

**Planning, Housing and Economic
Development Policy Development
and Scrutiny Panel
20 July 2015**

Bath Flood Alleviation Scheme
update

Introduction- 4 part presentation

- Overview of the drainage and flooding arrangements
- Bath Quays waterside Scheme
- Bath River Avon Options Study
- Local Flood Risk Management Strategy

The Act

Bath and North East Somerset Council is now the lead local flood authority and has a duty to co-ordinate local flood risk management



Flood and Water Management Act 2010

CHAPTER 29

CONTENTS

PART 1

FLOOD AND COASTAL EROSION RISK MANAGEMENT

1. Key concepts and definitions

- 1 "Flood" and "coastal erosion"
- 2 "Risk"
- 3 "Risk management"
- 4 "Flood risk management function"
- 5 "Coastal erosion risk management function"
- 6 Other definitions

2. Strategies, co-operation and funding

- 7 National flood and coastal erosion risk management strategy: England
- 8 National flood and coastal erosion risk management strategy: Wales
- 9 Local flood risk management strategies: England
- 10 Local flood risk management strategies: Wales
- 11 Effect of national and local strategies: England
- 12 Effect of national and local strategies: Wales
- 13 Co-operation and arrangements
- 14 Power to request information
- 15 Civil sanctions
- 16 Funding
- 17 Levies

3. Supplemental powers and duties

- 18 Environment Agency: reports

Other risk management Authorities

<u>Risk Management Authority</u>	<u>Strategic level</u>	<u>Operational level</u>
Environment Agency	National Strategy, reporting and general supervision	Main Rivers, Sea (flooding and erosion)
Lead Local Flood Authority	Local Strategy and investigations	Surface Runoff, Groundwater
District Council or IDB	Input to national and local strategies	Ordinary Watercourses, Sea (with EA consent)

Key B&NES Responsibilities


- Develop and monitor the local Flood Risk Management Strategy
- Duty to Maintain Register of Assets/ Features
- Recording and Investigation of all significant Flooding Incidents
- Local Surface Water Management Plans
- Consent Powers over Ordinary Watercourses
- Designation of assets to protect them from being altered or removed
- Statutory consultee for Sustainable Drainage Systems
- Flood Management Board

Wider responsibilities

- Managing drainage from the highway network
- Acting as the local Planning Authority
- Acting as the Emergency Planning Authority



Bath Quays Waterside: Flood Defence project (report pages 11 – 13)



