



Northamptonshire Local Flood Risk Management Strategy Action Plan Update

Living Document
Northamptonshire County Council
November 2016

1. ACTION PLAN UPDATE

Northamptonshire Local Flood Risk Management Strategy

- 1.1. Northamptonshire County Council (NCC) is the Lead Local Flood Authority for all of Northamptonshire. Therefore, NCC is required to develop, maintain, apply and monitor the application of a strategy for local flood risk in the area.
- 1.2. The overarching aim of the Northamptonshire Local Flood Risk Management Strategy (LFRMS) is to provide a robust local framework that employs a full range of complementary approaches towards managing and communicating the risks and consequences of flooding arising from surface runoff, groundwater and ordinary watercourses in Northamptonshire and the surrounding area.
- 1.3. The full report and associated documents can be found in the flood library of the NCC Flood Toolkit at <http://www.floodtoolkit.com/pdf-library/>.

Action Plan

- 1.4. The LFRMS includes an Action Plan, which highlights the key objectives of the LFRMS and the associated actions required to achieve them. It also draws out previously identified actions within flood and water technical documents related to Northamptonshire, which have not yet been implemented.
- 1.5. The Action Plan identifies actions from all partners within the county, to provide an overview of proposed flood risk management activities within the county. As well as information provided directly from partners, the Action Plan includes a number of potential flood alleviation schemes, which require further investigation. This is to assess their viability and this will be compiled from information drawn from a number of different sources including:
 - those submitted for government funding in the past but have been unsuccessful;
 - schemes recommended within technical documents; and
 - potential improvement works identified by Northamptonshire Highways.
- 1.6. In addition to the specific actions set out in this Action Plan, the following activities will be given precedence in the highest priority wards as set out in the Northamptonshire LFRMS Update GIS & Prioritisation report:
 - Data collection and registration of existing assets, particularly focussed on ordinary watercourses and surface water features;
 - Designation of assets, which are considered by all risk management authorities to have a significant flood defence function;
 - Involvement in community flood resilience projects, subject to available funding.
- 1.7. Actions with a specific geographic location within the county are identified on the Action Plan Map at the end of this document.
- 1.8. It has been agreed that the Action Plan will be updated annually. Any new actions will be identified and included in the plan. Existing actions will be updated where new information is available. Completed actions will be retained within the plan to ensure that a record is kept of all completed works.
- 1.9. A Red-Amber-Green (RAG) assessment has been undertaken on all of the actions within the Action Plan, to provide a simple visual identification of progress.

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Objective 1 – Collaborative Approach							
Adopt a collaborative approach to managing local flood risk by working with local partners and stakeholders to identify, secure and optimise resources, expertise and opportunities for reducing flood risk and increasing resilience to flooding							
The Lead Local Flood Authority (LLFA) will explore opportunities for Flood Awareness Campaigns	Continue to explore opportunities for future community engagement events and awareness sessions.	Ongoing	Ongoing	N/A	Northamptonshire County Council (NCC), Environment Agency (EA), Local Authorities (LAs), Water and Sewerage Companies (WaSCs)	NCC (EA, LAs, WaSCs)	LLFA
The LLFA will continue to promote partnership working	Continue to promote partnership working, maintaining communication between all partners and stakeholders through the Flood and Water Management Framework.	Ongoing	Ongoing	N/A	N/A	NCC (EA, LAs, JPU's, Joint Delivery Units (where applicable and relevant), WaSCs, Internal Drainage Board (IDB), Highways England (HE)	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
The LLFA will train council staff in each of the call centres to enable advice to be given to the public in a flood incident	Training of council staff to enable correct advice to be given to the public in a flood incident, ensure right questions are asked and information is recorded correctly and is saved on a database.	Ongoing	Ongoing – training programme updated in line with Flood Toolkit launch	N/A	N/A	NCC (LAs, EA, WaSCs)	LLFA
The LLFA will investigate flooding incidents in accordance with Section 19 of Flood & Water Management Act (2010)	Undertake formal investigations of flood incidents that occur and meet the thresholds set to produce a Flood Investigation Report (FIR). Continue to send monthly reminders for partners to provide records of flooding incidents.	As and when the threshold is met	30 FIRs completed	£10k per annum	N/A	NCC (EA, LAs, WaSCs, HE)	LLFA
Objective 2 – Local Flood Risk							
Develop a greater understanding of local flood risk by improving the scope of local knowledge and understanding of current and future local flood risks							
Develop improved Geographic Information System (GIS) tools for the LLFA	NCC's existing GIS tool for planning will continue to be developed to include the results of new strategies, plans and studies, to ensure that surface water and other local sources of risk are accurately presented and can be used to inform planning decisions. This system has recently been expanded to include surface water drainage attributes. Procedures will continue to be developed to ensure consistency of data held by partners.	Ongoing	Ongoing	N/A	N/A	NCC	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
The LLFA will continue to develop and implement actions in highest priority areas	<p>The following activities will be given precedence:</p> <ul style="list-style-type: none"> • Data collection and registration of existing assets, particularly focussed on Ordinary Watercourses and surface water features; • Designation of assets which have a significant flood defence function; • Establishing regular, proactive culvert inspection and maintenance regimes on council owned assets; and • Working with LAs to establish proactive inspection and maintenance regimes on their assets. 	Ongoing	Ongoing	N/A	N/A	NCC (EA, LAs, WaSCs, HE)	LLFA
Corby Borough Council (CBC) will carry out a Flood Risk Management (FRM) Plan of Corby	To gain a better understanding of surface water flooding mechanisms within Corby, the identification of Critical Drainage Areas and potential schemes for the subsequent development of priority flood alleviation measures. Establish ownership and maintenance regimes and a long-term action plan to manage and target local flood risk, particularly in higher risk areas.	2015	Completed	£75k	CBC, Flood and Coastal Erosion Risk Management Grant in Aid (FCERM GiA), Local Levy	CBC (NCC, EA, Anglian Water Services (AWS), local residents and riparian owners)	Corby SFRA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Kettering Borough Council (KBC) will carry out a SWMP for Kettering Borough	To gain a better understanding of surface water flooding mechanisms within Kettering Borough, the identification of Critical Drainage Areas and potential schemes for the subsequent development of priority flood alleviation measures. There will be close links with the Green Infrastructure Strategy for the Slade Brook, and assessment of opportunities for strategic use of SuDS within the Alledge Brook catchment and for attenuation at Glendon Hall and within the Thorpe Malsor and Cransley Reservoir catchments.	December 2016	Ongoing - on track	£45k	KBC, NCC, EA	KBC and AECOM, (NCC, EA, AWS, NNJPU, ENC)	Kettering and Wellingborough SFRA
NCC will carry out a SWMP for the Borough of Wellingborough	To gain a better understanding of surface water flooding mechanisms in the Borough of Wellingborough, for the subsequent development of priority flood alleviation measures. To include the identification of areas where targeted maintenance and improvements to watercourses and drainage systems are required. Planners to be informed of areas identified to be vulnerable to surface water flooding.	December 2016	Ongoing - on track	£75k	NCC, FCERM GiA	NCC (BCW, EA, AWS, NNJPU)	Kettering and Wellingborough SFRA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
NCC will carry out a SWMP of East Northamptonshire	To gain a better understanding of surface water flooding mechanisms in the District of East Northamptonshire, for the subsequent development of priority flood alleviation measures. This includes the identification of areas where targeted maintenance and improvements to watercourses and drainage systems are required. Planners to be informed of areas identified to be vulnerable to surface water flooding.	December 2016	Ongoing - on track	£75k	NCC, FCERM GiA	NCC (ENDC, EA, AWS, WNJPU)	East Northants SFRA
NCC will carry out a SWMP of South Northamptonshire	To gain a better understanding of surface water flooding mechanisms in the District of South Northamptonshire, for the subsequent development of priority flood alleviation measures. To include identification of areas where targeted maintenance and improvements to watercourses and drainage systems are required. Planners to be informed of areas identified to be vulnerable to surface water flooding.	December 2016	Ongoing - on track	£75k	NCC, FCERM GiA	NCC (SNC, EA, WaSCs, WNJPU)	Daventry and South Northants Level 2 SFRA
NCC will carry out a SWMP of Daventry District	To gain a better understanding of surface water flooding mechanisms in the District of Daventry, for the subsequent development of priority flood alleviation measures. To include identification of areas where targeted maintenance and improvements to watercourses and drainage systems are required. Planners to be informed of areas identified to be vulnerable to surface water flooding.	December 2016	Ongoing - on track	£75k	NCC, FCERM GiA	NCC (DDC, EA, WaSCs, WNJPU)	Daventry and South Northants Level 2 SFRA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Anglian Water Services (AWS) will undertake a survey/ CCTV investigation of highest risk areas of surface water drainage network	AWS have an on-going programme of CCTV work being carried out across the region, linked to sewer rehab and infiltration management. A risk-based approach is being taken to the prioritisation of work, including in the Billing catchment. In 2015 74km of sewer CCTV was undertaken in Northampton, 1km of sewer in Towcester and 500m of sewer in Yardley Hastings. Any rehab work will be undertaken in 2016/17 onwards.	Ongoing	Ongoing	N/A	AWS	AWS (NBC, EA, NCC)	AWS
Severn Trent Water will continue to investigate and address flood risk issues	This will be achieved by: <ul style="list-style-type: none"> • Reducing the risk of flooding to properties on the 'at risk' register; • Removing surface water from sewers; • Reducing flood risk to Severn Trent Water's assets; • Working closely with flood risk management partners; • Ensuring adequate inspection and associated maintenance; • Improving the understanding of flood risk by raising customer awareness, improving communication and education. 	Ongoing	Ongoing	N/A	STW	LAs DDC, EA, NCC)	STW

