

Appendix E: Completed Actions

Action Name	Action Reference	Ward	Management Area	Action Description	Lead Partner	Other Partners	Risk source	Funding Source	Cost (£)	FMS Objectives				Progress
										1	2	3	4	
Parish Dykes	A	Several Wards	RW & U	Asset survey of Parish dykes	PCC	-	Ordinary watercourse	PCC	10 - 50 k	1				Completed
CPLRF	C	All	P-wide	Strengthen relationships within the Cambridge and Peterborough Local Resilience Forum	PCC	LRF		PCC, CPLRF	Staff-time		2			Completed
Staffing 1	D	All	P-wide	Creation of Flood and Water Management Officer post	PCC	-	All	PCC	10 - 50 k	1	2	3	4	Completed
Staffing 2	D	All	P-wide	Creation of a Drainage Team - recruitment	PCC	-	Surface water	PCC	50 - 100 k	1	2	3	4	Completed
Planning	D	All	P-wide	Improve consideration of drainage in planning considerations - greater involvement of PCC Drainage Team and raising awareness of future sustainable drainage requirements	PCC	-	Surface water	PCC	Staff-time	1				Completed
Training	D	All	P-wide	Training of Drainage Team and all council officers to be involved in sustainable drainage processes	PCC	-	All	PCC	≤ 10 k	1				Completed
Planning policy	D	All	P-wide	Development, adoption and implementation of Flood and Water Management Supplementary Planning Document as part of planning policy framework.	PCC	FloW Partnership	Main river & surface water	PCC	Staff-time	1			4	Completed
SuDS software	D	All	P-wide	Purchase new software to manage SuDS inspection and adoption process	PCC	-	Surface runoff, ordinary watercourse, groundwater	PCC	10 - 50 k		2			Completed
Land Drainage Consent	D	All	U & RW	Establish a Council system for approval of third party works on ordinary watercourses and raise awareness among planners and developers	PCC	-	Ordinary watercourse	PCC	Staff-time	1			4	Completed
Padholme	D	East	U & RNE	Put in place final processes for completing the conditions of the Padholme Catchment agreement	PCC	HCA, EA, NLD IDB	Main river & ordinary watercourse	Padholme Agreement (HCA)	Staff-time		2			Completed
Partnership creation	C	All	P-wide	Create Peterborough Flood Risk Partnership	PCC	FloW Partnership	All	PCC	Staff-time		2			Completed
RFCC input	C	All	P-wide	Strengthen the involvement of PCC in the Regional Flood and Coastal Committee - regular attendance, amended voting regime, officer attendance	PCC	EA	All	PCC, RFCC	≤ 10 k	1	2	3	4	Completed
Keep it Clear Central Ward	C	Central Ward	U	Reduce the chance of sewer flooding in Central Ward - Keep it Clear campaign, working with businesses and residents to keep fats, oils, greases and rag out of sewers.	AW	-	Foul sewer	AW	10 - 50 k	1		3		Completed
Keep it Clear Stanground	C	Stanground Central	U	Reduce the chance of sewer flooding in Stanground Central Ward - Keep it Clear campaign, working with businesses and residents to keep fats, oils, greases and rag out of sewers.	AW	-	Foul sewer	AW	10 - 50 k	1		3		Completed