BATH QUAYS WATERSIDE: MITIGATING FLOODING & RECONNECTING BATH TO ITS RIVER

**July 2015
Update**

**Bath & North East
Somerset Council**

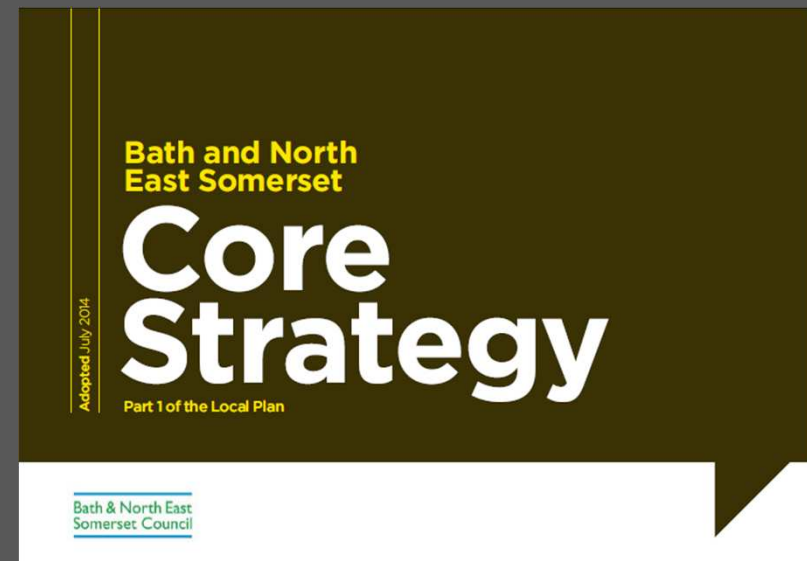


**Environment
Agency**

1.0 WHY ARE WE DOING IT?

Policy Framework

- Adopted Core Strategy
 - Pursue a low carbon and sustainable future in a changing climate
 - Protect and enhance the District's natural, built and cultural assets and provide green infrastructure
 - Encourage economic development, diversification and prosperity
 - Invest in our city, town and local centres
 - Meet housing needs
 - Plan for development that promotes health and well being
 - Deliver well connected places accessible by sustainable means of transport
- Key Bath development sites located on River Avon
 - Avon St
 - Newark Works
 - Manvers St
- Bath growth targets (net increase):
 - 5,700 jobs
 - 6,000 homes
- National Planning Policy Framework:
 - No adverse impact on flood risk to third parties
 - Safe means of access/egress in flood conditions



