

Lincolnshire County Council Section 19 Investigations - NORTH DIVISION AREA E - Contact Officer: Jeanne Gibson, Area Highways Manager - Email - LCCHighwaysNorth@lincolnshire.gov.uk						Identified Action/Works			
Date of Incident	Town & Location	Description of Flooding & Number of properties flooded	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	S19 Report File Reference

Lincolnshire County Council Section 19 Investigations - NORTH DIVISION AREA F - Contact Officer: Steve Wiles, Area Highways Manager - Email - LCCHighwaysNorth@lincolnshire.gov.uk						Identified Action/Works			
Date of Incident	Town & Location	Description of Flooding & Number of properties flooded	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	S19 Report File Reference
28-Jun-12	Keelby Maple Avenue, Riby Road and Pelham Crescent	Flooding was caused by surcharging surface water sewers combined with overland flows. 4 Properties	LCC - Yes Anglian 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
25-May-14	Kexby High Street	History of surface water flooding and drainage issues in location. Most recent event involved an intense period of persistent rain causing surface water drains to back up and flow into the garden and driveway, and then into the property whilst the resident was not at home. 1 Property	LCC - Yes	LCC has arranged for the surface water drainage system to be jetted and cleansed. However, there is evidence that there is a broken pipe within the system. It is proposed to install a new section of surface water drain to create a connection to another system which is known to be in good order, providing an alternative outfall and rendering the damaged pipe redundant. WLDC have been advised to sweep the roads to prevent excess silt and debris blocking the drain.	No	System has been cleansed and jetted, WLDC have swept the roads. Damaged surface water drain is currently being replaced by LCC.	LCC	Minor Works completed On-going Spring 2015	S19-076
20-July -14 & 10-Aug-14	Scotter Emison close	During heavy rain in the area, the surface water drainage system located on the High Street was unable to cope with the excess water causing it to flow down the eastern side of Emison Close and into the garden. The water entered the property via the garage and air bricks and caused damage to the living area of the property. 1 Property	LCC - Yes	The current drainage system will adequately drain normal amounts of surface water and is free flowing. However, during intense periods it has been shown that the current system will not cope. Investigations are currently being carried out to see if alteration to the footway levels and kerbing will prevent surface water from flowing onto the property. Remedial works to alter footway levels and kerbing will be programmed in the future.	No	LCC to carry out a level survey and further drainage investigations, to identify any problems with the current system and reconstruction works to alter footway and kerbs in the area.	LCC	On-going Summer 2015	S19-079
11-Aug-14	South Kelsey Thornton Road	Intense summer rainfall caused a combined sewer in the highway to surcharge, leading to a mixture of surface water and foul water entering the property. Investigations revealed an obstruction in the sewer system. 1 Property	LCC - Yes Anglian Water - Yes	The system has been cleaned and jetted out, the nature of the obstruction was unknown, but the system is now running clear. Anglian Water are to carry out an investigation into the condition of the sewer. The property owner has been advised to implement resilience measures to ensure the private connection does not back up in the event of the sewer surcharging. An example of such measures would be the fitting of a non-return valve to the connection.	No	Anglian water to carry out a condition survey of the system and the resident to consider carrying out the fitting of a non-return valve to the private system.	LCC AW Riparian Owner	On-going	S19-104