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Investigation into Flooding at Kislingbury	There are numerous locations within Kislingbury where, during heavy and prolonged rainfall, surface water and foul water flooding occurs behind the main river defences, flooding the main road and restricting access to properties. The investigation will look at the cause and potential solutions. (Map ref 1)	Dependent on funding	Not started, but not due	Estimate £20k for the investigation	NCC, FCERM GiA, AWS	NCC (EA, AWS, SNC, Community)	LLFA
Objective 3 – Enhance the Natural and Historic Environment							
Adopt a sustainable approach to reducing local flood risk, seeking to lessen the risk of localised flooding using mechanisms that are economically viable, deliver wider environmental benefits and promote the wellbeing of local people							
The LLFA will continue to inform new and update development plan policies	Ensuring planning officers are aware of ongoing changes in national and local policy. Ensure lines of communication and roles & responsibilities are clear. Inform planning officers of the outputs of this Strategy.	As and when new plans are produced	Ongoing	N/A	N/A	NCC (EA, LAs, JPUs and Joint Delivery Units)	LLFA
The LLFA will assess the potential impact of flooding on designated environmental sites	Working in partnership to assess the potential positive, negative and neutral impacts of flooding on designated environmental sites, improve understanding of flood risk and to inform updates of the prioritisation assessment.	2014	Complete	£7.5k	NCC	NCC (WT, NE, EA)	LLFA
The LLFA will assess the potential impact of flooding on designated heritage sites	Working in partnership to assess the potential positive, negative and neutral impacts of flooding on designated heritage sites, improve understanding of flood risk and to inform updates of the prioritisation assessment.	2015	Complete	N/A	N/A	NCC (English Heritage, LAs)	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
The LLFA will continue to promote the environmental actions outlined in Objective 3	Promote environmental actions including: de-culverting, natural flood risk management, blue/green infrastructure identified in Green Infrastructure Plans, increased tree cover, catchment sensitive farming.	Ongoing	Ongoing	N/A	N/A	NCC (EA, LAs, JPU's, WaSCs, NE, IDB, Wildlife Trust (WT), HE)	LLFA
The LLFA to promote the actions resulting from WFD investigations for heavily modified waterbodies	Water Framework Directive waterbody investigations resulted in a number of actions to improve the status of heavily modified waterbodies, to be explored as opportunities arise.	Ongoing	Ongoing	Not yet determined	Not yet determined	NCC (EA, riparian owners, developers)	EA
Brampton Branch Integrated Water Framework Directive and Flood Risk Management catchment based approach	The EA has identified a number of measures for the Brampton Branch WFD operational catchment, including attenuating water, catchment sensitive farming and sediment traps, plus the use of natural processes. Develop partnerships to attract funding and joint delivery of the measures. Identify any flood risk management benefits achieved from implementing the measures i.e. to manage surface water flooding. Aim for an integrated catchment approach/vision bringing together multiple benefits. A Catchment Sensitive Farming Officer has been recruited by the Environment Agency to promote this catchment-based approach and to secure funding opportunities.	Dependent on availability of WFD/ FCERM GiA funding	Not started, but not due	Total Scheme cost estimate approx £3.9M. Individual measures will cost less and can be implemented separately	FCERM GiA/ WFD GiA	EA (NCC, landowners, Local Enterprise Partnerships (LEP)s, developers, Wildlife trusts and groups)	EA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
River Ise Integrated Water Framework Directive and Flood Risk Management catchment based approach	The EA has identified a number of measures for the River Ise WFD operational catchment, including attenuating water, catchment sensitive farming and sediment traps, plus the use of natural processes. Develop partnerships to attract funding and joint delivery of the measures. Identify additional flood risk management benefits of implementing the measures i.e. to manage surface water flooding. Aim for an integrated catchment approach/vision bringing together multiple benefits. A Catchment Sensitive Farming Officer is to be recruited by the Environment Agency to promote this catchment-based approach and to secure funding opportunities.	Dependent on availability of WFD/FCERM GiA funding	Not started, but not due	Total estimated scheme cost of£3.7M. Individual measures will cost less and can be implemented separately.	FCERM GiA/ WFD GiA	EA (NCC, landowners, LEPs, developers, Wildlife trusts and groups)	EA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Middle Nene integrated Water Framework Directive and Flood Risk Management catchment based approach	The EA has identified a number of measures for the Middle Nene WFD operational catchment, including attenuating water, catchment sensitive farming and sediment traps, plus the use of natural processes. Develop partnerships to attract funding and joint delivery of the measures. Identify additional flood risk management benefits of implementing the measures i.e. to manage surface water flooding. Aim for an integrated catchment approach/vision bringing together multiple benefits. A Catchment Sensitive Farming Officer has been recruited by the Environment Agency to promote this catchment-based approach and to secure funding opportunities.	Dependent on availability of WFD/FCERM GiA funding	Not started, but not due	Total Scheme cost estimate approx £15M. Individual measures will cost less and can be implemented independently.	FCERM GiA/WFD GiA	EA (NCC, landowners, LEPs, developers, Wildlife trusts and groups)	EA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Upper Nene Water Framework Directive and Flood Risk Management catchment based approach	The EA has identified a number of measures for the Upper Nene WFD operational catchment, including attenuating water, catchment sensitive farming and sediment traps, plus the use of natural processes. Develop partnerships to attract funding and joint delivery of the measures. Identify additional flood risk management benefits of implementing the measures i.e. to manage surface water flooding. Aim for an integrated catchment approach/vision bringing together multiple benefits. A Catchment Sensitive Farming Officer has been recruited by the Environment Agency to promote this catchment-based approach and to secure funding opportunities.	Dependent on availability of WFD/FCERM GiA funding	Not started, but not due	Total Scheme cost estimate approx £2.4M. Individual measures will cost less and can be implemented independently.	FCERM GiA/WFD GiA	EA (NCC, landowners, LEPs, developers, Wildlife trusts and groups)	EA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Willow Brook Integrated Water Framework Directive and Flood Risk Management catchment based approach	The EA has identified a number of measures for the Willow Brook (tributary of River Nene) WFD operational catchment, including attenuating water, catchment sensitive farming and sediment traps, plus the use of natural processes. Develop partnerships to attract funding and joint delivery of the measures. Identify additional flood risk management benefits of implementing the measures i.e. to manage surface water flooding. Aim for an integrated catchment approach/vision bringing together multiple benefits. A Catchment Sensitive Farming Officer has been recruited by the Environment Agency to promote this catchment-based approach and to secure funding opportunities.	Dependent on availability of WFD/FCERM funding	Not started, but not due	Total Scheme cost estimate approx £0.4M Individual measures will cost less and can be implemented independently.	FCERM GiA/ WFD GiA	EA (NCC, landowners, LEPs, developers, Wildlife trusts and groups)	EA
River corridor habitat improvement for WFD compliance at Gretton	The EA has identified required improvement to river corridor habitats in terms of geomorphology; cover and food supply for fish, invertebrates and other aquatic fauna; water quality; and sediment quality. As well as delivering physical improvements, the works will demonstrate what is possible on the rest of the river within a reasonable economic cost.	2014-2019, dependent on FCERM GiA and WFD GiA funding	The project is largely complete except a short reach for which no funding is currently available.	Scheme cost estimate approx £100k	FCERM GiA/ WFD GiA	EA (NCC, landowners, LEPs, developers, Wildlife trusts and groups)	EA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
River Ise SSSI Improvements	The River Ise is the only riverine SSSI in Anglian Region, Northern Area. This project is to deliver the Diffuse Water Pollution Plan for the Ise SSSI and other works to ensure it reaches favourable condition. Also benefits WFD by reducing diffuse inputs and ensures the Ise stays at good status. (Map ref 2)	2015-2020, dependent on FCERM GiA and WFD GiA funding	Not started, but not due	Scheme cost estimate approx £80k	FCERM GiA/ WFD GiA	EA (NCC, landowners, LEPs, developers, Wildlife trusts and groups)	EA
Objective 4 – Preparedness and Resilience							
Reduce the harmful consequences of local flooding to communities and human health through proactive actions, activities and education programmes that enhance preparedness and resilience to local flood risk, and contribute to minimising community disruption							
NCC will review and update the Multi Agency Flood Plan (MAFP)	Northamptonshire County Council will work with the Local Resilience Forum (LRF) to review and update the Multi Agency Flood Plan (MAFP) and disseminate outputs of any studies undertaken. LRF will continue to develop business continuity, emergency and evacuation plans, and review essential and critical infrastructure protection, to inform the MAFP.	2015	Complete	£3k	LRF	NCC (LRF, LAs, EA)	LLFA
The LLFA to undertake a Community Resilience Pathfinder project to develop community flood resilience	Develop a community flood toolkit for 15 pilot communities. The tools and guidance will then be available to other communities through a web portal. The project's approach will be to help communities to understand their flood risk and enable them to generate local resilience solutions. The flood toolkit can be found at: www.floodtoolkit.com	April 2015 completion	Complete	£300k	Defra grant	NCC (parish councils, communities, EA, LAs, WaSCs)	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
The LLFA to take forward the findings of the Community Resilience Pathfinder project to 30 new prioritised communities	The project's approach will be to help communities to understand their flood risk and enable them to generate local resilience solutions.	April 2019 completion	Not started, but not due	£270k	RFCC Local Levy	NCC (parish councils, communities, EA, LAs, WaSCs)	LLFA
The LLFA to undertake a pilot project to 'package' the project appraisal process for flood alleviation schemes	This project will take a package of 8 disparate communities through the FCERM Appraisal and Approval Process. The communities are: <ol style="list-style-type: none"> 1. Grafton Underwood 2. Manor Road, Grimscote 3. Station Road, Helmdon 4. School Lane, Quinton 5. Wappenham Road, Syresham 6. Whiston Road, Cogenhoe 7. Blackmile Lane, Grendon 8. Hellidon, Daventry All 8 communities have experienced internal property flooding, resulting in the need for a formal S19 Investigation. The project will look at the delivery of efficiencies and thereby maximise the outcomes of this project. (Map ref 3)	September 2015 – April 2016	Completed	£83k	Defra grant	NCC (parish councils, communities, EA, LAs, WaSCs)	LLFA
The LLFA will explore flood warning opportunities	Explore the potential to create warning systems, to assist in understanding of 'real time' flooding incidents.	April 2015	Complete	£25k	Partnership	NCC (EA, LAs)	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Undertake further Groundwater Flood Risk Assessment in highest priority wards to inform preparedness and mitigation	Undertake further groundwater flood risk assessment within the wards identified as at greatest economic risk from groundwater flooding. Develop a high level strategy for raising awareness of the risk within these communities and for mitigating against potential flooding	As funding becomes available	Not started, but not due	Not yet determined	NCC, community	NCC (EA, community)	Northamptonshire Ground Water Flood Risk Study
Development of Groundwater Flood Risk Forecasting	Develop a groundwater flood risk monitoring and forecasting system, potentially through installation of up to 3 new boreholes within the county. The Groundwater Flood Risk Study outputs should be used to set up cumulative rainfall alarms as further warning.	As funding becomes available	Not started, but not due	£30k-£40k for boreholes	NCC, Partnership	NCC (parish councils, communities, EA, LAs, WaSCs)	Northamptonshire Ground Water Flood Risk Study
AWS and EA will undertake investigation into the maintenance and clearance of surface water outfalls on the River Nene	Regular inspections of outfalls. AWS are responsible for 31 flap valves in the Northampton area along the River Nene. An asset review will ensure that the outfalls are maintained on a regular basis, based on the need and their risk. (Map ref 4)	Ongoing	Ongoing	N/A	Partnership	AWS (EA, NBC, NCC)	Northampton SWMP