1.0 WHY ARE WE DOING IT?



Bath & North East
Somerset Council

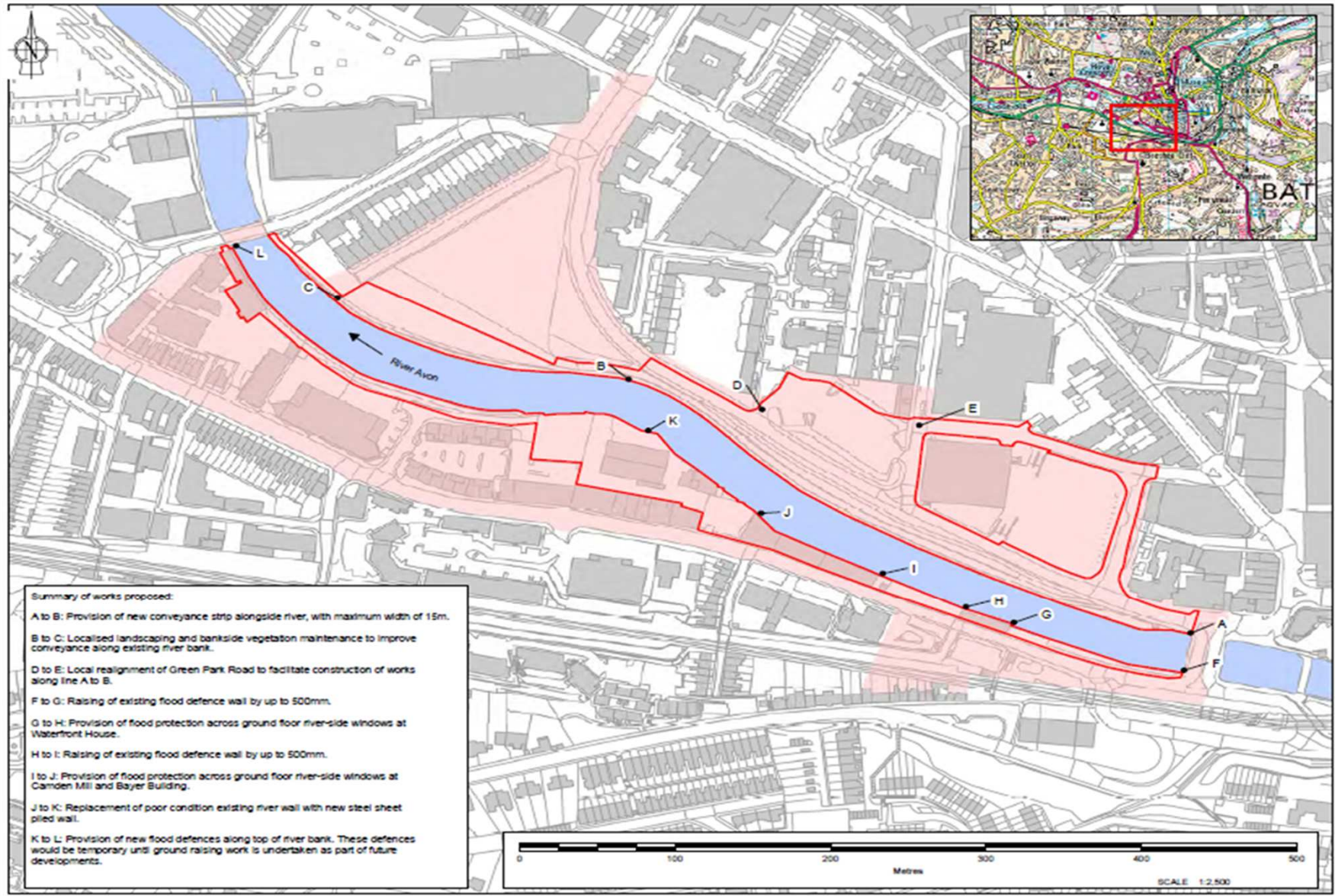
Working in Partnership

- B&NES:
 - Lead Local Flood Authority: manage flood risk from surface water and groundwater
 - Response to Core Strategy and NPPF
- ENVIRONMENT AGENCY
 - The River Avon is a Main River under our jurisdiction
 - reduce the risks to people, households and businesses from flooding
- TOGETHER
 - Pool resources (funding) to deliver where individually we could not
 - Improve defenses locally for existing assets at risk
 - Enable development that has not been possible in isolation

