Padiham Flood Scheme Overview
In partnership with the Padiham Town Centre Improvements

Will directly protect ~93 homes and ~70 businesses from a flood similar in size to the Dec 2015 event

£8.7 million whole-life cost
£65 million in direct economic benefits over 100-years from preventing flooding

2018: Funding secured for appraisal
2019: Funding secured for design & consultation
2020: Planning permission and funding for construction sought

Opportunities for wider habitat creation working with Burnley BC, Ribble Rivers Trust and Pendle Hill Landscape Partnership

Construction aiming to start in late-2020 (pending approvals, planning and funding)

All information subject to change
What are the timescales?

**Summer – Winter ‘18**
- Strategic stage completed. Flood walls and embankments to be appraised.
- Community drop-in events and feedback.

**Winter ‘18 – ’19**
- Detailed evaluation of proposals following community feedback.
- Environmental surveys and ground investigations.

**Spring ‘19**
- Completion of flood modelling, economic assessment and environmental impact.
- Changes to proposals: additional bridge modifications and highways drainage.

**Summer – Autumn ‘19**
- Additional funding for bridge and drainage work secured.
- Oct 7th community drop-in event and start of detailed design.

**Autumn ‘19 – Autumn’20**
- Detailed design, planning, permitting and consents.
- Landowner and stakeholder agreements.

**Autumn’20 – Winter ‘21**
- Secure Flood Defence Grant in Aid Capital funding for construction.
- **Construction** (Pending approvals of each of the above)

**Please note:** These are indicative timescales only and may be subject to change.
**What is the cost?**

Estimated Whole Life Cost: **£8.7 million**

Current contributions:

- **£4.4 million**  
  - Defra ‘Grant-in-Aid’ funding

- **£3 million**  
  - Local Growth funding secured by Burnley Council through the Lancashire Enterprise Partnership (LEP)

- **£1.3 million**  
  - Regional Flood and Coastal Committee

**Please note:** costs are current best estimates and will be refined as the detailed design progresses

*Defra Grant in Aid funding is secured in stages. Funding has only been secured and spent on appraisal and detailed design/planning.*
What are the current indicative outline proposals?

Several ramps and access points over the walls to the river

Riverside walks maintained and improved

Tree planting throughout wider Padiham

Removal and treatment of invasive non-native species (e.g. Japanese knotweed & Himalayan balsam)
Where and to what level will the defences manage flood risk?

The 2015 flood recorded flow of approximately 290 m³/s on the River Calder

The proposed flood defences will manage a flood of approximately 330 m³/s on the River Calder

= 1.3% chance of a flood occurring in any given year plus additions for climate change

The same Standard of Protection for the lower Green Brook

= 1.3% chance of a flood occurring in any given year plus additions for climate change

All information subject to change
What could the flood walls look like?

Cockermouth
(flood gates and access)

Warrington
(art work)

Carlisle
(setback walls do not disconnect path from river)
What are the current proposals ahead of detailed design and planning?
What are the current proposals ahead of detailed design and planning?

East of BAXI site

South of BAXI site
What are the current proposals ahead of detailed design and planning?

3. Lune Street / Bendwood Close

4. Waterside Mews

All information subject to change.
What are the current proposals ahead of detailed design and planning?

5. Waterside Mews / Town Hall

6. Green Brook / Waterside Mews

All information subject to change
What about maintenance activities?

- The Environment Agency cleared gravel and debris under Padiham Bridge in autumn 2018 and have been monitoring the gravel over 2019.
- The Environment Agency will be undertaking treatment and removal of invasive non-native species such as Japanese knotweed and Himalayan balsam.
- The flood scheme does not mean an end to maintenance activities in Padiham.
- In fact, over £400,000 of the whole life scheme costs are attributed to future maintenance.

Gravel build-up under Padiham Bridge 23/10/17

Cleared gravel under Padiham Bridge 10/12/18

Gravel monitoring 05/02/19
Why not just do gravel maintenance / river dredging?

- Gravel maintenance is currently undertaken when the quantity reaches ‘trigger level thresholds’. The last clearance was in Oct 2018.

- It is not a sustainable activity:
  - The gravel starts to build again soon after it is cleared so is not a passive management regime and can be costly.
  - It can impact on the environment, such as removing gravel that is vital for fish to use for spawning and migration.

- Gravel maintenance reduces water levels most during smaller floods.

- Gravel maintenance will not prevent big floods like the Dec 2015 event.

- Flood defences will prevent small floods meaning gravel maintenance will no longer be as critical on the River Calder.

- Gravel maintenance on the River Calder will still continue as required but will not be needed as frequently.

- Gravel removal will continue around Shakespeare Street Bridge on Green Brook. We are currently seeking funding to undertake maintenance here in the near future.
What about Flood Alerts and Warnings?

1) Flood Alert for the whole Calder
2) Flood Warnings for:
   i) The River Calder at Padiham
   ii) Green Brook & Sweet Clough

Flood Alert & Flood Warning trigger thresholds will be revised to higher levels once any flood defences are completed.

Flood Alerts mean, “be prepared, flood levels are high and/or forecast to rise”
- Flood Alerts can be issued based on river levels anywhere in the Calder catchment ranging from Padiham, Burnley, Nelson, Colne and Whalley.
- They can also be issued based on forecasted overnight impacts.

Flood Warnings mean, “start to act now, flooding is occurring or forecast to likely happen soon”
- Issue these based on forecasts for localised gauges to give you as much time as possible to act.
- Sometimes the forecasts change at the last minute so please do not get complacent by recent ‘false alarms’.
What about Flood Alerts and Warnings?

Flood Alerts and Flood Warnings can be found online at [https://flood-warning-information.service.gov.uk/warnings](https://flood-warning-information.service.gov.uk/warnings)

Or you can sign-up to receive direct Flood Alerts/Warnings by:

i) speaking to our staff
ii) Calling Floodline* on 0345 988 1188
iii) Visiting [https://www.gov.uk/sign-up-for-flood-warnings](https://www.gov.uk/sign-up-for-flood-warnings).

*Please note: there are may be charges for calling Floodline of up to 9p per minute from a landline at 3p to 55p per minute from a mobile. Check with your phone provider as some offer free calls to 0345 numbers.