new dyke. | No | Investigations ongoing LCC, NKDC, Landowners possible work being investigated to divert highway water away from private land. Survey complete & report received. Further meeting with NKDC Nov 2014. | LCC NKDC | On-going | Summer 2016 | S19-047 |
| 28/06/2012 | Digby North Street | Overland flow from field into private properties, also blocked culvert/watercourse on school playing field. 8 Properties | LCC - Yes Witham 1st IDB - Yes | LCC, Witham First IDB and the Environment Agency are to undertake local maintenance and are considering improvement works following consultation with the Parish Council. A bid for an overall flood risk study for Digby has been submitted for feasibility, design and works. | Yes | Local maintenance work carried out by LCC, IDB & Landowner and residents on Green Dykes and North Street. Wider improvement scheme under consideration. Feasibility and Design 2014/15. Possible works 2015/16/17. | LCC Witham 1st IDB EA | On-going | Feasibility and Design 2014/15 Possible works 2015-17 | S19-048 |
| | Digby Beck Street | Overtopping of Digby Beck (Main River) and capacity issues on the foul sewer. 2 Properties | Environment Agency - Yes Anglian Water - Yes LCC - Yes | | Yes | | | | | S19-049 |
| | Digby The Hum | Overtopping of IDB drain (Digby Beck North Branch) and riparian watercourse. Suspected failure of Anglian Water foul pumping station. 10 Properties | Witham 1st IDB - Yes Anglian Water - Yes | | Yes | | | | | S19-050 |
| 28/06/2012 | Scopwick Main Street | Ditch backing up and overtopping due to volume of surface water in the main surface water pipe system. 1 Property | Witham 1st IDB (Enforcement) - Yes LCC - Yes | LCC has 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%. AW is considering repairs to the breakages and move its services out of the way. Riparian drainage and maintenance works are required. Investigation needed into overland and groundwater flows into new development. | No | Works carried out on replacement of culvert April 2014. Further investigation works to clear other obstructions on going, and liaising with EA in regards to surface water flow. | LCC | On-going | Spring 2016 | S19-052 |
| 28/06/2012 | Sleaford Southgate | Surface water from public highway and private land flowing into properties through front and rear entrances. 2 Properties | LCC - Yes Anglian Water - Yes | LCC to advise properties on self prevention measures relating to flood resilience. Anglian Water to investigate capacity of combined system. | No | LCC actions completed but awaiting AW investigation. LCC liaising with Anglian Water in regards to capacity issues. | LCC AW | On-going | Summer 2015 | S19-053 |
| 28/06/2012 | Timberland & Thorpe Tilney Village Various | Surcharging of open watercourses and assumed restrictions within culverted sections. Surcharge of public surface and foul water systems. 3 Properties | Witham 1st IDB - Yes LCC - Yes Anglian Water - Yes | Improvement works on 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. | Yes | Local work involving excavations to provide access for CCTV survey on-going. Kerbing work completed. Wider scheme Feasibility and Design 2016/17/18. Possible works 2018/19. LCC to carryout regular monitoring. | LCC | On-going | Feasibility 2017/18 Possible works 2018/19 | S19-054 |
| 28/06/2012 | Swaton West End / High Street | Overland surface water flowing through private land. Separate case of overtopping of Swaton Eau flooding carriageway and property basement. 2 Properties | Environment Agency - Yes Black Sluice IDB - Yes LCC - Yes | The Environment Agency has completed its hydraulic modelling works. Black Sluice Internal Drainage Board has previously bid for an improvement scheme. Environment Agency / LCC have been asked to assist with scheme promotion. | Yes | EA completed modelling, discussion on-going with LCC regarding possible escape route for residents. Also considering resilience measures for properties. Awaiting conclusion of EA/IDB catchment Study | LCC EA Black Sluice IDB | On-going | EA Feasibility Study 2014/15 Possible works 2016/17 | S19-056 |

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations - Network South Area L - Contact Officer- Rowan Smith - Area Highways Manager | | | | | | Identification Actions/Works | | | | |
|---|---|---|---|--|--|---|-------------------------|----------|---|---------------------------|
| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 06/07/2012 | Burton Pedwardine White Cross Lane / Asgardby Road | Surface water surcharge from private open watercourse to the east. 2 Properties | 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. | No | Discussions still ongoing between LLFA, IDB and residents. LCC have found and cleaned 2 pipes under road. | LCC Black Sluice IDB | On-going | 2016 | S19-062 |
| 06/07/2012 | Newton near Haceby Newton Village - C343 Walcott Road | Overtopping of riparian dykes. 7 Properties | Black Sluice IDB - Yes LCC - 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. | Yes | LCC instigated modelling works for catchment area including the village which will take account of new private protection of properties that have been carried out since enforcement letters were sent in June 2013. Proposed culvert replacement programmed. Land Drainage Consent being sort. | LCC Black Sluice IDB | On-going | Feasibility, Design & Build 2015/16/17 | S19-065 |
| 23/05/2014 | Dorrington Main Street | During a period of heavy rainfall this property suffered internal flooding from the lateral sewer beneath the property where water came up through the living room floor. The second event was caused by overland flow where flood water from the garden came in through the rear patio doors. 1 Property | LCC - Yes Anglian Water - Yes | Following investigations it is assumed that saturated land and heavy rainfall caused overland water to flow down the gradient to the property. The lateral sewer located beneath the property was blocked by foreign objects which caused the sewer to burst and push water up through the floor. Anglian Water investigated as to where the excess water came from and suggested that it may have gained access from the foul system through the kitchens open gulley's at the rear of the property. LCC highways are considering installing additional gullies near the property and undertake a survey of the dyke to the rear of the property to determine the outfall on the southern side of the village. Anglian Water to carry out further investigations into ensuring where possible, the excess surface water does not enter the foul water system. The Internal Drainage Board has been requested | No | LCC to consider installation of new gullies near the property. AW to carryout investigations into the foul sewer system. IDB to continue the monitoring of the dykes and enforce as required. Riparian owner to maintain the dykes and ensure they do not restrict their flow. | LCC AW IDB | On-going | Summer 2016 | S19-084 |

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations - Area M - Contact Officer - Mark Heaton - Area Highways Manager | | | | | | Identification Actions/Works | | | | |
|--|--|--|--|---|--|---|------------------|----------|---|--|
| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 File Reference |
| 29/04/2012 | Belton Waterloo Cottages A607 | Surface water from public highway and adjacent private land flowing onto properties. 2 Properties | LCC - 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. | No | New drainage system/dyke renewal (seeking funding). Improvement work designed and due to be built summer 2014. Initial works have started within the private grounds, however, highway work has been delayed due to listed building status of a drystone wall. Original solution could not be built - new solution being considered. Trash screen has been installed. | LCC | On-going | Works have commenced; estimated completion Summer 2015. | S19 - 042 |
| 28/06/2012 | Carlton Scroop Main Street | Surface water run-off from private land running onto highway and entering front of cottage. 1 Property | LCC - Yes Upper Witham IDB - Yes | IDB undertaking enforcement, further LCC investigation to be carried out. | No | IDB undertaking enforcement. Further LCC investigation to be carried out. System jetted, and requires new manhole but will not be placed until other issues have been resolved. | LCC | On-going | Outstanding works due to be completed Summer 2015. | S19 - 043 |
| 06/07/2012 | Harlaxton High Street | Current drainage system has insufficient capacity and backed up causing flooding to the carriageway and 2 properties. 2 Properties | LCC - Yes Upper Witham IDB - Yes Anglian Water - Yes | Following detailed investigation, joint work between LCC and Upper Witham IDB has been completed. Investigation to Mow Beck required to understand overall flood risk. | No | LCC surface water scheme completed and EA to investigate Mow Beck watercourse downstream. | LCC EA | On-going | Summer 2015 | S19 - 060 |