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Skew Bridge, Rushden Refurbishment Project	EA will work with professional partners and the community to undertake a comprehensive review of the existing flood risk management assets, including the culverts, to understand the flood risk and investigate appropriate solutions to sustain the standard of service that they provide. The potential re-development of the town centre and development proposals upstream may provide opportunities to reduce flood risk and improve river corridor habitats. (Map ref 5)	Post 2021, dependent upon FCERM GiA funding, yet to be determined	Not started, but not due	Scheme cost: £500k-£1M	Local Community, FCERM GiA and Partnership	EA (NCC, ENC, community)	Welland and Nene FRMP
Hogs Dyke, Raunds Refurbishment Project	EA will work with professional partners and the community to undertake a comprehensive review of the existing flood risk management assets, including the culverts, to understand the flood risk and investigate appropriate solutions to sustain the standard of service that they provide. (Map ref 6)	2019 - 2024	Not started, but not due	Scheme cost: £500k-£1M	Local Community, FCERM GiA and Partnership	EA (NCC, ENC, community)	Welland and Nene FRMP
Nether Heyford Flood Alleviation Scheme	A pre-feasibility study report undertaken in August 2008 concluded that Nether Heyford is at risk of flooding from Heyford Brook due to insufficient capacity of the drainage system. EA will continue to work with professional partners and the community to manage flood risk in for Nether Heyford. This will involve findings from the existing studies, comprehensive review of flood risk from the main rivers and investigation of appropriate solutions to manage this risk. (Map ref 7)	2015-2018, dependent upon FCERM GiA funding	Ongoing	Scheme Cost: approx £1.3M	Local Community, FCERM GiA, AWS, Partnership	EA (AWS, NCC, community)	Welland and Nene FRMP