Insurance	C	All	P-wide	Stay abreast of changes to the flood insurance situation; keep flood wardens up-to-date, develop procedure for residents with insurance queries and lobby with the RFCC for improvements.	FloW Partnership	-	All	PCC	Staff-time	1				Completed
Surface water maps	C	All	P-wide	Develop and publish first set of surface water maps on Environment Agency website (uFMfSW)	EA	-	Surface runoff	EA	50 - 100 k	1		3		Completed
Main River Map update	C	All	P-wide	Publish new format Main River flood risk maps on Environment Agency website	EA	-	Main river	EA	10 - 50 k	1		3		Completed
Flood Fair	C	West Ward	U	Work with Flood Wardens and community to put on a Flood Fair in Thorpe Meadows	Flood Warden(s)	FloW Partnership	All	EA, PCC, Community, Ramada Hotel	≤ 10 k	1		3		Completed
PCC flood and water website	C	All	P-wide	Keep Flood and Water website up-to-date and useful	PCC		All	PCC	Staff-time	1				Completed
SuDS website	C	All	P-wide	Develop new SuDS website (microsite)	PCC	-	Surface runoff, ordinary watercourse, groundwater	PCC	≤ 10 k	1			4	Completed
North Bank Highway Protocols	C	Eye and Thorney	RNE	Review of Highway Protocol document relating to closures of North Bank caused by flooding	PCC	EA	Surface runoff	PCC	Staff-time		2	3		Completed
FloW Partnership	C	All	P-wide	Change function of Peterborough Flood Risk Partnership to cover all water issues - becoming the Peterborough Flood and Water Management (FloW) Partnership	PCC	FloW Partnership	All	PCC	Staff-time		2		4	Completed
ADA Demo	C	Eye and Thorney	RNE	ADA Demonstration Event to raise awareness of IDB roles and drainage capabilities and equipment	NLD IDB	FloW Partnership	Ordinary watercourse	NLD IDB, ADA, many other organisations	10 - 50 k	1				Completed
Werrington Brook	P	North Bretton, Walton, Werrington North, Werrington South	U	Werrington Brook Improvements Project - Feasibility Study	PCC	EA, WVP, WNC	Main river & surface runoff	WVP, EA, PCC	10 - 50 k				4	Completed
SWMP	P	All	P-wide	Improving baseline knowledge about surface water flood risk through the Surface Water Management Plan process - feeds directly into development of the Peterborough Flood Risk Management Strategy. Includes identification of partner roles, existing maintenance, hotspots, key actions required etc.	PCC	FloW Partnership	Surface runoff	Defra	10 - 50 k	1	2	3		Completed
Corporate Tactical Team	P	All	P-wide	Improve and implement internal emergency planning procedures across the Council - Establish a council Tactical Team of officers who can co-ordinate /prepare for any emergency	PCC	-	All	PCC	Staff-time					Completed
Red Cross support	P	All	P-wide	Develop relationship with the Red Cross to enable improved recovery procedures and facilities.	PCC	LRF	All	PCC	Staff-time		2			Completed
Flood wardens	P	All	P-wide	Increase the number of Peterborough flood wardens	PCC	EA	All	EA,PCC	Staff-time	1	2	3		Completed

Test emergency plans	P	All	P-wide	Carry out response exercises with other emergency responders and services	CPLRF	-	All	CPLRF	10 - 50 k		2			Completed
Whitecross subway	P	Ravensthorpe and Bretton North	U	Flood reduction scheme in Whitecross subway	PCC	-	Surface runoff	PCC	£5,000			3		Completed
Rural highway drainage assets	P	Several wards	RW & RNE	CCTV surveys of rural highway assets	PCC	-	Surface runoff, ordinary watercourse, groundwater	PCC	10 - 50 k	1	2			Completed
New England sewers	P	North Ward	U	Investigate and resolve flooding issues in New England - large scale cleanse of sewers along Lincoln Road and removal of tree roots from surface water sewer under A47	AW	FloW Partnership	Foul and surface water sewers	AW	10 - 50 k			3		Completed
Ham Lane ditch	P	Orton Waterville	U	Ham Lane ditch works	PCC	-	Ordinary watercourse	PCC, NPT	≤ 10 k			3		Completed
Upton highway drainage works	P	Glington and Wittering	RW	Jetting and cleansing of the highway drainage system, Church Walk, Upton	PCC	-	Surface runoff	PCC	≤ 10 k			3		Completed
Gully connection investigations	P	Several Wards	U	Investigations of problem gully lateral connections - various locations	PCC	-	Surface runoff	PCC	≤ 10 k	1				Completed
CCTV and root cutting various	P	Several Wards	P-wide	CCTV and root cutting, cleansing at Cannons Barn Farm Lincoln Road Werrington, Rectory Lane Etton and Church Walk Marholm.	PCC	-	Surface runoff, ordinary watercourse, groundwater	PCC	≤ 10 k	1		3		Completed
Monarch Avenue	P	Stanground Central	U	Monarch Avenue CCTV and cleansing	PCC	-	Surface runoff	PCC	≤ 10 k	1		3		Completed
Stewards House Drain	P	Eye and Thorney	RNE	Stewards House Drain surveys, investigation and scheme design	NLD IDB	PCC	Ordinary watercourse	NLD IDB, PCC	≤ 10 k		2	3		Completed
Parkway drains	P	Several wards	U	Major cleansing and de-rooting programme of parkway highway drains	PCC	-	Surface runoff	PCC	50 - 100 k	1		3		Completed
Nene measurement boards	P	West Ward, Central Ward	U	Nene measurement boards at Thorpe Meadows and Town Bridge	PCC	-	Main river	PCC	≤ 10 k	1				Completed
Dams Pond de-silt	P	West	U	De-silting of Dams Pond	PCC	-	Ordinary watercourse	PCC	10 - 50 k			3		Completed
Racecourse Drain	P	East	U	De-silting culverted and open sections of Racecourse Drain - two phases	PCC	-	Ordinary watercourse	Padholme Agreement (HCA)	50 - 100 k			3		Completed
Hampton investigations	P	Orton with Hampton	U	Investigations into foul sewer issues and first phase implementation measures related to resilience of pumping station control panel	AW	-	Foul and surface water sewers	AW	10 - 50 k			3		Completed
North Ward flood alleviation works 1	P	North Ward	U	Works to improve surface water drainage system on Welland Road, removing inadequate soakaway function	AW and PCC	-	Surface runoff	AW	≤ 10 k			3		Completed
North Ward flood alleviation works 2	P	North Ward	U	Works to improve surface water drainage system in Welland Close	AW and PCC	-	Surface runoff	AW	≤ 10 k			3		Completed

