

# Local Flood Risk Management Strategy Action Plan



## London Borough of Barnet LFRMS Action Plan

The Action Plan supports the delivery of the London Borough of Barnet LFRMS.

It is intended to be used by the Barnet Lead Local Flood Authority. **(FOR EXTERNAL USE)**

Version: 4.0

Last Updated: 07/08/2023

### LFRMS Strategic Objectives

- A** **Flood Resilience:** *Take action to reduce flood risk and avoid economic damages, while delivering wider environmental and social benefits.*
- B** **Engagement & Education:** *Engage and educate local residents and businesses to empower them to understand and reduce their own risk of flooding.*
- C** **Partnership Working:** *Establish and maintain collaborative partnerships with internal and external stakeholders to facilitate effective information-sharing and maximise joint-working opportunities.*
- D** **Development & Planning:** *Steer development away from flood risk areas to protect these areas and ensure future development is sustainable in the context of climate change.*

### Table headings/sections

Actions	Information relating to each action and associated objective.
Delivery	The proposed RMAs involved in the delivery of each action.
Programme	Proposed timescales for the action and each action's current status of progress.

### Items

Strategic Objective	Strategic objective letter as defined in the LFRMS document.
Action ID	The individual action ID value.
Action Details	Action description.
Lead Risk Management Authority	The organisation which will lead in the delivery of the action.
Partner Authorities / Departments	The organisations which will support the delivery of the action.

Timescale from 2022	The approximate time period for completing the action from the publication of the LFRMS, or if the action is an ongoing deliverable.	
Current Status	The current status of the action's progress in being completed.	
Links to Legislation / Policy	Hyperlinks to legislation that links to the delivery of this action. FWMA = Flood and Water Management Act 2010 NFCERMS = National Flood and Coastal Erosion Risk Management Strategy SWMP = Surface Water Management Plan (SWMP) Action Plan	
<b>Dropdowns</b>		
Timescale from 2022	Current Status	
Short-term=0-2 years	Red	Action is not currently in progress
Medium-term = 2-4 years	Amber	Action is in progress
Long-term = 4-6+ years	Green	Action completed
On-going = Continual action		

**Action Plan**

Refer to the 'Instructions' above for a description of the contents of the Action Plan

Actions			Delivery		Programme		Links to Legislation / Policy
Strategic Objective	Action ID	Action Details	Lead Risk Management Authority	Partner Authorities / Departments	Timescale from 2022	Current Status	
<b>A: Flood resilience</b> Take action to reduce flood risk and avoid economic damages, while delivering wider environmental and social benefits	A1	Continue to fund dedicated resources in the Flood and Water Management team within Highways.	Barnet LLFA		On-going = Continual action	Green	<a href="#">Barnet's Environment Committee Paper</a>
	A2	Maintain, apply and monitor this Action Plan to manage local flood risk across the Borough.	Barnet LLFA		On-going = Continual action	Green	<a href="#">Flood and Water Management Act - Section 9</a>
	A3	Encourage residents to continue recording flooding incidents to transform how the Borough better prepares and responds to flooding.	Barnet LLFA		On-going = Continual action	Amber	<a href="#">Report a flood   Barnet Council</a>
	A4	Provide efficient responses to flood incidents and emergency recovery following flood incidents such as the intense July 2021 flooding.	Barnet LLFA	Barnet Emergency Planning Team	On-going = Continual action	Amber	-
	A5	Regularly update a flood incident record log and map the incidents to understand the geography of flood risk across the Borough.	Barnet LLFA		On-going = Continual action	Amber	-
	A6	Conduct Section 19 investigations into flood risk when flooding in a given area exceeds the threshold, as set out in the LFRMS, and publish the results on Barnet's Flooding webpages (refer to Figure 2-1 of the LFRMS for the Section 19 flood investigation threshold criteria).	Barnet LLFA	Environment Agency Thames Water Barnet Highways Team	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - 19</a>