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Nene Lock Reversal and Nene Structure Refurbishment Study	Study to investigate the requirement for Nene Lock Reversal and Nene Structure Refurbishment – may be required for Health and Safety. (Map ref 8)	2016 onwards	Not started, but not due	Unknown	FCERM GiA, Partnership	EA (LAs, NCC)	FCERM GiA funding bid
Welland and Nene Property Level Protection	EA and NCC will continue to work in partnership with residents to secure funding for the survey and instillation of property level protection measures to properties that are at high risk of flooding and have experienced recent flooding. The project will focus on properties where traditional flood risk management schemes could not be economically justified. Locations are likely to include: Scrivens Hill, Woodford Halse; High Street and Broughton Road, Pytchley; Burcote Fields, Towcester; Wappenam Road, Syresham; Warren Bridge, Oundle; Harts Lane, East Farndon; Whiston Road Cogenhoe; Grafton Underwood; Hellidon. (Map ref 9)	2015-2017	Ongoing	£250k	Local Community, FCERM GiA, AWS, partnership	EA (NCC, residents)	Welland and Nene FRMP
Wootton Brook Flood Alleviation Scheme	EA will work with professional partners and communities along Wootton Brook to develop and secure funding for a flood alleviation scheme. This will involve using findings from existing studies and additional work to undertake a comprehensive review of flood risk and investigating appropriate solutions to manage this risk. (Map ref 10)	2015	Ongoing	Scheme Cost: £1M	FCERM GiA	EA (NCC, developers, community)	Welland and Nene FRMP