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Page 49 09-Jun-14	Gainsborough Marshalls Yard	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"> That all RMA's inspect their respective infrastructure and take any necessary steps to ensure it is working as well as possible. Advice be made available to victims of flooding with regard to resistance measures which might be appropriate, for example air brick covers and flood gaters. LCC consider improvements to the highway surface water drainage where this will offer resistance to flooding from surface runoff. That the LLFA investigate the feasibility of overland flood routes to manage the risk of flooding from surface water 	No	All actions and recommendations being progressed.	LCC WLDC STW	On-going	S19-115
	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									
19-Jul-14	Market Rasen Oxford Street	Following a period of unusually intense rainfall as a result of which the surface water highway drain surcharged, the resultant surface runoff from the road and footway entered the property through the door. 1 Property	LCC - Yes	The recommendations including Cleaning and jetting the entire drainage system. During the routine gully cleansing a minor defects were reported approximately 50m from the property. As part as routine maintenance the blocked connection will be repaired in due course.	No	Routine maintenance will be carried out to remove the blockage from the connection further down the system.	LCC	On-going Summer 2015	S19-114
21-Jul-14	Hemswell Capper Avenue	The cause of flooding appears to be surface water run-off from the carriageway and adjacent open grass area following a period of heavy rain, with the carriageway drainage unable to cope. Capper Avenue is a private road in the control of a management company, which includes the surface water drainage. 1 Property	LCC - Yes Anglian Water - Yes	<p>The recommendations include investigations be made by the management company into the surface water drainage system to check the system is operating at full capacity, and identify and reasonable improvements to mitigate residual flood risk.</p> <p>That investigations be made by Anglian Water into the condition of the foul system.</p> <p>That the property owner be reminded of advice given in 2012 by WLDC with regard to flood risk management and property protection.</p>	No	All actions and recommendations being progressed.	LCC AW Private	On-going Autumn 2015	S19-127

Lincolnshire County Council Section 19 Investigations - NORT DIVISION AREA G - Contact Officer: Alan Brown, Area Highways Manager - Email - LCCHighwaysNorth@lincolnshire.gov.uk						Identified Action/Works			
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Lincolnshire County Council Section 19 Investigations - EAST DIVISION AREA H - Contact Officer: Dean Myhill, Area Highways Manager - Email - LCCHighwaysEast@lincolnshire.gov.uk						Identified Action/Works			
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29-Jun-12	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 & Possible works 2015	S19-012
Page 51 28 Jun 12 6 Jul 12	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. 9 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 plans included a retaining wall at its junction with Riverhead Terrace. However, this was not constructed at the time of the flooding. In addition, a number of planned road gullies at the western end of the development were not installed and others were blocked. This added to the problems in the Terrace by allowing flows from the higher development to cascade down into Riverhead Terrace. Since the summer ELDC have required the developer to complete the retaining wall, install the missing gullies, and clean out the surface water sewer system, which should mitigate the overland flows from the development. However, there remains a significant issue in that the development has severed the natural drainage and flow routes from Riverhead Terrace, such that surface water from the Terrace and land to the north are trapped against the retaining wall and the raised development. East Lindsey District Council has commissioned a study which has commenced. Survey complete and study undertaken to identify issues and solutions. Anglian Water has undertaken further investigation with potential for a grant aid bid.	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.	AW ELDC	Completion due Summer 2015	S19-016
09-Jun-14	Saltfleet 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 completion due Summer 2015	S19-094

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24-Jun-14	Manby Provost Road / Carlton Road & Chapel Lane	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	Partially completed Summer 2015	S19-095
08-Aug-14	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. In addition to the drainage works LCC Highways are replacing the dropped kerbs outside the property with full height kerbs to help redirect surface water away from the property.	LCC	On-going Completion due Summer 2015	S19-088

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28-Jun-12	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	Minor works completed but further feasibility & design works programmed 2015 - 2017	S19-001
28-Jun-12	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	Minor works completed but further feasibility & design works programmed 2015 - 2017	S19-002
28-Jun-12	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	Minor works completed but further feasibility & design works programmed 2015 - 2017	S19-003

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28-Jun-12	Horncastle Langton Hill	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 Properties	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.	Yes	Highway drainage system repaired and functioning. Anglian Water checked the surface water system and it is working acceptably. Initial works 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	Feasibility & Design Works 2014 - 2015 - 2017	S19-004
28-Jun-12	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	Minor works completed but further feasibility & design works programmed 2015 - 2017	S19-005
28-Jun-12	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	Minor works completed but further feasibility & design works programmed 2015 - 2017	S19-006
28-Jun-12	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	Minor works completed but further feasibility & design works programmed 2014 - 2016	S19-007

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28-Jun-12	Toynnton 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 Toynnton 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	Investigation 2016/17/18 Possible works 2018/19/20	S19-010
06-Jul-12	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 the 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	Partially complete but further investigations on-going 2014/15	S19-024
09-Jun-14	Hagworthingham Sausthorpe Road	Following torrential rainfall, drains were unable to expel 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-Jun-14	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 Properties	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-Jun-14	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	Completion due Spring 2015	S19-096