	A7	Continue to conduct maintenance of existing drainage systems by ensuring that gullies and drains are able to operate effectively.	Barnet Highways Team	Barnet LLFA	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Section 21</a>
	A8	Increase emergency preparedness by ensuring stock of flood blocks/barriers.	Barnet LLFA	Barnet Highways Team	Short-term = 0-2 years	New action	-
	A9	Establish and maintain a register of structures which are likely to have a significant effect on flood risk and a record of information about each of those features, including information about ownership and state of repair.	Barnet LLFA	Barnet Highways Team	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Section 21</a>
	A10	Compile a SuDS Portfolio to indicate where SuDS should be implemented across the Borough based on local topography, flood risk and local incidents reported.	Barnet LLFA		On-going = Continual action	Amber	-
	A11	Progress proposed flood alleviation schemes: Action for Silk Stream, CDA projects, Trash Screen Improvements and keep Barnet's Flooding webpages updated as to scheme advancements.	Barnet LLFA	Environment Agency Thames Water	Medium-term = 2-4 years	Amber	
	A12	Investigate potential locations, appraise nature-based solution options with CDA assessments (or explore other opportunities) to deliver at least one nature-based solution on the ground.	Barnet LLFA	Environment Agency	Long-term = 4-6+ years	Amber	<a href="#">Environment Committee Report FWM 8 March 2022 Final.pdf (modern.gov.co.uk)</a>
	A13	Identify and implement methods to maintain SuDS schemes, such as maintenance guidance and whole life cost plans.	Barnet LLFA		Medium-term = 2-4 years	New action	

	A14	Undertake option appraisal studies for at least the top six priority CDAs (subject to funding from external organisations) in Barnet to deliver detailed option appraisal. The CDAs are listed in Section 6.1.4 of the LFRMS.	Barnet LLFA	Environment Agency	Long-term = 4-6+ years	Amber	<a href="#">Environment Committee Report FWM 8 March 2022 Final.pdf (modern.gov.co.uk)</a> <a href="#">Critical Drainage Area (CDA) projects   Barnet Council</a>
	A15	Assess proposed schemes for social impacts and identify opportunities for improved engagement and scheme enhancement.	Barnet LLFA		Medium-term = 2-4 years	Amber	
	A16	Working closely with Building Control and Environmental Health teams to help resolve misconnections, improve the water quality of local watercourses and reduce pollution within these.	Barnet LLFA	Barnet Environment/ Climate Team	Long-term = 4-6+ years	New action	
	A17	Maintain and keep updated a list of potential flood risk management funding sources, including funding source, funding amount, timescales and requirements of the funding.	Barnet LLFA	Thames Flood Advisors	On-going = Continual action	Amber	
	A18	Work towards implementing SuDS in Schools across the Borough by applying for Department for Education (DfE) funding.	Barnet LLFA	DfE	Short-term = 0-2 years	New action	
	A19	Seek Grant in Aid capital funding via the Environment Agency for the delivery of flood alleviation studies to reduce the number of homes and businesses at risk of flooding.	Barnet LLFA	Environment Agency	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Section 16</a>
	A20	Work with the Environment Agency's Green Finance Taskforce to develop the skills needed to secure new and innovative funding for flood risk management.	Barnet LLFA	Environment Agency	Medium-term = 2-4 years	New action	

	A21	Investigate opportunities for Local Levy funding which can be granted via Thames Regional Flood and Coastal Committee (TRFCC) in respect of flood risk management functions.	Barnet LLFA	Thames Flood Advisors	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Section 17</a>
	A22	RMAs to contribute to improving the natural, built and historic environment by investing in projects that manage flood risk.	Barnet LLFA		On-going = Continual action	Amber	
	A23	Target investment to minimise the economic impacts of flooding, improve investor confidence and enable sustainable growth.	Barnet LLFA	Environment Agency	On-going = Continual action	Amber	
	A24	Develop Business Cases to deliver at least two CDA schemes on the ground (subject to funding from external organisations).	Barnet LLFA		Long-term = 4-6+ years	Amber	<a href="#">Environment Committee Report FWM 8 March 2022 Final.pdf (modern.gov.co.uk)</a>
<b><u>B: Engagement &amp; Education</u></b> Engage and educate local residents and businesses to empower them to understand and reduce their own risk of flooding.	B1	Publish the LFRMS on Barnet's Flooding webpages and include a link to the Action Plan, SEA and HRA for reference and inspection at all times.	Barnet LLFA	Barnet Website Development Team	Short-term = 0-2 years	Amber	<a href="#">Flood and Water Management Act - Section 9</a>
	B2	Ensure Barnet's Flooding webpages include detailed information about the different types of flood risk, roles and responsibilities of RMAs with flood risk management functions and supporting legislation, in line with GLA standardised template.	Barnet LLFA	Barnet Website Development Team	On-going = Continual action	Green	
	B3	Include within Barnet's Flooding webpages guidance informing residents and businesses of the actions they can take before, during and after a flood to increase their own resilience to flooding.	Barnet LLFA	Barnet Website Development Team	Short-term = 0-2 years	Green	