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APPENDIX F: Peterborough Flood Risk Management Strategy (FMS) Action Plan

Caveat: All schemes listed here will still need to gain business case approval before works can take place. See page 69 of the FMS for the full caveat.

KEY TO ACRONYMS

Management area	Fens U	Fens (rural north and east) Urban	P-wide	Peterborough wide	RW	Rural west
Organisations/partners	AW CCC EA FloW	Anglian Water Cambridgeshire County Council Environment Agency Flood and Water Management Partnership	IDBs MLC NCC NLD IDB	All Internal Drainage Boards Middle Level Commissioners Northamptonshire County Council North Level District IDB	PCC Peterborough DNA W&D IDB WVP	Peterborough City Council Future Cities Demonstrator project (Peterborough DNA) Welland and Deeping IDB Welland Valley Partnership
Funding source	AW AMP	Anglian Water Asset Management Plan	FDGiA	Flood defence Grant in Aid	WDGiA	Water Framework Directive Grant in Aid
Benefits to	A B C D	Agriculture Businesses Community amenities & public services Supports new development	E H I L	Efficiency of management Homes Infrastructure e.g. highways, power, water Better local knowledge/understanding for use in management, planning schemes and resilience, new development and insurance)	N	Natural environment (biodiversity, water quality etc)

Action Name	Action Ref	Ward	Management area	Action Description	Lead Partner	Other Partners	Time Frame	Funding source	Cost (£)	FMS Objectives				Benefits to	Priority	Progress
										1	2	3	4			
Maintenance	A1	All	P-wide	Continue current maintenance actions for watercourses, major assets and all other assets as identified in management chapter. Exceptions where new projects result in changes and improvements to operation.	All	N/A	Ongoing	All partners budgets and contractor frameworks	Maintenance frameworks			3		H, B, A, I, C	Very high	On-target
Proactive maintenance	A2	All	P-wide	Carry out additional proactive targeted maintenance based on incident and asset registers, forecasts and budgets.	All	N/A	2014 - 2015	All partners budgets and contractor frameworks	Maintenance frameworks			3		H, B, A, I, C	Moderate	On-target
Incident recording	A3	All	P-wide	Record flooding incidents occurring or occurred in Peterborough and keep an up-to-date incident database. Investigate incidents meeting PCC thresholds and plan appropriate future actions.	PCC	FloW Partnership	Ongoing	PCC in-house resources	Staff-time	1	2			H, B, A, I	High	Some obstacles
Partnership issue resolution	A4	All	P-wide	Resolution of the issues and incidents identified to FloW Partnership (these are the more complex, long lasting issues).	PCC	FloW Partnership	Ongoing	All partner in-house resources. Potential to need funding bids depends on the issue arising.	Unknown		2	3		H, B, A, I	Very high	In progress
Padholme Catchment	A5	East	Fens	Desilt Padholme Drain and carry out any necessary works to the pumping station and flood storage reservoir.	EA	PCC, NLDIDB	2015 - 2020	Maintenance funding from Padholme Catchment Agreement	50 - 100 k		2	3		H, B	Moderate	On-target
SAMPs	A6	All	P-wide	Review System Asset Management Plans (SAMPs) to determine appropriate levels of maintenance, taking into account the level of risk, funding and asset condition.	EA	-	2015 - 2020	EA in-house resources	≤ 50 k	1				E	Moderate	New