| 06/08/2012 | Caythorpe Gorse Hill Lane | Following an intense period of rain, excess surface water did not drain away fast enough from the gully at the boundary with Kings Hill. This caused surface water to flow across the carriageway and breach the verge and enter the property's driveway, subsequently overtopping the threshold causing internal flooding. 1 Property | LCC - Yes | The profile of the carriageway may cause excess surface water to miss gullies at the boundary of Kings Hill. The installation of a vehicular access built to the correct specification may also prevent further occurrences of flooding by increasing the kerb height between the carriageway and the property. | No | Further investigations of the surface water system required, possibly aided by development plans for Kings Hill. Level survey and wet weather inspection to be carried out to establish validity of highway drains. Inspections & cleansing carried out and further investigations required. | LCC | On-going | Spring 2015 | S19 - 068 |
| 24/08/2015 | Grantham Coxmoor Close, St Million Drive, Cavendish Way, Partnership House Withambrook | TBC - 4 properties | LCC - Yes AWA - Yes EA - Yes | Internal flooding confirmed - investigation & report BG/MH multiple location | No | Awaiting Report | LCC AWA EA | On-going | | S19 - 136 |
| 24/08/2015 | Barkston West Street | TBC - 1 property | TBC | Internal flooding confirmed. Initial Investigations Bryan Gault 28/8/15 | No | Awaiting Report | TBC | On-going | | S19 - 085 (Repeat location, addition to existing report (addendum)) |
| 24/08/2015 | Long Bennington various locations within village | TBC - 23 properties | TBC | Internal flooding confirmed Multiple locations - investigation & report MH/LG | | Awaiting Report | TBC | On-going | | S19 - 137 |
| 24/08/2015 | Westborough Town Street | TBC - 1 property | TBC | Internal flooding confirmed 10/11/15 by LG - investigations & report ongoing | No | Awaiting Report | TBC | On-going | | S19 - 144 |
| 14/09/2015 | Grantham Westgate | Customer called to state that yesterday in the heavy rain the shop began to get flooded. There is two drains outside that are appear to be blocked and water can't go down them. Water started to come in the property straight away, and she called the fire brigade and they attended. They pumped the water out of the property but the shop flooring is damaged. She had sandbags as this has happened on 2 occasions, but these were at her home. She has no power in the property and is loosing money to the business. 1 property | LCC | internal flooding confirmed - under investigation & report | No | Awaiting Report | TBC | On-going | | S19 - 139 |
| 24/08/2015 | Grantham Bridge End Road, | Date of Incident – all on the evening of 24/8/15 (all retrospective enquiries) Source of Report – Lincolnshire Fire & Rescue (F&R) Enquiry code – FL06 Flood Invest Risk to Life/Prop Detail of each report – site was attended by F&R reacting to flooding 1 property | LCC AW | Initial Investigations letter send out to resident 14/9/15 awaiting confirmation of internal flooding | No | Awaiting Report | LCC AW | On-going | | S19-152 |
| 14/09/2015 | Grantham Alexandra Road | TBC 1 property | TBC | Internal flooding confirmed - investigation & report. | No | Awaiting Report | TBC | On-going | | S19 - 138 |

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations - Network South Area N - Contact Officer- Kevin Brumfield - Area Highways Manager | | | | | | Identified Actions/Works | | | | |
|---|---------------------------------|--|---|---|--|--|--------------------|----------|---|---------------------------|
| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 21/11/2012 | Corby Glen Irnham road | Overland flow from adjacent farm land. 1 Property | LCC - Yes | Resilience measures the property owner has taken will reduce the risk of surcharge from the private drain (non-return valve added). Works that have been undertaken by LCC Highways including jetting & CCTV of the system have identified possible improvement works, this would include additional inspection chambers and updating the system. Application for additional funding has been submitted for the installation of inspection chambers and upgrade of the sewer system. | No | Application submitted for funding to add inspection chambers and upgrade sewer system along a short section of Irnham Road. | LCC | On-going | End 2015 | S19-069 |