	B4	Publish details on what SuDS are and case studies on successful flood risk schemes on Barnet's Flooding webpages to promote the use of SuDS and educate residents on the multiple benefits.	Barnet LLFA	Barnet Website Development Team	Short-term = 0-2 years	Amber	
	B5	Make sure that it is clear within Barnet's Flooding webpages how residents and businesses can report flooding and why this is important.	Barnet LLFA	Barnet Website Development Team	Short-term = 0-2 years	Green	
	B6	Maintain an online survey for residents to report flooding, liaise with the appropriate RMA to address the flood incidents and keep the resident updated as to progress.	Barnet LLFA	Barnet Website Development Team	On-going = Continual action	Amber	
	B7	Host a drop-in session during London Flood Awareness Week annually. This is typically held in November each year.	Barnet LLFA	Barnet Communications Team	On-going = Continual action	New action	
	B8	Work with the Environment Agency to improve resident sign-up rate to the EA's flood warning service, particularly where residents are located within Flood Zone 3.	Barnet LLFA	Environment Agency	Short-term = 0-2 years	New action	
	B9	Prepare and provide emergency plans for flood warnings and alerts.	Barnet Emergency Planning Team	Barnet LLFA	On-going = Continual action	Amber	
	B10	Support an increase in resident uptake of property-level flood resilience and mitigation measures by working in conjunction with the finance sector, Flood Re and local communities.	Barnet LLFA	Flood RE ADEPT Triodos Bank Rivers Trust	Medium-term = 2-4 years	New action	
	B11	Develop a community engagement strategy to educate and encourage resident and business involvement in proposed flood alleviation schemes.	Barnet LLFA		On-going = Continual action	Amber	



	B12	Establish local flood groups within the community to encourage discussion around flood risk and to enable testing of local flood plans.	Barnet LLFA	Barnet Emergency Planning Team	Medium-term = 2-4 years	New action	
	B13	Collaborate with key stakeholders, such as Age UK, to improve the resilience of vulnerable community groups.	Barnet LLFA	Age UK Barnet Emergency Planning Team	Medium-term = 2-4 years	New action	
<p><b>C: Partnership Working</b> Establish and maintain collaborative partnerships with internal and external stakeholders to facilitate effective information-sharing and maximise joint-working opportunities.</p>	C1	Regularly review and update the list of internal and external RMAs, including names and contact email addresses.	Barnet LLFA		On-going = Continual action	Amber	
	C2	Establish and maintain contact with key external stakeholders, including the Environment Agency, Thames Water, TRFCC, TfL, Network Rail, GLA, DfE and local environmental organisations, such as 'Friends of' groups.	Barnet LLFA	Environment Agency Thames Water TRFCC TfL Network Rail GLA DfE	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Section 13</a>
	C3	Attend quarterly North-West London Partnership meetings and report discussion and outcomes to the Internal Flood Group.	Barnet LLFA	London Borough of Brent London Borough of Ealing London Borough of Harrow London Borough of Hillingdon London Borough of Hounslow	On-going = Continual action	Amber	

	C4	Attend quarterly TRFCC meetings and report discussion and outcomes to the Internal Flood Group.	Barnet LLFA	TRFCC	On-going = Continual action	Amber	
	C5	Set up and host quarterly Internal Flood Group meetings to maintain contact with Barnet internal service teams and to discuss progress on current flood alleviation schemes and collaboration opportunities for SuDS across the Borough.	Barnet LLFA	Barnet Internal Teams	On-going = Continual action	New action	
	C6	Collaborate with the Environment and Climate Change teams to include reference to SuDS within proposed Biodiversity Sustainability documents.	Barnet LLFA	Barnet Environment/ Climate Team	On-going = Continual action	Amber	
	C7	Collaborate with catchment partnerships, land managers and communities to mainstream the use of nature-based solutions.	Barnet LLFA	Tenants and Land Owners	Short-term = 0-2 years	Amber	
	C8	Work with RMAs, land managers and the community to identify opportunities to incorporate natural flood management in the Borough.	Barnet LLFA	Tenants and Land Owners	On-going = Continual action	Amber	
	C9	Encourage the development of engagement skills and capabilities to better support communities to manage and adapt to future flooding.	Barnet LLFA		On-going = Continual action	Amber	
	C10	Organise community events in Barnet to improve relations with communities, active resident groups and Thames21.	Barnet LLFA	Thames21	On-going = Continual action	Amber	<a href="#">Environment Committee Report FWM 8 March 2022 Final.pdf (modern.gov.co.uk)</a>
	C11	Review and improve the existing process of emergency preparedness, responding to flooding incidents and post-recovery to develop and share a case study.	Barnet Emergency Planning Team	Barnet LLFA Category One Responders	On-going = Continual action	Amber	<a href="#">Environment Committee Report FWM 8 March 2022 Final.pdf (modern.gov.co.uk)</a>