Asset register	A7	All	P-wide	Maintain and further develop partner asset register with yearly updates.	PCC	FloW Partnership	2014 - 2015	PCC in-house resources	≤ 50 k	1	2			E, L	High	In progress
Data plan	A8	All	P-wide	Prepare and implement data management plan for shared asset data to ensure data sets are kept up-to-date and used correctly.	PCC	FloW Partnership	2014 - 2015	PCC in-house resources	Staff-time		2			E, L	Moderate	In progress
PCC asset survey	A9	All	P-wide	Undertake full asset survey of all PCC key assets to inform local knowledge and feed into asset register. Prioritise and implement according to budget and deliverability.	PCC	N/A	2015 - 2020	PCC LLFA budget	≤ 50 k	1				E, L	Moderate	In progress
SW sewer surveys	A10	All	P-wide	Obtain additional data on the public surface water sewer network in priority areas to improve partner knowledge and aid scheme design.	AW	PCC	2020 - 2025	AW Business Plans AMP 6/7, PCC LLFA budget, joint funding bids	50 - 100 k	1				E, L	Low	New
Private assets	A11	All	P-wide	Gather mapping and condition information about private assets e.g. ordinary watercourses and small reservoirs to determine their risk level. Requires standardised framework for inspection findings.	PCC	Riparian owners	2020 - 2025	PCC LLFA budget / other stakeholder funds on case by case basis	≤ 50 k	1				L	Very low	New
Designation	A12	All	P-wide	Designate third party assets (natural or man-made structures or features) deemed to affect flooding. Agree on process, criteria for designation, evidence required, appeal system and protocol for enforcement.	PCC	AW, EA, IDB	2015 - 2020	PCC in-house resources	Staff-time	1				H, B	Low	New
Culverts and bridges	A13	Eye & Thorney	Fens	Work together to clarify ownership of culverts and bridges throughout IDB area with the aim of developing an efficient working plan to improve asset data and improve conditions.	PCC and NLDIDB	Other IDBs	2015 - 2020	IDB and PCC in-house resources	Staff-time	1	2	3		A, I	High	New
Peakirk pumping station	A14	Newborough	Fens	Investigate issues at Peakirk pumping station and resolve any mechanical issues.	AW	Peakirk Parish Council	2014 - 2015	AW AMP 5 / 6	≤ 50 k	1		3		C	Very high	In progress
Fletton and Woodston	A15	Fletton & Woodston	U	Investigation of sewer networks in Fletton High Street to update asset records and identify if improvements can be made to the existing routing of surface water.	AW	PCC	2015 - 2020	AW AMP 5 / 6	50 - 100 k	1		3		H, B	Moderate	In progress
Drainage district modeling	A16	Barnack, Eye & Thorney, Glinton & Wittering, Newborough, Northborough, Stanground Central, Stanground East	Fens	IDBs to model their drainage districts to get an updated idea of the standard of protection offered.	NLDIDB, W&D IDB, MLC	-	Ongoing	IDBs	50 - 100 k	1				L	Moderate	In progress
Resilient development	D1	All	P-wide	Define PCC approach to resilient development in planning, including clearer policy on exceedance flows and resilient construction in new and redeveloped buildings.	PCC	EA	2014 - 2015	PCC in-house resources	Staff-time				4	D	Moderate	New
SFRA	D2	All	P-wide	Review the Strategic Flood Risk Assessment including climate change impacts and critical drainage areas approximately every five years in line with the Local Plan review.	PCC	FloW Partnership	2015 - 2020	PCC strategic planning budget and EA in-house resources	≤ 50 k	1			4	D	High	New
SPD	D3	All	P-wide	Review Flood and Water Management Supplementary Planning Document approximately every five years in line with the Local Plan review.	PCC	FloW Partnership	2015 - 2020	PCC in-house resources	Staff-time	1	3	4		D	Moderate	New

