

**London Borough of Redbridge Surface Water Management Plan Action Plan**

This action plan is intended to be used by the Redbridge Lead Local Flood Authority (LLFA).

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

Version: 2.0

Last Updated: August 2023

ID	Action	Key Focus	Alignment to existing FRMP measure(s) (2022)	Priority Ranking	Timeframe	Action Type	Responsibility	
							Lead RMA/ Partner Organisation	Supporting RMA(s)/ Partner Organisation
1	Investigate repeat or significant flooding incidents which have occurred in Hotspots to determine potential cause(s) and create a list of recommendations for future actions.	Continue to carry out Section 19 Flood Investigations when the criteria are met. Undertake feasibility studies to identify viable solutions that could be considered for flood mitigation in areas of repeat or significant flooding incidents.		High	On-going	Investigation / Feasibility / Design	Redbridge LLFA	Internal Council Teams, Environment Agency, Thames Water, Neighbouring Borough LLFAs
2	Improve co-operation between authorities and other Risk Management Authorities in exercising Lead Local Flood Authority functions under the Flood and Water Management Act (2010).	Attending and contributing to key strategic meetings to share best practices and manage common flood risk management challenges. Identifying schemes which can be developed in collaboration with stakeholders	<a href="#">Measure ID 0214506003 'Establish engagement processes for members of the public and local stakeholders in Redbridge'</a>	High	On-going	Flood and Water Management Act	Redbridge LLFA	Environment Agency, Thames Water, Neighbouring Borough LLFAs, Transport for London, Greater London Authority
3	Identify potential funding sources for flood alleviation schemes and secure funding to enable delivery of schemes.	Maintain a list of potential funding sources to refer to when funding is needed. Develop good relationships with funding partners and set aside resource within the LLFA programme for progression of funding bids.		High	On-going	Financial / Resourcing	Redbridge LLFA	Internal Council Teams, Environment Agency, Thames Water, Neighbouring Borough LLFAs
4*	Perform an economic appraisal for each proposed mitigation option starting with the Hotspots that have a high priority ranking. Then revise the ranking given to reflect the economic viability of each mitigation option.	The economic appraisal should include a cost benefit analysis over the lifetime of the scheme. A programme should be produced outlining how and when viable schemes will be taken forward.		High	Short-term	Investigation / Feasibility / Design	Redbridge LLFA	Environment Agency
5*	If required, undertake flood risk modelling to better assess the benefits of the mitigation options starting with the Hotspots that have a high priority ranking.	Reviewing and updating when required any local flood risk modelling. Keeping up to date with changes to the Environment Agency surface water national model.		High	Medium-term	Investigation / Feasibility / Design	Redbridge LLFA	Internal Council Teams, Environment Agency, Thames Water, Neighbouring Borough LLFAs, Transport for London
6*	Perform opportunity mapping to identify highway and greenspace Sustainable Drainage System opportunities within Redbridge which contribute to flood risk alleviation.	The creation of ranked longlist and shortlist opportunity areas based on feasibility and cost.		Medium	Short-term	Investigation / Feasibility / Design	Redbridge LLFA	Internal Council Teams
7	Appraise mitigation options through cost/benefit analysis to develop funding applications and obtain funding in order to deliver the most viable options.	Choosing the highest priority, technically feasible and economically viable options to carry forward into funding applications.		High	Medium-term	Investigation / Feasibility / Design	Redbridge LLFA	Internal Council Teams, Environment Agency, Thames Water, Neighbouring Borough LLFAs, Transport for London
8*	Work closely with Thames Water to investigate opportunities to relieve pressure on the surface water sewer systems to allow them to work to their design capacity.	In collaboration with Thames Water, investigations should be carried out in order or risk ranking for Hotspots.		Medium	Short-term	Investigation / Feasibility / Design	Thames Water	Redbridge LLFA, Redbridge Highways Team

9	Seek out opportunities to integrate surface water flood risk reduction measures into all relevant local strategic plans.	Flood risk reduction measures should be considered where appropriate and embedded in strategic council plans. The Redbridge LLFA to engage with other internal departments to promote this.		Medium	Medium-term	Policy	Redbridge Planning Team	Internal Council Teams
10	Introduce Sustainable Drainage System retrofitting policies and incentives which seek to replace conventional drainage systems with green roofs, rainwater harvesting, rainwater reuse and green or blue attenuation as per the London Plan drainage hierarchy.	The Redbridge LLFA to engage with the Redbridge Planning Team and other internal departments to work collaboratively to deliver Sustainable Drainage System retrofitting within department programmes.	<a href="#">FRMP Measure ID 0214506002 'Work alongside internal Council teams to encourage and introduce retrofitting drainage designs, like swales and leaky dams, in Redbridge'</a>	Medium	Short-term	Policy	Redbridge LLFA and Redbridge Planning Team	Internal Council Teams
11	Improve collaboration between internal departments to identify and develop opportunities where surface water flood risk can be tackled outside of the regular LLFA duties.	The Redbridge LLFA to engage with internal departments to work collaboratively to tackle surface water flood risk. This could involve an internal flood action group or regular meetings to determine combined goals between teams.	<a href="#">FRMP Measure ID 0214506002 'Work alongside internal Council teams to encourage and introduce retrofitting drainage designs, like swales and leaky dams, in Redbridge'</a>	High	On-going	Communication / Partnerships	Redbridge LLFA	Internal Council Teams

12	Investigate the resilience of critical transport infrastructure across Redbridge to current and future surface water flood risk.	In addition to the asset register, develop and maintain a list of all critical infrastructure and work with relevant departments and Risk Management Authorities to ensure the resilience of this infrastructure in regard to current and future surface water flood risk.		High	Short-term	Investigation / Feasibility / Design	Redbridge LLFA	Internal Council Teams, Transport for London, Network Rail, National Highways, Utilities Companies
13	Provide training for Council officers in other departments to help increase partnership working through education about surface water flood risk and to improve public information.	Improve the knowledge on flood risk throughout the council in order to encourage connectivity with projects, every day tasks and with residents.		Low	Medium-term	Communication / Partnerships	Redbridge LLFA	Internal Council Teams
14	Identify opportunities to incorporate Natural Flood Management within LB Redbridge.	Identify suitable locations for Natural Flood Management and carry out investigations in order of risk ranking if they align with Hotspots.		Medium	Long-term	Investigation / Feasibility / Design	Redbridge LLFA	Redbridge Parks Team
15	Practice data sharing where possible with key stakeholders to improve knowledge of flood risk throughout the borough such as in flood risk mapping.	Share data with key partners to improve knowledge about surface water flood risk in Redbridge.		Low	On-going	Communication / Partnerships	Redbridge LLFA	Environment Agency, Thames Water, Insurance Industry Partners, Neighbouring Borough LLFAs, Internal Council Teams
16	Explore options for monitoring of flood risk alleviation schemes to improve knowledge on scheme outcomes, with the goal of improving future schemes.	Monitor and record outcomes from implemented flood alleviation schemes to contribute to future scheme development.		Low	Long-term	Investigation / Feasibility / Design	Redbridge LLFA	Internal Council Teams
<b>RAG Progress Tracker for Actions</b>								
<b>Red</b>		Actions which are not currently in progress and should be carried forward						
<b>Amber</b>		Actions which LB Redbridge are planning to conduct and should be actioned when appropriate						
<b>Green</b>		Action which LB Redbridge have completed						
<b>Blue</b>		Actions which LB Redbridge have already implemented and will continue to implement or strengthen their approach						
<b>Key</b>								
*		Completion of the action is dependent on the successful application for funding.						