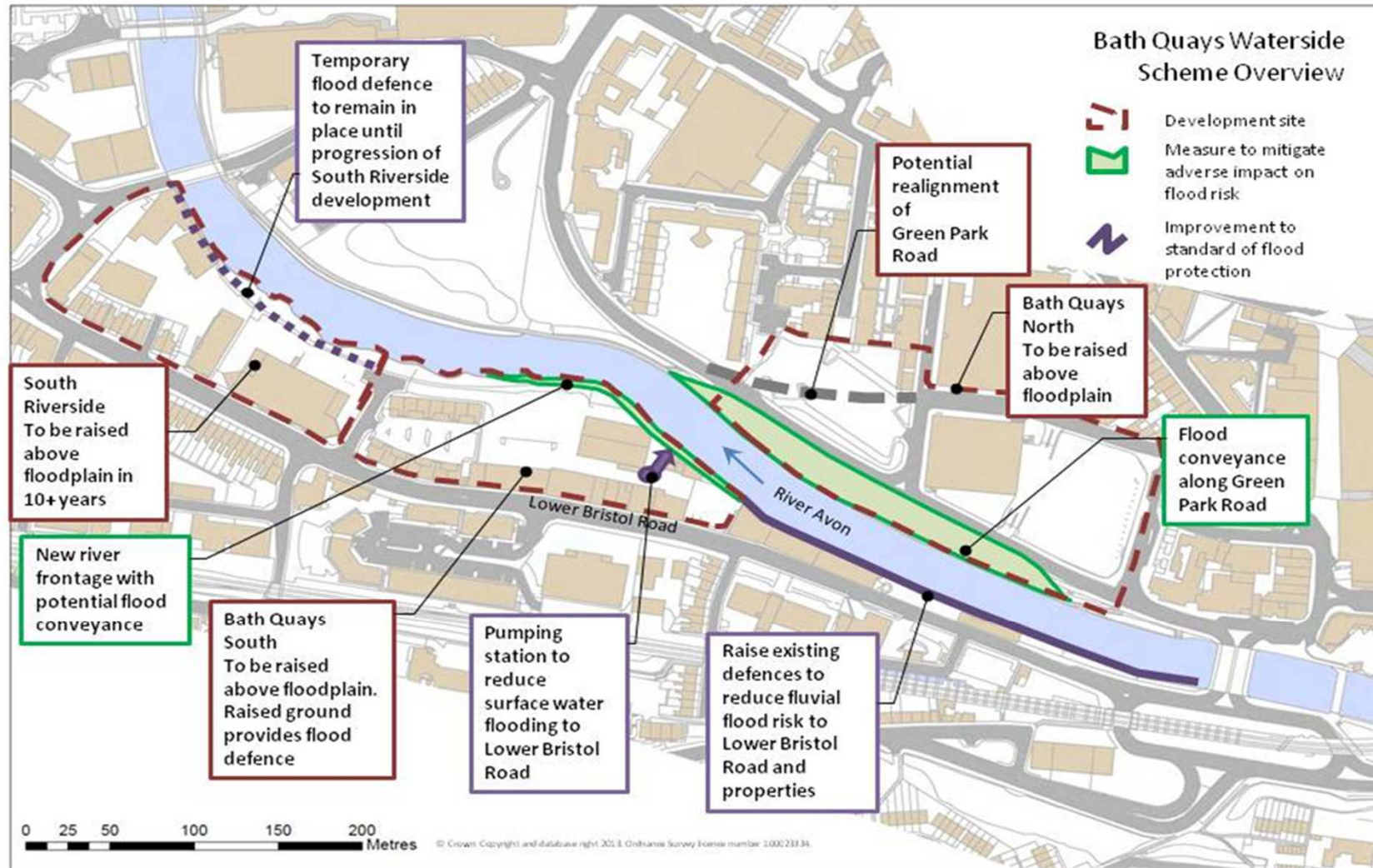


2.0 WHAT & WHERE IS IT?

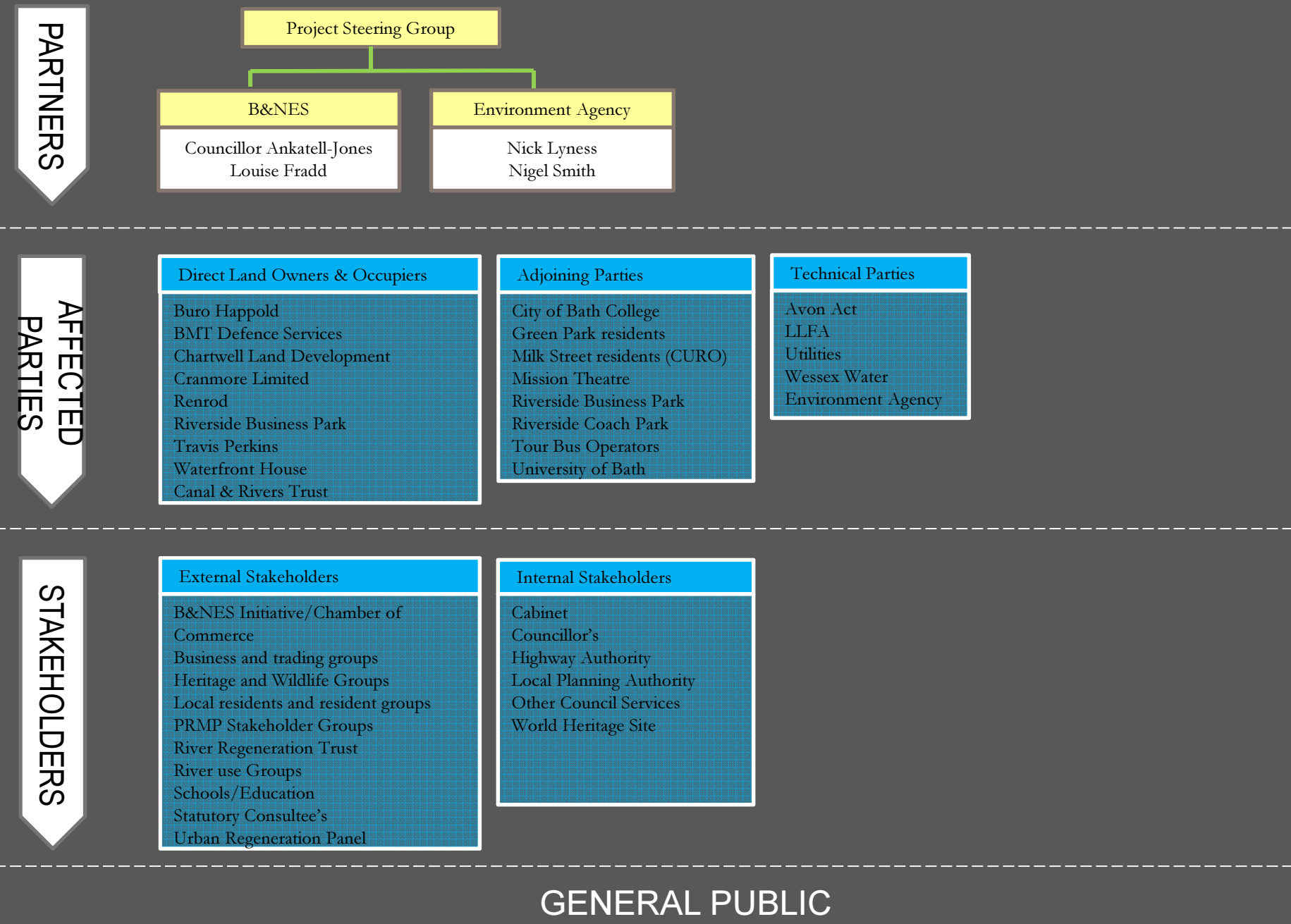
Bath Quays Waterside Project



3.0 BATH QUAYS WATERSIDE: THE PROJECT



4.0 BATH QUAYS WATERSIDE: Governance



4.0 BATH QUAYS WATERSIDE: What they said

Creative ambition: vision



BATH QUAYS WATERSIDE: THE PROJECT

Consented Scheme



04/08/15

4.0 BATH QUAYS WATERSIDE: THE PROJECT

Programme Milestones

PROJECT FEASIBILITY STAGE	
Feasibility Reports	July 2013
Development of Project Strategic Brief	July 2013
Client Sign Off (Gateway 3)	August 2013
PROJECT SCHEME DESIGN	
Pre-Application Consultation	September 2013
Scheme Design Freeze	May 2014
Planning Application Submission	August 2014
PROJECT DETAILED DESIGN	
Detailed Design	February 2014
Planning Determination	February 2015
Other Stat Consents (HA, EA, CRT)	February 2015
PROCUREMENT	
Construction Package Contracts Award	July 2015
CONSTRUCTION	
Pre-construction design and discharge of conditions	Dec 2015
Start on Site	Jan 2016
Construction Complete	Dec 2016

Detailed Information

<http://www.bathnes.gov.uk>

Search Bath Quays Waterside

Flood Risk Factsheet

Frequently Asked Q&A

Consultation Material

Plans and drawings

River Avon Options Study (report pages 15 -28)

Bath River Avon Options Appraisal Study

Nigel Smith
Flood & Coastal Risk Management Advisor
Wessex Area, Bridgwater
20 July 2015

Bath & North East
Somerset Council



Background information



- Bath is at risk of fluvial flooding from the River Avon. The 1960's Flood Alleviation Scheme reduces the risk to the city.
- There are approximately 500 properties at risk from the 1 in 100 year flood event (1% chance of occurring in any one year).

Background information



- Pulteney and Twerton sluice gates are important, but degrading assets as they have been in operation since the 1970's.
- If Twerton gates were to fail shut and coincide with a 1 in 100 year event this would increase flooding to approximately 246 properties.
- If Pulteney gate were to fail shut there is a minimal flood risk increase upstream.
- If the gate were to fail open there would be impacts on navigation, building/river channel foundations and biodiversity.