Development management	D4	All	P-wide	Improved focus on surface water management and sustainable drainage through the Planning (Development Management) process including improved consultation with AW and IDBs.	PCC	FloW Partnership	2014 - 2015	PCC in-house resources	Staff-time	1	3	4	D	High	In progress
SAB	D5	All	P-wide	Implement the SuDS Approving Body (SAB) including setting out a clear process for SuDS adoption and maintenance. Promote the aims and requirements for SuDS and the SAB.	PCC	FloW Partnership, Developers	2014 - 2015	PCC in-house resources	Staff-time		3	4	D	High	On-target
WCS	D6	All	P-wide	Review the Water Cycle Study approximately every five years in line with the Local Plan review.	PCC	FloW Partnership, Developers	2015 - 2020	PCC strategic planning budget	50 - 100 k			4	D	Moderate	New
FloW Partnership	C1	All	P-wide	Communication across the FloW Management Partnership organisations and within PCC - continue 6-monthly external meetings, and regular internal meetings, monitor progress against action plan and objectives, and establish sub groups as required.	PCC	FloW Partnership	Ongoing	All partner in-house resources	Staff-time	1	2		E, L	Very high	On-target
Council website	C2	All	P-wide	Ensure water and flood risk information is available on the City Council water website and it is useful and up-to-date. Implement and maintain new SuDS website.	PCC	Communities and developers	Ongoing	PCC in-house resources	Staff-time	1			E, L, C	High	On-target
Co-ordinate engagement	C3	All	P-wide	Undertake and co-ordinate appropriate engagement activities to promote greater awareness of flood and water-related management in Peterborough. Involve community groups in the establishment of campaigns.	FloW Partnership	-	Short	PCC in-house resources	Staff-time	1			E	Moderate	New
Flood awareness	C4	All	P-wide	Deliver targeted community engagement to encourage people to be flood aware, to sign up to receive flood warnings and to understand what action to take to protect themselves on receipt of a warning. Continue to promote and use the EA's Floodline Warnings Direct service but also investigate other warning and engagement tools related to surface water flooding or different types of social media. Learn from the outcomes of the Northamptonshire County Council pathfinder project and implement recommendations as appropriate.	EA and PCC	FloW Partnership	2015 - 2020	EA budgets and PCC LLFA budget	≤ 50 k	1			H, B, C, L	Moderate	New
Community involvement	C5	All	P-wide	Engagement campaigns encouraging community involvement in managing rivers and the environment. Includes working closely with RiverCare groups in Peterborough and with landowners, as well as generally raising awareness of riparian responsibilities.	FloW Partnership	RiverCare, landowners, communities	2015 - 2020	PCC LLFA budget, AW AMP 6/7, Keep Britain Tidy (RiverCare), EA budgets	≤ 50 k	1	3	4	H, B, N, C, E, L	High	New
Keep it Clear 1	C6	Orton with Hampton	U	Keep it Clear: Campaign to encourage communities to help our work by playing their part in protecting the sewer network. This includes not disposing of fats, oils, greases and other non-flushables down the sink or toilets or putting anything into surface water drains in the road.	AW	PCC, Parish Council	2015 - 2020	AW AMP 6 and PCC LLFA budget	≤ 50 k	1	3		H, B, I, E	Very high	New
Keep it Clear 2	C7	Barnack, Glinton & Wittering, Newborough, Northborough	Fens	Keep it Clear: Campaign to encourage communities to help our work by playing their part in protecting the sewer network. This includes not disposing of fats, oils, greases and other non-flushables down the sink or toilets or putting anything into surface water drains in the road.	AW	PCC, Parish Councils	2015 - 2020	AW AMP 6 and PCC LLFA budget	≤ 50 k	1	3		H, I	High	New