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Harpers Brook Flood Alleviation Scheme	EA will work with communities and professional partners along Harpers Brook to develop and secure funding for a flood alleviation scheme. This will involve findings from existing studies, a comprehensive review of flood risk and investigation into appropriate solutions to manage this risk. (Map ref 11)	Dependent upon FCERM GiA funding, yet to be determined	Not started, but not due	£102k	FCERM GiA	EA (NCC, CBC, Community)	Welland and Nene FRMP
Harrowden Brook Flood Storage Reservoir Study	Study to investigate the potential opportunity for reducing flood levels downstream of the Castleridge site by enhancing the Harrowden Road flood storage reservoir in Wellingborough. This will facilitate future growth in the catchment. (Map ref 12)	Related to growth	Not started, but not due	Study Cost: £75k-£150k	FCERM GiA, Developer	BCW (NN JPU, NCC, EA, Developer)	NN FRMS
Swanspool Brook, Flood Storage Reservoir Study	A study into the Wilby Flood Storage Reservoir, which currently exists on Swanspool Brook in Wellingborough, located upstream of the A4500. The Flood Storage Reservoir has a standard of protection of 2% (1 in 50 likelihood). Further investigations are required to assess any options for improvement. This will facilitate future growth in the catchment. (Map ref 13)	Related to growth	Not started, but not due	Study Cost: £50k-£100k	AWS, BCW, NCC, EA	BCW (NN JPU, NCC, EA, Developer)	NN FRMS

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Corby Culvert – Sewage Works additional storage and vegetation clearance	Mitigation measures are required within Corby Borough to manage future flood risk and to facilitate development. Works are required near the sewerage treatment works to mitigate for a proposed increase in discharge, to accommodate new development by creating additional flood storage and vegetation clearance. (Map ref 14)	2016-2017	Ongoing	Scheme cost: £305k	CBC Developer funding	CBC (AWS, NN JPU, Developer, NCC, EA)	Corby Culvert – Water Cycle Strategy update
Flood Attenuation Measures for development in Northampton	Attenuation storage required to mitigate for surface water flooding and additional discharge into watercourses around Northampton because of future development. Schemes to be assessed by developers and details to be provided as part of the planning process. Schemes/locations include Waterside development at Brampton Branch and St Peter's Way, Becketts Park, Avon Nunn Mills Ransome Road, Southbridge West, Nene Meadows, and upstream between Weedon and Kislingbury. (Map ref 15)	Related to growth	Not started, but not due	To be determined	NBC, Developer, regeneration funding	NBC (NCC, JPU, AWS, EA, Developer)	Northampton CAAP drainage study and West Northants Water Cycle Strategy
Flood Attenuation Measures for Northamptonshire Sustainable Urban Extensions (SUEs) and Strategic Employment Sites (SESs)	Attenuation storage required to mitigate the impacts of the proposed development at each of the Sustainable Urban Extensions (SUEs) and the Strategic Employment Site (SES) in Northamptonshire. Schemes to be assessed by developers and details to be provided as part of the planning process.	Related to growth – as and when planning applications are submitted	Ongoing	To be determined	LAs, Developer, regeneration funding	LAs (NCC, AWS, JPUs, EA, Developer)	Northampton SFRA, NNJCS and WNJCS

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
West End, Silverstone Flood Alleviation Scheme	Improvements are required to the Church Street culvert situated downstream of properties in West End, Silverstone. Existing culvert new box to be replaced by new box culvert to increase capacity within the watercourse and benefit 12 properties by reducing flood levels, and property-level protection to be provided to one property downstream. (Map ref 16)	Completed July 2015	Complete	Scheme Cost: £347k (incl. long-term maintenance)	NCC as LLFA, FCERM GiA, Local Community	NCC (EA, Community)	FCERM GiA funding bid
Kings Sutton, Wales Street (Black Brook) Flood Alleviation Scheme	There are 17 properties at risk of flooding along Wales Street in Kings Sutton, which would benefit from a flood alleviation scheme on the Black Brook. Local embankment and floodwall works are likely to be most viable, but would be complex. The Black Brook in part could be re-aligned to the west to leave room for an earthen embankment on its old alignment. The watercourse draining Kings Court and the northern part of the village would have to be piped through the defence and provided with a flapped outfall. A pumping station may be required for coping with flows arriving behind the embankment works during flood locked conditions. (Map ref 17)	2015-16, subject to planning and funding	Ongoing	Scheme Cost: £215k	Local Community, FCERM GiA, EA, SNC	SNC (NCC, EA, Community)	FCERM GiA funding bid

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Kings Sutton Windsor Close Flood Alleviation Scheme	To alleviate the risk of flooding to properties at Windsor Close in Kings Sutton. Scheme will include a new culvert with additional capacity across Banbury Lane into a new ditch to Black Brook, and modified field levels behind Windsor Close to allow for additional storage and flood routing. (Map ref 18)	2014	Complete	Scheme Cost: £148k	SNC, Local Community, EA, FCERM GiA	SNC (NCC, EA, Community)	FCERM GiA funding bid
Chacombe Flood Alleviation Scheme Study	Chacombe Brook runs through gardens and there are many low-lying properties along the bank of the brook. The flooding from the brook is flashy. A means of resolution other than by watercourse improvements or attenuation is not feasible – due to the responsiveness of the catchment, individual property protection will not be effective. (Map ref 19)	Dependent upon funding	Not started, but not due	Scheme Cost: £123k	SNC, Local Community, FCERM GiA, EA	NCC (EA, SNC, Community)	FCERM GiA funding bid
Surface Water Flood Risk Improvement Works at Berry Lane, Wootton	Improve highways drainage in Berry Lane area of Wootton to reduce risk of flooding to properties. (Map ref 20)	Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £407k	NCC, FCERM GiA, AWS	NCC (SNC, AWS, EA, Community)	FCERM GiA funding bid
Surface Water Flood Risk Improvement Works at Hall Yard, Kings Cliffe	Improve highways drainage along Hall Yard, Kings Cliffe to reduce risk of flooding to properties. (Map ref 21)	Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £188k	NCC, FCERM GiA	NCC (ENDC, AWS, EA, Community)	FCERM GiA funding bid