| 22/05/2014 | Bourne Beadhouse Bank | Due to heavy rainfall surface water built up on the unmade road outside the property to an extent where it flowed into the garden to the front door, at which point it entered the property. 1 Property | LCC - Yes | LCC highways are undertaking a resurfacing scheme of Beadhouse Bank, this will level the road with a cross fall towards the existing tarmac section, water will flow away from the properties towards the existing highway gully. The resident has been recommended to install a kerb line to act as a barrier between the highway and the private property. However, LCC to carry out footway improvements works in the area in 2015. | No | Resurfacing scheme to be undertaken including the construction of a kerb line between the private property and highway to act as a barrier. | LCC | On-going | End 2015 | S19-080 |
| 22/05/2014 | Market Deeping Stamford Road | Following heavy rainfall that fell in a short space of time; causing numerous roads and properties in the area to flood. The amount of rain that fell was excessive for the system at optimum capacity. 1 Property | LCC - Yes AW - Yes | LCC to continue to maintain the surface water system; and consider raising the footway kerbs at the front of the property. However, works to the footway may prove difficult due to conflict with a slope to the footpath away from the building and the existing height of the door threshold and damp proof course levels. Anglian Water to maintain the surface water drainage system. The property owner to maintain the rainwater systems and consider further drainage to allow the escape of water from the rear 'bund' area which is a natural water collection area. | No | Consideration by LCC have been made to lift the footpath and Kerb outside the properties to full height, to prevent water overtopping the kerb onto the footway. However there may be issues in doing this. Awaiting report from AW. | LCC AW | On-going | End 2015 | S19-112 |
| 22/05/2014 | Deeping St James Horsegate | Following torrential rain, excess water on the carriageway forced water to overtop the footway and enter the properties causing internal flooding to the public house. 1 Property | LCC - Yes AW - Yes WDIDB - Yes | LCC to repair blockages in highway surface water system. Welland & Deepings IDB to clear the identified blockages /diversion in their system and ensure the entry feed in the High Street is closed during weather warnings or during periods of heavy rain to ensure there is capacity for surface water two drain away. AW to maintain the surface water drainage systems with recommendation that its system diverts into the watercourse on the High Street instead of linking with the WDIDB watercourse. Resident to consider adding drainage to their exit to the driveway. | No | Maintenance work to be carried out by LCC. Property owner advised on preventative measures to protect the property. AW to clean & jet its system and divert the current system into the watercourse on the high street. its their entry feed on the High Street is closed during periods of heavy rain. | LCC AW WDIDB | On-going | End 2015 | S19-105 |
| 22/05/2014 | Deeping St James Horsegate | Following torrential rain, excess water on the carriageway forced water to overtop the footway and enter the properties causing internal flooding to the residential properties. 3 Properties | LCC - Yes AW - Yes WDIDB - Yes | LCC to repair blockages in highway surface water system. AW to maintain the surface water drainage systems with recommendation that its system diverts into the watercourse on the High Street instead of linking with the WDIDB watercourse. Welland & Deepings IDB to clear the identified blockages /diversion in their system and ensure the entry feed in the High Street is closed during weather warnings or during periods of heavy rain to ensure there is capacity for surface water two drain away. | No | Maintenance work to be carried out by LCC. Property owner advised on preventative measures to protect the property. AW to clean & jet its system and divert the current system into the watercourse on the high street. its their entry feed on the High Street is closed during periods of heavy rain. | LCC AW WDIDB | On-going | End 2015 | S19-106 |

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations - Network South Area N - Contact Officer- Kevin Brumfield - Area Highways Manager | | | | | | Identified Actions/Works | | | | |
|---|-----------------------------------|---|---|---|--|--|--------------------------------|----------|---|---------------------------|