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09-Jun-14	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
24-Jun-14	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-Jun-2014 & 13-Jul-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-Jun-14	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 it's 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-Jun-14	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

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05-Jun-15 Page 57	Skegness Park Avenue	Internal flooding at the Police Station. 1 Property	LCC - Yes	LCC are currently investigating the incident which was reported by AWA	No	Further investigations to be carried out by LCC	LCC	NA	NA

Lincolnshire County Council Section 19 Investigations - WEST DIVISION AREA L - Contact Officer: Rowan Smith, Area Highways Manager - Email - LCCHighwaysWest@lincolnshire.gov.uk						Identified Action/Works			
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28-Jun-12	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 carry out a hydraulic model of Ruskington Beck 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 flood 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	Feasibility and Design 2014/15 Possible works 2015-17	S19-045
28-Jun-12	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 by LCC, NKDC and Landowners. Possible work being investigated to divert highway water away from private land. Survey complete & report received. Further meeting held with NKDC Nov 2014.	LCC NKDC	Summer 2015	S19-047
28/06/2012 & 29/06/2012	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. AW investigating sewer system.	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. AW investigating sewer system	LCC Witham 1st IDB EA AW	Minor works have been completed. Further feasibility & design works programmed 2014/15 Possible works 2015-17	S19-048
28/06/2012 & 29/06/2012	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
28/06/2012 & 29/06/2012	Digby The Hurn	Overtopping of IDB drain (Digby Beck North Branch) and riparian watercourse. 10 Properties	Witham 1st IDB - Yes Anglian Water - Yes		Yes				S19-050
28-Jun-12	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 by LCC 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	Minor works have been completed. Further feasibility & design works programmed Spring 2015	S19-052
28-Jun-12	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	Summer 2015	S19-053

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28-Jun-12	Timberland & Thorpe Tilney village Church Lane & Hallams Lane	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	Minor works completed. Further Feasibility & design works programmed for 2017/18 Possible works 2018/19	S19-054
28-Jun-12	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 evacuation route for residents. Also considering resilience measures for properties.	LCC EA BSIDB	EA Feasibility Study 2014/15 Possible works 2016/17	S19-056
06-Jul-12	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 BSIDB	On-going completion due summer 2015	S19-062
06-Jul-13	Newton near Haceby Newton Village	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 BSIDB	On-going Feasibility, Design & Build 2014/15/16	S19-065
23-May-14	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 gully'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 to continue monitoring of the dykes, and take enforcement as necessary. The riparian owner to maintain the dykes that they are responsible for and not to do anything that may restrict their	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 the flow.	LCC AW IDB	Partially Completed Summer 2015	S19-084

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06-Jul-12	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	Completion due Summer 2015	S19-060
6th Aug 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	Completion due Spring 2015	S19-068

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22-May-14	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	Completion due Summer 2015	S19-080
Page 61 21-Nov-12	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	Completion due Summer 2015	S19-069
22-May-14	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. 4 Property	LCC - Yes Anglian Water - Yes Welling & Deepings IDB - Yes	LCC to repair blockages in highway surface water system. Welland & Deepings IDB to clear the identified blockages /diversion in its 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 to 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.	LCC AW WDIDB	Completion due Summer 2015	S19-105 S19-106
22-May-14	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 Anglian Water - 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	TBC	S19-112

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22-May-14	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. 2 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 owners advised on preventative measures to protect the properties. AW to continue with regular inspections & maintenance.	LCC AW	Completion due Summer 2015	S19-107
									S19-108
20-Jul-14	Stamford Water Lane	Following a short period of heavy intense rain, surface water from the highway entered the groundfloor of the property. 1 Property	LCC - Yes	LCC to carry out a survey of the drainage system.	LCC - Yes	LCC to undertake a drainage survey of the system this work has been programmed for 2015	LCC	Due to complete Summer 2015	S19-116
08-Aug-14	Uffington Casewick Lane	During a short burst of heavy rainfall, surface water entered the conservatory. 1 Property	LCC - Yes Anglian Water - 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	Completion due Summer 2015	S19-109
13-Jul-14	Stamford Water Lane	Following a short period of heavy intense rain, surface water from the highway entered the groundfloor of the property. 1 Property	LCC - Yes	LCC to survey and plot the layout of the drainage system to ascertain whether there are any blockages or damage within the system.	No	Carry out a survey of the drainage system works to be completed in summer 2015	LCC	Works due to complete Summer 2015	S19-110
10-Aug-14	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 South Kesteven DC - Yes Anglian Water - 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	Completion due Summer 2015	S19-111