Existing flood wardens	C8	Newborough, Orton Waterville, West	U, Fens	Maintain relationships with existing flood wardens.	PCC	EA	Ongoing	PCC and EA in-house resources	Staff-time	1	2	3		E, L	Very high	On-target
New flood wardens	C9	All	P-wide	Actively recruit more volunteers to the Flood Warden Scheme starting in priority areas. Provide annual training and relationship building event for all flood wardens and interested residents. Ideally would have one warden for each Parish area, subcatchment area or Ward.	PCC and EA	FloW Partnership	2015 - 2020	PCC LLFA budget and EA budgets/ in-house resources	≤ 50 k	1	2	3		E, L	Moderate	New
Sustainable water	C10	All	P-wide	Continue campaigns and projects promoting sustainable water to communities including Drop 20 water efficiency campaigns and RiverCare support (flood risk benefits come from general improvement in people's understanding of water management and their actions).	AW	EA, PECT, Keep Britain Tidy, PCC	2015 - 2020	AW AMP 6, EA budgets	≤ 50 k	1			4	H, B, N, L	High	Progress
Permeable driveways	C11	All	P-wide	Set up a campaign to discourage the paving over of drives and gardens with impermeable surfaces and raise awareness about the problems of urban creep.	PCC	AW	2015 - 2020	PCC LLFA budget	≤ 50 k	1		3	4	H, I	Moderate	New
Developer engagement	C12	All	P-wide	Continue and increase engagement with developers regarding surface water management through forums, website, pre-application advice and promotion of Supplementary Planning Document.	PCC	FloW Partnership	2014 - 2015	PCC in-house resources	Staff-time	1			4	D	Very high	In progress
Flood warnings	C13	All	P-wide	Flood forecasting/warning service: Maintain current services, undertaking reviews of community based flood warning areas after improvements to forecast models or post-incident performance analysis. This service is underpinned by maintenance of flow gauging station and rain gauges throughout the catchment. Links to be made to PCC and NCC's rain gauge projects.	EA	NCC, PCC	Ongoing	EA budgets	≤ 50 k					H, B	Very high	In progress
Utilities and infrastructure	C14	All	P-wide	Continued engagement with energy and water companies and other service providers about ensuring the resilience of infrastructure in Peterborough. Joint projects will be considered where appropriate.	PCC	EA, AW, UK Power Networks, Network Rail	Ongoing	PCC in-house resources. Potentially CIL if joint projects are identified.	Staff-time	1	2	3	4	I	Medium	In progress
MAFP	P1	All	P-wide	Update Cambridge and Peterborough Multi-Agency Flood Plan using new flood maps, incident database and SFRA mapping to identify priority areas.	PCC	LRF	2014 - 2015	PCC in-house resources	Staff-time	1	2			H, B, I, E, L	Very high	New
Severe weather system	P2	All	P-wide	Consider the use of a severe weather recording system to enable the LRF to be able to assess impacts on resources and budgets of extreme weather events.	PCC	LRF	2015 - 2020	PCC in-house resources / environment budget	≤ 50 k	1				E, L	High	New
Understanding the risk - Ortons	P3	Orton Waterville, Orton Longueville	U	Complete flood risk assessment from all sources, communicate to community and work with community to understand future options for resilience.	EA	PCC	2014 - 2015	EA budgets and PCC LLFA budget	≤ 50 k	1		3		H, B	Very high	Some obstacles
Welland flood banks refurbishment	P4	Newborough, Glington & Wittering, Northborough	Fens	Re-review Welland Cradge Bank Performance Review project using outputs from updated River Welland model. Include review of the operation of the Crowland and Cowbit Washes. Implement recommendations from review sustaining the standard of service provided. Opportunities to improve river corridor habitats and improve the ecological resilience of the Maxey Cut to extreme high and low flows will be included as part of this project.	EA	PCC, Lincolnshire County Council, W&D IDB, Communities, WVP, Welland Rivers Trust	2015 - 2020	FDGiA, WFDGiA, several other sources to be sought including CIL	5 m - 10 m			3	4	H, B, I, E, N, C, D	High	New