| Date of Incident | Town & Location | Description of Flooding | Risk Management Authorities with Responsibilities and whether they are exercising functions | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 22/05/2014 | Market Deeping Market Place | Following torrential rain, there was excess water on the carriageway. The surface water drains were overwhelmed and when vehicles passed through the standing surface water, bow waves forced water to overtop the footway and enter the properties causing internal flooding. 1 Property | LCC - Yes AW - Yes WDIDB - Yes | LCC to carry out maintenance work on the surface water drainage system. AW to maintain utility surface drainage systems. Property owner to maintain the rainwater drainage systems and consider further drainage to allow the escape of water from the low front area. | No | Maintenance work to be carried out by LCC. Property owner advised on preventative measures to protect the property. AW to continue with regular inspections & maintenance. | LCC AW | On-going | Summer 2015 | S19-107 |
| 22/05/2014 | Market Deeping Market Place | Following torrential rain that fell in a short period, excess surface water on the carriageway, forced water to overtop the footway by passing vehicles and enter the property causing internal flooding. 1 Property | LCC - Yes Anglian Water - Yes | LCC to carry out maintenance work on the surface water drainage system. AW to maintain utility surface drainage systems. Property owner to maintain the rainwater drainage systems and consider further drainage to allow the escape of water from the low front area. | No | Maintenance work to be carried out by LCC. Property owner advised on preventative measures to protect the property. AW to continue with regular inspections & maintenance. | LCC AW | On-going | End 2015 | S19-108 |
| 20/07/2014 | Stamford Water Lane | Following a short period of heavy intense rain, surface water from the highway entered the ground floor of the property. 1 Property | LCC - Yes | LCC to undertake a drainage survey of the system this work has been programmed for 2015 | No | carry out a survey of the drainage system Works are programmed during 2015. | Due to complete Summer 2015 | On-going | End 2015 | S19-116 |
| 08/08/2014 | Uffington Casewick Lane | During a short burst of heavy rainfall, surface water entered the conservatory. 1 Property | LCC - Yes | LCC have recommended that the kerb height be increased to ensure rainwater is directed away from the property and into the gully, additional gullies will be placed along the carriageway. AW to continue to maintain their system. | No | LCC to lift the kerb height and install additional gullies. Works to commence in 2015. | LCC AW | On-going | End 2015 | S19-109 |
| 10/08/2014 | Stamford Northumberland Avenue | Due to heavy rainfall, and a waterlogged public open space in front of the property; excess groundwater encroached the threshold and entered the property damaging the hallway carpets and flooring. 1 Property | LCC - Yes SKDC- Yes AW - Yes | All highway surface water gullies had been cleaned out and jetted prior to the flooding incident, although we have recommended that the system have further investigations carried out in due course. It is believed the Highway surface water system was not the cause of flooding to the property other than the public open space. AW are to survey the site to ascertain whether the combined drainage system is sufficient to accommodate all the downpipe connections from the properties. SKDC to survey the Public Open Space and identify the manhole cover and determine which drainage system it is connected to and if the manhole/catchpit is clear. | No | LCC to carry out CCTV investigations of the highway drainage system. SKDC to carry out investigations of the drainage system within the public open space. AW to ascertain whether the combined drainage system is adequate to serve the properties. | LCC SKDC AW | On-going | End 2015 | S19-111 |
| 04/07/2015 | Tallington Bainton Road | The customer states that the main cause of flooding is water backing up and surcharging out of the four gullies in front of the property. The gullies feed into a AW sewer approximately 10-15m downstream. Water backs up and surcharges out of the gullies, which then floods the property. AW have been doing investigation into this system over the past few months 1 property | LCC / AW | The gullies are programmed to be cleaned and jetted out to ensure the system is flowing well. Due to the proximity to the level crossing a risk assessment is required to be signed off by Network Rail prior to any works commencing. Anglian Water to investigate the sewer system and inspect and service the flood gates at the property to ensure they are fit for purpose. | No | A program of gully cleansing to be carried out shortly. Also a AW to inspect and service the flood gates at the property that they installed, additionally the sewer system requires further investigations to be carried out by Anglian Water. | LCC AW | On-going | Spring 2016 | S19-129 |