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04-Jul-15	Tallington Bainton Road	Suspected cause of flooding is water backing up coming out of the four gullies in front of the property. These gullies are LCC, but the LCC system here feeds into a AW surface sewer about 10-15m downstream. Confirm enquiry 193353. 1 Property	LCC - Yes Anglian Water - Yes	Investigation with AWA have started in July 2015	TBA	LCC investigating with AWA	LCC AWA	TBA	TBA

Lincolnshire County Council Section 19 Investigations - SOUTH DIVISION AREA R - Contact Officer: Debra Greeves, Area Highways Manager - Email - LCCHighwaysSouth@lincolnshire.gov.uk						Identified Action/Works			
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20-Jul-14	Crowland Chapel Street	Flooding occurred to a property following a heavy downpour. Roof water from a near by building ejects water into the carriageway. Surface water flowed over the surface water drain and into the property. Additionally during this event sewage from the property lifted the manhole in the garden. 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	Further Drainage Investigations including a 'sonde' is to be carried out in due course. An enforcement letter will be sent to the property opposite which is discharging water onto the highway. Enforcement letter sent to property. Initial investigation carried out with Sonde. More work required.	LCC	On-going completion due Summer 2015	S19-113

Lincolnshire County Council Section 19 Investigations - SOUTH DIVISION AREA P - Contact Officer: Andy Wharff, Area Highways Manager - Email - LCCHighwaysSouth@lincolnshire.gov.uk						Identified Action/Works			
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05-Dec-13	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 Witham 4th IDB - Yes South Holland IDB - Yes Environment Agency - Yes Anglian Water - Yes Boston Borough Council - Yes Lincolnshire County Council - Yes East Lindsey District Council - Yes South Holland District Council - Yes West Lindsey District Council - 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 spilt. 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.	Shoreline management partnership approach involving: Black Sluice IDB Witham 4th IDB Sth Holland IDB EA AW BBC LCC ELDC SHDC WLDC	Completion Due March 2015	S19-075
				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.		2017 - 2020	
				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.		TBA	
				Skegness to Mablethorpe Coastline - The annual beech nourishment campaign (Lincshore) 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.		TBA	
				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	
				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.		TBA	
				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.		Oct 2014 - Mar 2015	
				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	
				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	
				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.		TBA	

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				Susworth -Preventative measures for residents, including raising the top step of the footway on the river bank.	No	Raise footway.		TBA	

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13-Jul-14	Freiston Oak House Lane	Following a short period of heavy rain, surface water from the highway entered an external building where stock was stored for the business. 1 Property	LCC - Yes	LCC to place an additional gully outside the property on the highway to assist with the removal of surface water. The drainage system has capacity to accommodate the additional gully.	No	Works are programmed during 2015.	LCC	Due to complete Summer 2015	S19-110
19-Jul-14	Swineshead Market Place	Flooding to the business occurred following a heavy downpour. The business suffered internal flooding due to surface water runoff from the carriageway entering the car park and subsequently entering the property. 1 Property	LCC - Yes	The entire drainage system has been jetted and cleaned; a new connection from both of the alleys is programmed. The drainage system requires a new chamber and new connections to the highway drainage system in the carriageway. The adjacent property owner has an irregular outfall into the alley way; he has been notified to find an alternative way to discharge surface water from the property. Additionally, the low spots in the alley way that allows surface water to flow from the highway around the back of the public house will require modifying to provide a water check to prevent this re-occurring. All works required will be programmed for 2015.	No	New connections, chamber pots and minor highway alterations are currently in the works programme for next financial year.	LCC	Completion due Summer 2015	S19-103

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