Middle Nene WFD and flood risk management project	P5	Outside Peterborough	RW	Develop project and secure funding to implement WFD measures that reduce flood risk to communities. Includes investigating use of gravel pits and reinstated wetlands to attenuate and store water; use of sustainable drainage systems to mitigate flow and pollution issues; modelling and mapping to quantify flood risk benefits; and investigating measures to mitigate the impacts of climate change.	EA	NCC, Natural England, CCC, PCC, landowners and community	2015 - 2020	FDGiA, several other sources to be sought including CIL.	> 10 m				3	4	H, B, I, N, C, D	High	New
Understanding the risk - West ward	P6	West	U	Continue to work with the community and Flood Wardens to develop understanding of the local river response based on river levels and local knowledge. Develop appropriate actions to manage the risks.	EA and PCC	Flood Wardens, community, Flow Partnership	2014 - 2015	PCC and EA in-house resources. Other sources of funding will be sought as appropriate.	≤ 50 k	1			3		H	High	In progress
Understanding the risk - Fletton & Woodston	P7	Fletton & Woodston	U	Work with the community to better understand flood risk in this ward, including the impact of combined sewers, and develop appropriate actions to manage the risk. Assess the modelling required to determine actual allowable discharge rates for sites discharging to Fletton Spring.	EA and PCC	Community, Flow Partnership	2015 - 2020	PCC and EA in-house resources. Other sources of funding will be sought as appropriate.	≤ 50 k	1			3		H, B	Moderate	New
Werrington Brook improvements	P8	Werrington North, Werrington South, Walton, North Bretton	U	Appraise options and develop detailed designs for water quality, habitat and flood risk improvements. Seek additional funding. Deliver community and business engagement schemes. Deliver in-channel improvements at various points along Marholm Brook and Werrington Brook.	EA and PCC	Werrington Neighbourhood Council, Welland Valley Partnership, Flow Partnership, Network Rail, local businesses and landowners	2015 - 2020	PCC LLFA budget, WFDGiA, FDGiA, WVP, AW AMP 6, CIL, other funding sources being sought such as community grants and business funding.	100 - 500 k				3	4	H, B, N, C, D	Very high	On-target
Brook Drain flood alleviation scheme	P9	North Bretton	U	Comprehensive review of system. Develop and secure funding for a flood alleviation and WFD improvements scheme linked to Network Rail's proposed works to Werrington Junction. Investigate the need for and improvements to be gained from changing the operation of the Werrington penstock at the confluence with Marholm Brook and Brook Drain. Investigate options for control of diffuse pollution.	EA	PCC	2015 - 2020	FDGiA, Network Rail, CIL, PCC LLFA budget, WFDGiA	500 k - 1 m				3	4	B, I, D, N	High	New
Paston Brook flood alleviation scheme	P10	North Ward	U	Comprehensive review of flood risk, investigating appropriate solution to manage the risk, which may include improving the A47 culverts on Paston Brook.	EA	PCC, AW	2015 - 2020	FDGiA, PCC LLFA budget, AW AMP 6	1 m - 5 m				3		H, I, N	Moderate	New
Understanding the risk - Stanground Central	P11	Stanground Central	U	Work with the community to better understand flood risk in this ward and develop appropriate actions to manage the risk. Includes consideration of flow monitoring on the Lode, modelling to determine the actual allowable discharge rates for sites discharging to Stanground Lode, and removal of surface water from combined sewers.	Flow Partnership	Community	2015 - 2020	EA and PCC in-house resources. Other sources of funding will be sought as appropriate.	≤ 50 k	1			3		H, B, E	Moderate	New