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations - Network South Area P - Contact Officer - Andy Wharff - Area Highways Manager | | | | | | Identified Action/Works | | | | |
|--|--|--|---|---|----------------|---|----------|---------------------|---|---------------------------|
| | | | | | | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference |
| 05/12/2013 | Lincolnshire coastal towns and villages and various properties along inland tributaries. Various streets in Boston, Friskney, Trusthorpe, Skegness, Gibraltar Point, Tetney Marsh, Wrangle and Susworth | Following the tidal inundation over the weekend, highway, properties, businesses and high grade agricultural land suffered serious flooding. The incident occurred due to extremely high tides combined with low air pressure and onshore wind direction. Extensive damage was caused to sea defences along the East Coast and tidal tributaries inland including The River Witham Haven, Lower River Trent & River Humber. 820 Properties | Black Sluice IDB - Yes | Skegness - Following partial destruction of the stone wall at the rear of the promenade, discussions are underway with ELDC to agree partnership funding for a permanent solution based on a structural and cosmetic split. Work to construct this permanent flood wall will be undertaken under the local regeneration scheme later this year. | Yes | EA & ELDC staged approach to construction of permanent flood wall. | On-going | Complete March 2015 | S19-075 | |
| | | | Witham 4th IDB - Yes | Boston - Preparation of the Transport and Work Act Order for the Boston Barrier Scheme for submission to the secretary of state is due to be submitted in Autumn 2015. Subject to approval, the programme for delivering a multi-functional tidal barrier includes construction to start during summer 2017 taking approximately 2.5 years for completion. | Yes | Recommendations remain current. DEFRA consulting on Environmental Assessment scope. | On-going | 2017 - 2020 | | |
| | | | South Holland IDB - Yes | Gibraltar Point - No emergency work has been undertaken. However, the Environment Agency are looking at the future of Bulldog Bank sea defence and are reviewing the economic justification to fund its repair. If funding is not achievable alternative options will be considered. | Yes | Recommendations remain current. Mathematical model undertaken and being assessed. | On-going | TBA | | |
| | | | Environment Agency - Yes | Skegness to Mablethorpe Coastline - The annual beech nourishment campaign (Lincs) ran between April & June 2014, replenishing the material lost over the last year. Over a 20km stretch, 6 areas have been re-nourished in this years campaign. | Yes | Recommendations remain current. Salfleet to Gibraltar Point Coastal Strategy Review currently being undertaken. | On-going | TBA | | |
| | | | Anglian Water - Yes | Bath Gardens - The tidal surge led to partial failure of a 10m section of a brick flood wall. Sand bags were used, not only to temporarily secure the opening, but also afterwards to protect the new brickwork against subsequent New Year high tides. | No | Recommendations remain current. | Complete | Complete | | |
| | | | Boston Borough Council - Yes | Black Sluice Pumping Station - 5 diesel pumps became submerged by floodwater, causing temporary loss of power and saline intrusion to the diesel pumps and gearing mechanisms. Following maintenance work to the pumping station it has now been brought back to working order. | Yes | Recommendations remain current. Black Sluice Strategy Review being undertaken. | On-going | Summer 2018 | | |
| | | | Lincolnshire County Council - Yes | Slippery Gowt - Following a 40m wide breach, an immediate temporary repair was completed during December to secure the defence using sheet piling and stone. A permanent repair to improve the defence is underway. | Yes | Permanent repair work completed. Further improvement works to be undertaken following ground investigation. | Complete | Complete | | |
