

Bristol Local Flood Risk Management Strategy (LFRMS)

Matthew Sugden – Principal Flood Risk Officer



Growth and Regeneration

Flood Risk and Data Management

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Updated Citywide Flood Strategy

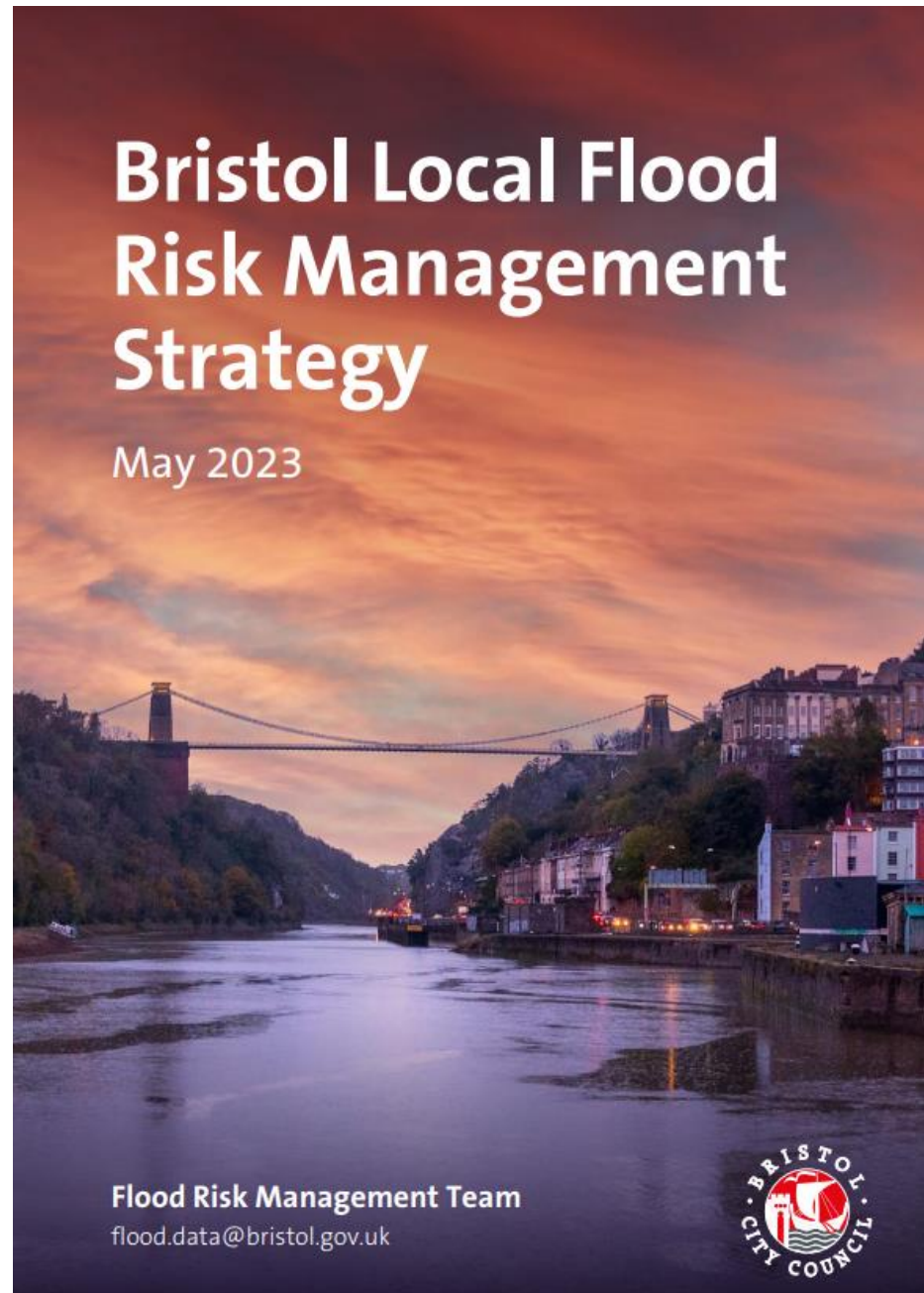
Statutory duty for BCC, as Lead Local Flood Authority for the city, to produce and maintain a LFRMS under the Flood and Water Management Act (2010)

Original version produced in 2014 with formal updates in 2018 and 2023

Provides an overview of all the flood risk management work undertaken between key partners in the city

Focuses on sources of Local Flood Risk including rainfall, groundwater and ordinary watercourses for which BCC has duties and powers

Presented to Scrutiny in March '23 and published in May



National Flood Strategy for England reflected in Bristol

National Strategy Ambitions

1. Climate resilient places

2. Today's growth and infrastructure – resilient in tomorrow's climate

3. A nation ready to respond and adapt to flooding and coastal change

Agreed Local Objectives

- Gain a greater understanding of the flood risks posed to Bristol and its people and places
- Promote sustainable development that seeks to reduce flood risk and includes consideration of climate change
- Actively manage flood risk infrastructure to reduce the likelihood of flooding causing harm to people and damage to society, the economy and the environment
- Increase public awareness and encourage communities to take action to manage the risks that they face
- Understand communities flooding concerns and priorities, and gather knowledge based on their perception of flooding
- Improve preparedness for flood events and post flood recovery

Interim update today on our progress against national strategy ambitions and local objectives

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Climate Resilient Places

Promoting sustainable development that seeks to reduce flood risk

Since April 2023 to date we have:

- Provided advice to the planning authority regarding flood risk and surface water drainage on 127 planning applications
- Secured a betterment on existing surface water management (rate and / or volume) on 82% of applicable applications
- Achieved water quality improvements or mitigation on 78% of applications

Partnership working is key to our success, and we continue to work with our neighbouring authorities, Environment Agency, sewerage undertaker and other risk management authorities to achieve shared outcomes.