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Surface Water Flood Risk Improvement Works at Cosgrove Road, Old Stratford	Poor highways drainage has resulted in surface water flooding of properties on Cosgrove Road. Improve highways drainage by installing new system along entire length of Cosgrove Road. (Map ref 22)	Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £308k	NCC, FCERM GiA	NCC (SNC, TW, EA, Community)	FCERM GiA funding bid
Surface Water Flood Risk Improvement Works at East Street, Long Buckby	Properties along East Street are at risk of flooding from agricultural runoff and surface water, a number have flooded internally. Improve highways drainage by installing new system along East Street and improve field drainage along back of properties. (Map ref 23)	PAR completion April 2017 Scheme - Dependent on FCERM GiA funding	PAR ongoing	PAR: £25k Scheme estimate: £504k	PAR: NCC, FCERM GiA, Local Levy Scheme: NCC, FCERM GiA, AWS	NCC (DDC, AWS, EA, Community)	FCERM GiA funding bid
Surface Water Flood Risk Improvement Works at Main Road, Shutlanger	Improve highways drainage to reduce the risk of flooding to properties, by upgrading existing antiquated system along Main Road. May also require some upgrade of culverts along watercourse. (Map ref 24)	Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £399k	NCC, FCERM GiA	NCC (SNC, AWS, EA, Community)	FCERM GiA funding bid
Surface Water Flood Risk Improvement Works at Woodland Avenue & Grosvenor Road, Barton Seagrave	The estate is currently drained by soakaways, which cannot cope with the volume of runoff, resulting in a risk of flooding to properties. Reduce the risk of flooding by improving highways drainage, installing new system throughout estate. (Map ref 25)	2014	Complete	Scheme estimate: £2815k	NCC, FCERM GiA	NCC (KBC, AWS, EA, Community)	FCERM GiA funding bid

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Flood Risk Improvement Works at Elmington A605	Surface water and agricultural runoff pose a risk of flooding to properties along A605, and regularly result in closure of this key highway route. Improve capacity of field drainage and small watercourses upstream of Elmington and downstream to the Nene. (Map ref 26)	Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £231k	NCC, FCERM GiA	NCC (ENDC, AWS, EA, Community)	FCERM GiA funding bid
Flood Risk Improvement Works at Duck End & Freeman's Lane, Denford	A small watercourse running through Denford has flooded properties, exacerbated by surface water runoff from agricultural land around the village. Improve watercourse capacity through Denford by providing attenuation storage upstream of Duck End. Informed by S19 Flood Investigation. (Map ref 27)	PAR completion April 2017 Scheme - Dependent on FCERM GiA funding	PAR ongoing	PAR: £25k Scheme estimate: £285k	PAR: NCC, FCERM GiA, Local Levy Scheme: NCC, FCERM GiA, AWS, community	NCC (ENDC, AWS, EA, Community)	FCERM GiA funding bid
Surface Water Flood Risk Improvement Works at Silver Street North, Chacombe	One property is regularly affected by poor drainage. Improve drainage capacity by installing culvert around property which could drain to a soakaway. (Map ref 28)	2014	Complete	Scheme estimate £25k	NCC, FCERM GiA	NCC (SNC, AWS, EA, Community)	FCERM GiA funding bid
Flood Risk Improvement Works at High Street, Charwelton	Surface water and an ordinary watercourse regularly flood Charwelton, resulting in internal property flooding and closure of a key highway route. Improve highways drainage by increasing capacity of existing culvert along High Street. Informed by S19 Flood Investigation. (Map ref 29)	Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £1,578k	NCC, FCERM GiA	NCC (DDC, TW, EA, Community)	FCERM GiA funding bid

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Blackmile Lane, Grendon Flood Risk Management Scheme	Blackmile Lane in Grendon has been flooded due to extreme volumes of runoff. Proposed to re-grade existing and create new drainage ditches. Informed by S19 Flood Investigation and completed Project Appraisal Report. Additional property level resilience measures may be required at additional cost. (Map ref 30)	Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £90k	NCC, FCERM GiA, community	NCC (BCW, AWS, EA, Community)	FCERM GiA funding bid
Sywell Flood Risk Management Scheme	Holcot Lane and Stonelea Road have flooded from agricultural runoff. Proposed to reinstate and upgrade field drainage. (Map ref 31)	Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £4k	NCC, FCERM GiA	BCW (AWS, EA, Community)	FCERM GiA funding bid
Flood Risk Improvement Works at Gainsborough Road, Corby	Replace NCC grilles at Gainsborough Road, Corby, to reduce risk of flooding to properties and the highway from the culverted ordinary watercourse. Informed by S19 Flood Investigation. (Map ref 32)	April 2016	Complete	£7k	NCC, CBC, FCERM GiA	NCC (CBC, Community)	LLFA
Flood Risk Improvement Works at Gainsborough Road, Corby	Replace AWS grille at Gainsborough Road, Corby, to reduce risk of flooding to properties and the highway from the culverted ordinary watercourse. Informed by S19 Flood Investigation. (Map ref 33)	May 2016	Ongoing	To be determined	AWS	AWS (NCC, CBC, Community)	LLFA
Flood Risk Improvement Works at Creaton Road, Hollowell	Investigate potential for works at Creaton Road, Hollowell, to reduce risk of flooding to properties from surface water. Informed by S19 Flood Investigation. (Map ref 34)	Dependent on FCERM GiA funding	Not started, but not due	To be determined, estimate £75k-£150k	NCC, FCERM GiA	NCC (DDC, AWS, Community)	LLFA
Flood Risk Improvement Works at Bedford Road, Northampton	Investigate potential for works at Bedford Road, Northampton, to reduce risk of flooding to properties and the highway from surface water. Informed by S19 Flood Investigation. (Map ref 35)	Dependent on FCERM GiA funding	Not started, but not due	To be determined	NCC, FCERM GiA	NCC (NBC, AWS, Community)	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Flood Risk Improvement Works at Weedon Bec	Investigate potential for works at Weedon Bec, to reduce risk of flooding to properties from surface water and culverted watercourses. Informed by S19 Flood Investigation. (Map ref 36)	Dependent on FCERM GiA funding	Not started, but not due	To be determined	NCC, FCERM GiA	NCC (DDC, AWS, Community)	LLFA
Flood Risk Improvement Works at West End, West Haddon	Investigate potential for works at West End, West Haddon, to reduce risk of flooding to properties from surface water and culverted watercourses. Works to include upgrading AWS system, installation of additional gullies and reprofiling of associated footway. Informed by S19 Flood Investigation. (Map ref 37)	2015	Complete	£314,000	NCC, FCERM GiA	AWS (DDC, NCC, Community)	LLFA
Flood Risk Improvement Works at Woodford Halse	Investigate potential for works at several locations within Woodford Halse, to reduce risk of flooding to properties from surface water and ordinary watercourses. Informed by S19 Flood Investigation. (Map ref 38)	PAR completion April 2017 Scheme - Dependent on FCERM GiA funding	PAR ongoing	PAR Cost: £25k Scheme estimate: £150-300k	PAR: NCC, FCERM GiA, Local Levy Scheme: NCC, FCERM GiA	NCC (DDC, TW, Community)	LLFA
Flood Risk Improvement Works at Stanford Road, Cold Ashby	Highway drainage improvement works at Stanford Road, Cold Ashby, to reduce risk of flooding to properties from surface water. (Map ref 39)	October – November 2015	Complete	Estimated at £185k	NCC	NCC (DDC, AWS, Community)	LLFA