| | | | East Lindsey District Council - Yes | Jakeman's Slip - Area downstream of Grand Sluice on the left bank of The Haven showed signs of movement following the New Year high tides. 300 tonnes of stone was placed and completed in March 2014 to prevent further slippage. | No | Recommendations remain current. Further monitoring confirmed no more work. | Complete | Complete | | |
| | | | South Holland District Council - Yes | The Haven (St Ann's Wharf and White Horse Lane) - Movement of the flood wall was evident in a number of locations and a structural survey was undertaken. The flood wall was repaired along Oxford Street, and a new 30m wall constructed at White Horse Lane. | No | Recommendations remain current. | Complete | Complete | | |
| | | | West Lindsey District Council - Yes | The Wash - The area south of Horseshoe Point where bank-raising is required has been identified within the Medium Term Plan for completion. Following a meeting in January 2014 to discuss the localised community emergency and flood plan (CEFP), this will include the use of flood wardens and the creation of networks to share information. | Yes | Recommendations remain current. Works still progressing in Medium Term Plan to deliver improved defences. | On-going | TBA | | |
| | | | Susworth - Preventative measures for residents, including raising the top step of the footway on the river bank. | No | Raise footway. | On-going | TBA | | | |

Duty to Investigate
Ongoing Section 19 Investigations

| Lincolnshire County Council Section 19 Investigations - Network South Area R - Contact Officer - Debra Greeves - Area Highways Manager | | | | | | Identified Action/Works | | | | |
|--|--------------------------------------|---|-----------------------------|--|-----------------------|---|--------|---|---------------------------|---------|
| Date of Incident | Town & Location | Description of Flooding | Actions and Recommendations | Consideration for inclusion in future Common Works Programme | Proposed Action/Works | Promoter | Status | Estimated Timescales Recommendation / Scheme Completion | S19 Report File Reference | |
| 20/07/2014 | Crowland Chapel Street | The road gully outside the property was unable to cope with the excessive amount of rainfall which resulted in surface water entering into the property, causing damage to the dining room and lounge. 1 Property | LCC - Yes | The drainage system has been jetted; and indicated a possible blockage within the system. Excavations have been carried out and no blockage was detected within the drainage system. Since the reported incident there has been further heavy prolonged downpours within the area with no repeat of the previous flooding incident in July. It has been concluded that the current system is slow running and the surface water was exasperated due to the excessive amount of roof water flowing onto the highway from the property opposite. Further investigations will be carried out in due course. | No | Meeting to be arranged with the owner of the property opposite to identify any amendments which could be required to their roof water disposal system. Preliminary designs undertaken for proposed alterations to LCC surface water drainage. | LCC | On-going | 2016 | S19-113 |
| 01/08/2013 | Spalding Roman Bank | Exceptional heavy rainfall associated with highway levels and capacity of existing surface drainage system affected one property. 1 Property | LCC - Yes | Investigation concluded. S19 report sent to Floods and Water Team. | NO | Division have arranged for changes to the surface water system and carriageway surfacing to adjust levels. This is funded from divisional drainage maintenance budget. The work is programmed for April / May 2016. | LCC | On-going | 2016 | S19-140 |
| October 2015 | Sutton St James Chapelgate | The owner reports that this is a recurring problem that we have tried to resolve in the past. The levels are such that in heavy rain water runs onto the property from the highway down the drive into the rear garden and through the back door. There is no drainage in the property itself and what appears to have been lawn in 2003 now appears to be a hardened gravel area adding to the drainage issue. | LCC - Yes | Investigation concluded. S19 report sent to Floods and Water Team. Proposed to install a gully and adjust carriageway levels on the highway at the access to the property to collect the highway water before it enters the property. | NO | Division have arranged for changes to the surface water system and carriageway surfacing to adjust levels. This is funded from divisional drainage maintenance budget. The work is programmed for Autumn 2016. | LCC | On-going | 2016 | S19-141 |