	C12	Share findings of the LFRMS with the Environment Agency to inform their Flood Risk Management Plans (FRMPs) and with Thames Water to inform their Drainage and Wastewater Management Plan (DWMP).	Barnet LLFA	Environment Agency Thames Water	Short-term = 0-2 years	Amber	<a href="#">Flood and Water Management Act - Section 9</a>
	C13	Improve collaboration between Barnet and neighbouring Boroughs for joint benefits on cross-boundary projects, such as the Action for Silk Stream project.	Barnet LLFA	London Borough of Camden London Borough of Haringey London Borough of Enfield London Borough of Brent London Borough of Harrow Hertsmere Borough	On-going = Continual action	Amber	
	C14	Share learning and best practice from flood risk management projects with other RMAs on working with communities to manage and adapt to future flooding.	Barnet LLFA		On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Section 13</a>
	C15	Invite RMAs to consult on flood risk management documents and consider their feedback when these require updates.	Barnet LLFA	Barnet Internal Teams	On-going = Continual action	Amber	
	C16	Work with the finance sector, Flood RE and other partners to increase uptake of property flood resilience in areas at highest risk and to 'build back better' after flooding.	Barnet LLFA	Flood RE ADEPT Triodos Bank Rivers Trust	Long-term = 4-6+ years	New action	

	C17	Establish and improve relations with key stakeholders to work together and develop at least one project at one of the key infrastructure flooding hotspots (subject to external funding).	Barnet LLFA		Long-term = 4-6+ years	Amber	<a href="#">Environment Committee Report FWM 8 March 2022 Final.pdf (moderngov.co.uk)</a>
<b>D: Development &amp; Planning</b> Steer development away from flood risk areas to protect these areas and ensure future development is sustainable in the context of climate change.	D1	Continue reviewing all proposals for major developments to ensure compliance with the Drainage Hierarchy (Policy SI 13 of the London Plan) through encouraging developers to store surface water in rainwater harvesting tanks or discharge via infiltration.	Barnet LLFA	Barnet Planning Team	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Schedule 3</a>
	D2	Ensure that the peak runoff rate does not increase due to development and that all runoff is first restricted to the greenfield 1 in 1-year runoff rate during all events up to and including the 1 in 100-year rainfall event, plus climate change.	Barnet LLFA	Barnet Planning Team	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Schedule 3</a>
	D3	Require developers to demonstrate that flooding will not occur up to and including the 1 in 100-year rainfall event (plus climate change) in any part of the proposed building and that flows resulting from rainfall in excess of the 1 in 100-year rainfall event (plus climate change) are managed in exceedance routes that minimise the risks to people and property (in line with S8 and S9 of Defra's Non-Statutory Technical Standards for SuDS).	Barnet LLFA	Barnet Planning Team	On-going = Continual action	Amber	<a href="#">Flood and Water Management Act - Schedule 3</a>
	D4	Develop and publish guidance on SuDS for use by developers, Council officers, residents and businesses.	Barnet LLFA	Barnet Planning Team	Long-term = 4-6+ years	Amber	<a href="#">Environment Committee Report FWM 8 March 2022 Final.pdf (moderngov.co.uk)</a>

	D5	Regularly review and update the West London SFRA with Barnet-specific policies to provide developers with the most updated information.	Barnet LLFA	Barnet Planning Team	On-going = Continual action	Amber	
	D6	Work with developers and planners to maximise the opportunities for flood resilience, adaptation and contribution to Net Zero while avoiding inappropriate development in areas at greatest risk of flooding.	Barnet LLFA	Barnet Planning Team Barnet Climate Emergency Group	Long-term = 4-6+ years	New action	
	D7	Improve place-making by designing places, buildings and infrastructure more effectively through retrofitting SuDS to bolster resilience to flooding.	Barnet LLFA	Barnet Planning Team Barnet Climate Emergency Group	Medium-term = 2-4 years	Amber	
	D8	Seek to reduce carbon emissions associated with new developments with the aim to make them carbon neutral in line with wider Net Zero targets.	Barnet Climate Emergency Group	Barnet LLFA Barnet Planning Team	Long-term = 4-6+ years	New action	