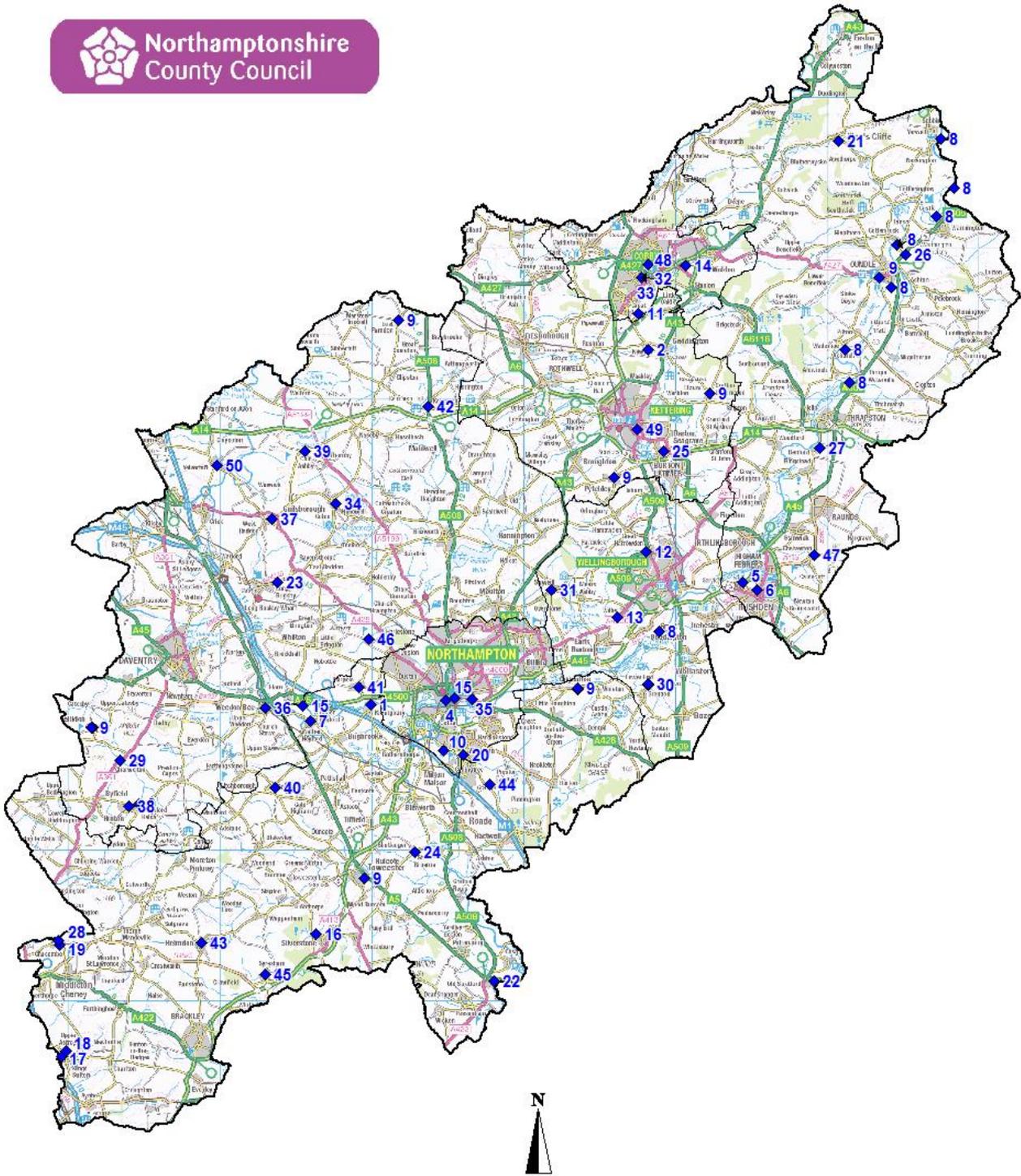
Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Flood Risk Improvement Works at Grimscote	Reduce risk of flooding to properties in Grimscote from surface water through bunding and culvert/channel improvements. Informed by S19 Flood Investigation and completed Project Appraisal Report. Additional property level resilience measures may be required at additional cost. (Map ref 40)	Scheme - Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £64k	NCC, FCERM GiA, community	NCC (SNC, Community)	
Flood Risk Improvement Works at Harpole	Investigate potential for works at Harpole, to reduce risk of flooding to properties from surface water and ordinary watercourses. (Map ref 41)	Dependent on FCERM GiA funding	Not started, but not due	To be determined, estimate £400k	NCC, FCERM GiA	NCC (SNC, Community)	LLFA
Flood Risk Improvement Works at Harrington Road, Kelmarsh	Investigate potential for works at Harrington Road, Kelmarsh, to reduce risk of flooding to properties from surface water. (Map ref 42)	Dependent on FCERM GiA funding	Not started, but not due	To be determined, estimate £80-170k	NCC, FCERM GiA	NCC (DDC, Community)	LLFA
Flood Risk Improvement Works at Helmdon	Reduce risk of flooding to properties in Helmdon from surface water through improvements to drainage ditches, raising sections of the highway and creating formalised flow routes. Informed by S19 Flood Investigation and completed Project Appraisal Report. Additional property level resilience measures may be required at additional cost. (Map ref 43)	2017	Ongoing	Scheme estimate: £59k	NCC, FCERM GiA, Local Levy, community, AWS	NCC (SNC, AWS, Community)	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Flood Risk Improvement Works at Quinton	Reduce risk of flooding to properties in Quinton from surface water through the formalisation of runoff channels and provision of property level resilience. Informed by S19 Flood Investigation and completed Project Appraisal Report. (Map ref 44)	Scheme - Dependent on FCERM GiA funding	Not started, but not due	Scheme estimate: £14k	NCC, FCERM GiA, community	NCC (SNC, AWS, Community)	LLFA
Flood Risk Improvement Works at Syresham	Reduce risk of flooding to properties in Syresham from surface water through reinstatement and regular maintenance of drainage ditches and formalisation of overland flow routes. Informed by S19 Flood Investigation and completed Project Appraisal Report. (Map ref 45)	2017	Ongoing	Scheme estimate: £51k	NCC, FCERM GiA, Local Levy, community, AWS	NCC (SNC, AWS, Community)	LLFA
Flood Risk Improvement Works at Port Road, Upper Harlestone	Investigate potential for works at Port Road, Upper Harlestone, to reduce risk of flooding to properties from surface water. Informed by S19 Flood Investigation. (Map ref 46)	Dependent on FCERM GiA funding	Not started, but not due	To be determined, estimate £90k	NCC, FCERM GiA	NCC (DDC, AWS, Community)	LLFA
Flood Risk Improvement Works at Chelveston	Investigate potential for works at Chelveston, to reduce risk of flooding to properties from surface water. (Map ref 47)	Dependent on FCERM GiA funding	Not started, but not due	To be determined, estimate £500-£900k	NCC, FCERM GiA	NCC (ENDC, AWS, Community)	LLFA
Flood Risk Improvements Works at Cottingham Road, Corby	Investigate potential for works at Cottingham Road to reduce flood risk. (Map ref 48)	Dependent on funding	Not started, but not due	To be determined	FCERM GiA	CBC (AWS, EA, Community)	Corby Flood Risk Management Study