Climate Resilient Places

Case study: Land South Of Freestone Road

Existing runoff rates:

Return Period	Rainfall Intensity (mm/hr)	Existing Runoff Rate (l/s)
1 year	52	60.94
30 year	123	143.51
100 year	151	175.95

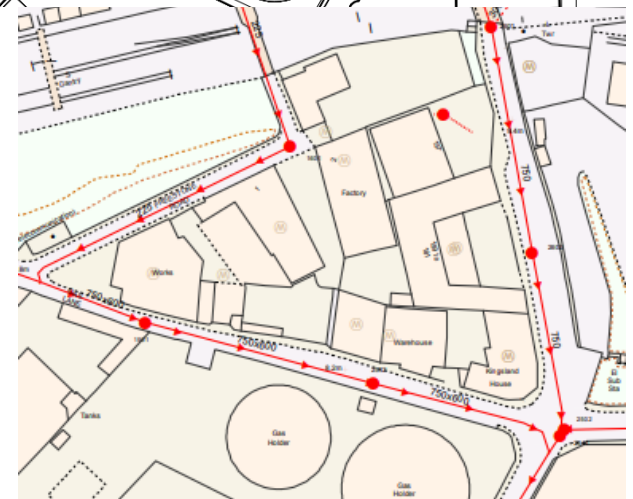
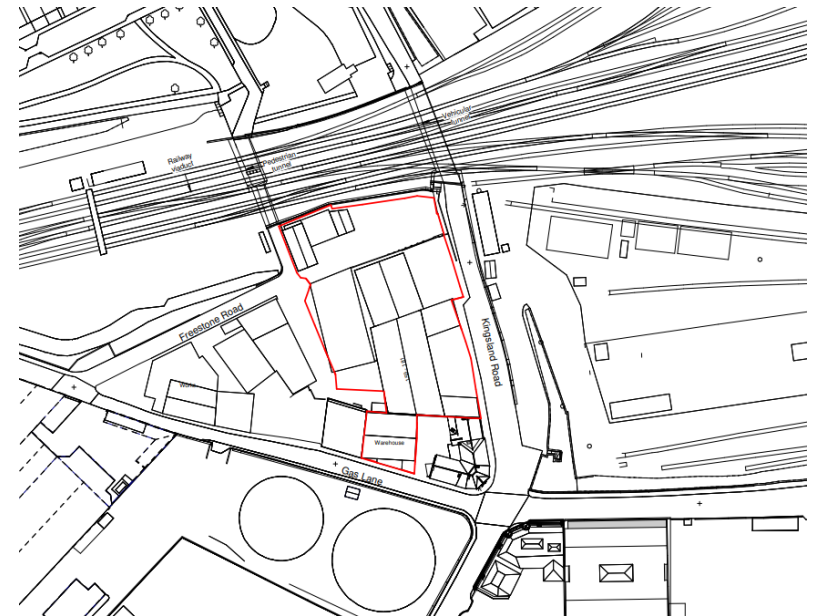
Developer proposed runoff rates: 30l/s

Secured runoff rate following objection: **6l/s**

Equates to a reduction of 97 pints of water every second

50,000 litres of water stored in a typical summer storm

Achieved through blue / green roofs and permeable paving to complement underground storage



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Today's growth and infrastructure – resilient in tomorrow's climate

Local plan review

Publication stage

The publication version of the new plan was agreed by Full Council on 31 October 2023.

BAFS Outline Business Cases nearing completion

New Local Plan policy FR2 – “Development in an area that benefits from a reduction in flood risk by the future delivery of the Bristol Avon Flood Strategy will be expected to:

- Facilitate the delivery of future flood defences and an enhanced multi-purpose greenway along the river Avon frontage including through financial contributions where appropriate”

Avonmouth Severnside Ecology Mitigation and Flood Defence project: construction of new wetland habitats and flood defences that better protects existing properties and supports sustainable development in the area



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A nation ready to respond and adapt to flooding and coastal change

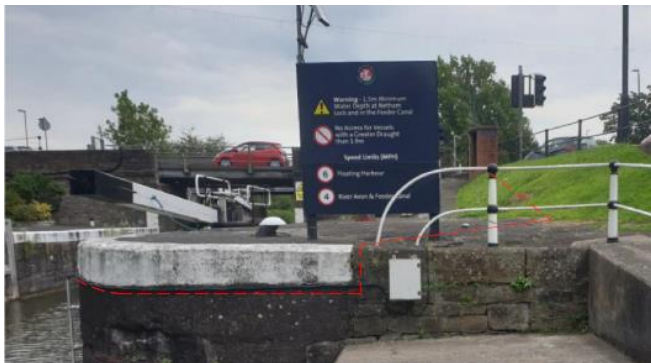
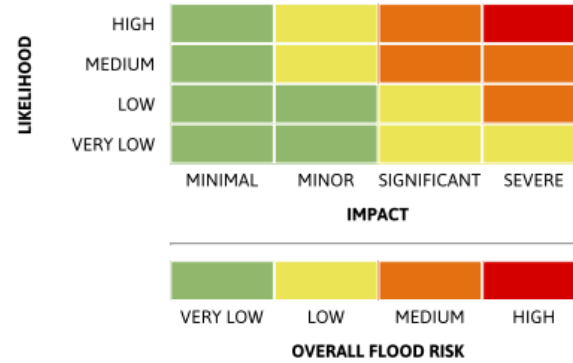
Bristol City Council

Flood Plan

July 2022



Flood risk matrix



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Bristol Local Flood Risk Management Strategy

May 2023



Thank you

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