B&NES & EA partnership project

Objectives of the study

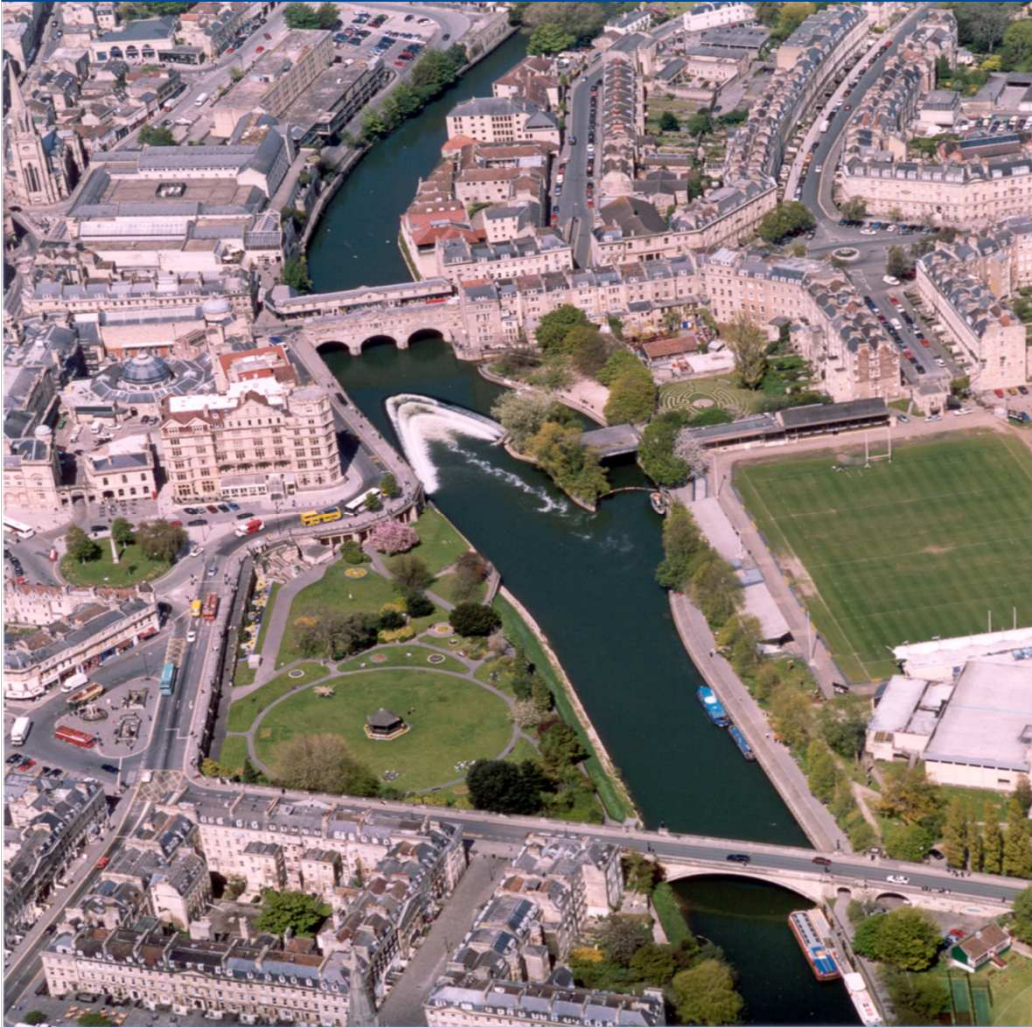
1. Investigating the current level of flood risk protection offered by Bath Flood Alleviation Scheme at a strategic level.
2. Considering the long term flood defence options for protecting Bath now and in the future when considering climate change.
3. To identify linkages with B&NES regeneration plans, which provides potential to deliver improvements that may not be possible through public funds.

Twerton Gate

1. Performs a vital role in alleviating flood risk in Bath
2. Any replacement scheme must focus on its flood risk function
3. Improvement works offer potential to reduce flood risk



Pulteney Gate



1. Hydraulic modelling has shown that the gate has minimal impact on flood risk in Bath.
2. Siltation upstream of the gate occurs locally but does not impact on flood risk.
3. Opportunities to improve amenity and aesthetics without compromising flood risk.
4. Further investigation and public consultation will be carried out.

Next Steps

- ➔ A decision on the final strategic option hasn't been made yet. This includes Pulteney gate.
- ➔ Following completion of this appraisal we will seek approval to continue with more detailed investigation and consultation.
- ➔ Condition assessment of both gates
- ➔ We are aiming to secure funding to progress this investigation next financial year.

Local Flood Risk Management Strategy

(report pages 29 -72)

Panel Questions & future reports?