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
East Brook Culvert, Kettering - Condition Survey	To review the current condition of the East Brook Culvert which runs through the length of Kettering and to determine the risk and extent of flooding to properties should the culvert fail, whilst determining necessary works and future responsibilities. (Map ref 49)	November 2016	Ongoing	£45k	Local Levy, AWS, EA, KBC, NCC	KBC (NCC, AWS, EA)	KBC
Kettering Rain Water Garden (SuDS) Schemes	To continue to review locations where rain water gardens can be implemented, to responsibly and positively discharge surface water in local communities without increasing the volume of water that discharges through artificial systems.	Ongoing	Ongoing	To be determined	KBC, Partnership	KBC (NCC, AWS, EA)	KBC
Flood Risk Improvement works at Yelvertoft	Reduce risk of flooding to properties in Yelvertoft from combination of main river and surface water flooding. Informed by S19 Flood Investigation. (Map ref 50)	2024	Not started, but not due	To be determined	FCERM GiA, Local Levy	EA (NCC, AWS, DDC)	EA
Objective 5 – Flood Risk and Development							
Minimise the increase in local flood risk that may arise from new development by producing guidance, setting standards, promoting the sustainable use of water and supporting the development of local policies and guidance, discouraging wherever possible surface water runoff in new and future developments and where possible influencing or supporting developments that seek to reduce existing flood risk							
The LLFA will set up a Statutory Consultee service to the planning application process for Surface Water Drainage	Northamptonshire County Council as LLFA will set up a Statutory Consultee service to the planning application process for Surface Water Drainage, to include the creation of local SuDS Guidance	15 th April 2015 onwards	Complete	£120k-£150k depending on the number of planning applications received.	Applicants, Defra, NCC	NCC (LAs, EA, JPUs, WaSCs, IDB)	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
The LLFA will create guidance leaflets in relation to flood risk	Create a series of leaflets/guidance notes, to assist in all forms of communications. Subjects to include: local sources of flood risk, flood risk and development, riparian responsibilities, WFD, insurance etc. Published on the Flood Toolkit at: http://www.floodtoolkit.com/pdf-library/	2015	Complete	N/A	N/A	NCC	LLFA
The LLFA will increase its knowledge and understanding of groundwater flood risk in the County and produce relevant guidance	The LLFA will continue to increase its knowledge and understanding of the extent of groundwater flood risk across the county. Produce guidance to assist planners and developers considering new development in areas, which may be at risk of groundwater flooding.	April 2016	Ongoing	N/A	N/A	NCC (EA, LAs)	LLFA
Objective 6 – Economically Sustainable Approach							
Ensure the financial viability of flood related schemes through the development of appropriate policies and assessment tools to ensure that flood risk management measures provide value for money whilst minimising the long-term revenue costs. Seeking to use natural processes where possible or source the costs of any maintenance from the financial beneficiaries of the development							
Funding arrangements	LLFA to continue to develop and establish short and long term funding arrangements to deliver the requirements of the Flood and Water Management Act. This to include bidding for relevant funding as and when the opportunity arises, to support future projects and flood alleviation schemes i.e. Flood Defence Grant in Aid funding.	Ongoing	Ongoing	To be determined	To be determined	NCC (IDB, LAs, Joint Delivery Units (where applicable and relevant), WaSCs, EA)	LLFA

Action	Aim/Benefits	Time Scale	Progress	Estimated Cost	Potential Funding Source	Lead and Partners	Source of Information / Further Ref
Influence funding arrangements	LLFA to ensure Infrastructure Development Plans, Community Infrastructure Strategies and Transport Infrastructure Plans are influenced by the LFRMS and that developer funding is sought where considered appropriate and necessary. When information or studies become available, any schemes, including their costs, will be identified and added to the Infrastructure Delivery Plan or Community Infrastructure Levy list.	Ongoing	Ongoing	To be determined	To be determined	NCC (IDB, LAs, Joint Delivery Units (where applicable and relevant), WaSCs, EA)	LLFA
Objective 7 – Riparian Responsibilities							
Encourage flood management activities by private owners of ordinary watercourses and flood defence structures as well as limit the development of constrictions on ordinary watercourses							
The LLFA will actively encourage Flood Risk Management activities by Riparian owners in highest priority wards	The LLFA will actively encourage Flood Risk Management activities by Riparian owners in highest priority areas. This will include making Riparian owners aware of their roles and responsibilities. Other flood risk management authorities will also use their permissive powers to reduce flood risk as appropriate.	Ongoing	Ongoing	N/A	N/A	NCC (LAs, EA, WaSCs, IDB)	LLFA



NCC Local Flood Risk Management Strategy - Action Plan
Potential Schemes, Investigations and Improvements

Drawn: RAB. Checked: JRB. Date: 05/09/2016

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- Legend
-  NCC boundary
 -  Borough and District boundaries
 -  Action