Understanding the risk - Rivergate	P12	Central	U	Work with local businesses and partners to better understand the risk around Rivergate. Undertake additional mapping of sewers if needed. Determine whether further works are required. Link works in with highway improvements.	FloW Partnership	Local businesses	2020 - 2025	AW AMP 7 business plan, PCC LLFA budget, local businesses	≤ 50 k				3	B	Low	New
River Nene structure automation	P13	East, Fletton & Woodston, Glinton & Wittering, Orton Longueville, Orton Waterville, Stanground Central, West	P-wide	Review existing operational regime of river (flow) control structures along the main River Nene. Undertake automation of structures, where financially cost beneficial and feasible, to improve the speed of river regulation and minimise active intervention on site where possible.	EA	-	2015 - 2020	EA budgets	1 m - 5 m			2		E, I	Moderate	New
Peterborough adaptation plan	P14	All	P-wide	Develop a partnership adaptation plan for Peterborough to enable the City to be more resilient to changes in severe weather, climate, resource availability etc.	PCC	FloW Partnership, Environment Capital Steering Group	2015 - 2020	PCC environment budget and other sources of funding will also be sought.	≤ 50 k	1	2	3	4	H, B, A, I, N, C, E, L, D	Moderate	New
Rain gauges	P15	Barnack, Bretton North, Central, Dogsthorpe, East, Eye & Thorney, Fletton & Woodston, Glinton & Wittering, North, Northborough, Newborough, Orton with Hampton, Orton Longueville, Orton Waterville, Paston, Stanground Central, Werrington North, West	P-wide	Install rain gauge(s) in Peterborough to provide data for warnings and response, incident reporting and long-term records for use by schools and PCC.	Peterborough DNA	Local schools	2014 - 2015	Peterborough DNA, PCC LLFA funding	≤ 50 k	1	2			E, L	Moderate	New
Paston Ward flood alleviation scheme	P16	Paston Ward	U	Work in partnership with the community to better understand the risk in this area and to develop options for reducing surface water flood risk. Consider retrofit of sustainable drainage systems and an outlet in the embankment. Implement preferred option.	PCC	AW, community	2015 - 2020	PCC, AW AMP 7 business plan	50 - 100 k				3	H	High	New
Stewards House Drain	P17	Eye & Thorney	Fens	Undertake capacity improvement works to Stewards House Drain	NLDIDB	PCC, local school, Parish Council	2014 - 2015	FDGIA, NLD IDB budget, PCC LLFA budget, local beneficiaries	≤ 50 k				3	H, B, C	High	On-target
Counter Drain flood resilience scheme	P18	East	Fens	Make the channel more resilient to pump failure and failure of the banks. Reduce the frequency of flooding.	Flow Partnership	Landowners	2015 - 2020	All riparian owners	100 - 500 k		2	3	4	A, I, N	High	Some obstacles

Wansford flood alleviation scheme	P19	Outside Peterborough, Glinton & Wittering	RW	Work with professional partners and community to develop and secure funding for a flood alleviation scheme. Involves a comprehensive review of flood risk and existing management assets and investigation of appropriate solutions to sustain the standard of service that they provide.	EA	CCC, NCC, Community, PCC	2014 - 2015	FDGiA, other funding to be sought	500 k - 1 m				3		H, B	High	On-target
Whittlesey Washes (Nene Washes) works	P20	Outside Peterborough	Fens	Improvement to banks of the Washes to reduce the changes of breach. Essential works under the Reservoirs Act, arising from the Whittlesey Washes Probable Maximum Flow study and the section 10 Inspection Report. Includes work to Stanground green wheel cycle route.	EA	NLD IDB, PCC, CCC	2014 - 2015	FDGiA, local levy, NLD IDB, local beneficiaries	> 10 m				3		H, B, A, I, D	Very high	In progress
City centre combined sewers	P21	Central, West	U	Upon redevelopment of sites or significant highway improvements consider partnership projects in the surrounding areas to remove surface water completely from the combined sewers.	PCC	AW, developers	2015 - 2020	CIL, new PCC capital budget, developers, AW AMP 6 and 7	100 - 500 k				3	4	H, B, I, E	High	New
Understanding Ravensthorpe	P22	Ravensthorpe	U	Exercise to understand why Ravensthorpe scores highly in the climate change susceptibility work and plan for this accordingly with future actions.	PCC	FloW Partnership	2015-2020	PCC in-house resources	Staff-time				3	4	H, L	Moderate	New
City Council - sustainable water	P23	All	P-wide	Undertake a variety of measures to help deliver the Environment Capital Action Plan, by ensuring best use of natural resources and promoting protection of water environments (e.g reducing water consumption and minimising pollution).	PCC	-	2015 - 2020	PCC strategic resources, framework contractors or environment budget	Staff-time					4	E, N	High	In progress

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