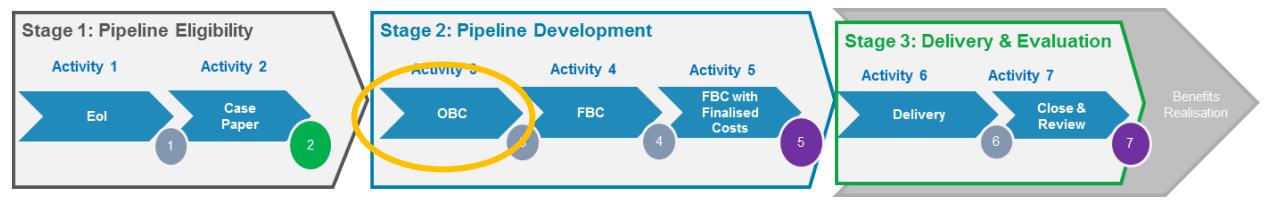


Section A: Scheme Summary

Name of scheme:	Hebden Bridge FAS
PMO scheme code:	
Lead organisation:	Environment Agency
Senior responsible officer:	Liz Courtney
Lead promoter contact:	Christian Merriman
Case officer:	Ian McNichol
Applicable funding stream(s) – Grant or Loan:	Growth Deal 3- Grant
Growth Fund Priority Area (if applicable):	Priority 4, Infrastructure for Growth
Approvals to date:	LCR Flood Alleviation for Growth Programme dp2 approval CA 29 th June 2017
Forecasted completion date (decision point 6):	June 2023
Total scheme cost (£):	£27.283 million
Combined Authority funding (£):	£1.900million
Total other public sector investment (£):	Flood Defence Grant in Aid: £3.955million / Calder Valley Booster funding, 2016 allocation: £13.026million / Calder Valley Booster funding, 2019 allocation: £5.327million / Local Levy: £835,000 ESIF (unsecured): £2.240million
Total other private sector investment (£):	N/A
Is this a standalone project?	No
Is this a programme?	No
Is this project part of an agreed programme?	Yes- Flood Alleviation for Growth Programme

Current Assurance Process Activity:



Scheme Description:

Hebden Bridge in Calderdale is a picturesque market town in an area of natural beauty, coupled with an industrial legacy of water powered weaving mills, which now have a negative impact on the local economy due to high flood risk.

The town is located at the confluence of two rivers in the Calder Valley: The River Calder and Hebden Water. It is a key economic area for the borough, with numerous boutiques, drinking establishments and eateries drawing many tourists to the town. In recent years, businesses and the local community have suffered multiple devastating flood incidents which have severely affected the local economy, most recently on Boxing Day 2015 where river levels on the Calder and Hebden Water reached their highest ever recorded levels and flooding was widespread throughout the whole of the Calder Valley.

This project will reduce the flood risk to 231 commercial properties, move a further 180 commercial properties to a lower flood risk band, and directly safeguard approximately 700 jobs. In addition, the scheme will better protect 183 homes, move a further 130 to a lower flood risk band and improve the resilience of the A646 road towards Mytholmroyd and the M62.

Hebden Bridge currently has a 20% risk of flooding (1 in 5) in any given year. The proposed scheme will reduce the flood risk in the town centre to a 2% risk of flooding in any given year (1 in 50) by installing new flood walls and increasing current wall heights through the town centre. The scheme is being designed to address all sources of flooding including fluvial, surface water and canal. The works are an integral part of the wider Hebden Bridge Flood Alleviation Scheme (FAS).

Business Case Summary:

Strategic Case

Hebden Bridge has a long history of regular flooding with records dating back to 1837. More recently, flooding has occurred in 2000, 2006, three times in 2012, 2013 and three times during the winter of 2015-16. The flooding on Boxing Day 2015 flooded 551 residential and non-residential properties. Flooding affected all major transport routes, some electricity supply, sewers and communications through Calderdale.

In response to the 2012/13 floods the Calderdale Flood Partnership (CFP), a multi-agency project led by the Environment Agency, was established. Its members comprised the Environment Agency, Calderdale Metropolitan Borough Council (CMBC), Yorkshire Water, the Canal & River Trust (CRT) and Network Rail. Work by the partnership delivered a feasibility study and outline design of a comprehensive flood alleviation scheme.

In 2017, the CFP launched the Calderdale Flood Action Plan, which includes an action to develop and deliver a flood alleviation scheme for Hebden Bridge by the end of 2021. Reducing flood risk is essential to

	<p>secure the future of Hebden Bridge as a place to live and work.</p> <p>The Flood Risk Management (FRM) investment in Hebden Bridge strongly aligns with local business strategies for the area, including the Calder Catchment Flood Management Plan and Calder Strategic Flood Risk Assessment and obligations under the Water Framework Directive (WFD), as well as a number of local action plans developed by community groups in the areas.</p> <p>The project is a good strategic fit with the Leeds City Region Strategic Economic Plan, the UK Industrial Strategy, the 25-year Environment Plan and local development needs.</p>
<p>Commercial Case</p>	<p>This scheme will significantly reduce the flood risk and improve business confidence.</p> <p>The appraisal was competitively tendered under WEM (Water & Environment Management Framework) Lot 3. Mott MacDonald were secured as the supplier in 2014.</p> <p>The PSC Option C contract for the detailed design was awarded to BMM under the WEM framework in July 2019.</p> <p>The construction contract will be let using an NEC4 ECC Option C form of contract with a target cost agreed between the EA and BAM.</p> <p>In addition to the contracts set out above there is a requirement for a number of supporting services, including a Cost Manager to support the Employer's Agent and Project Manager. The Project Manager will be appointed from the Client Support Framework and will undertake an independent check of the documents and provide expert advice to the project team. A Supervisor and Environmental Clerk of Works will also be appointed from the CSF.</p>
<p>Economic Case</p>	<p>The economic appraisal has been carried out in accordance with the Green Book and Flood and Coastal Erosion Risk Management- Appraisal Guidance (FCERM-AG), using methods and data from the Multi-Coloured Manual and Handbook. Climate change allowances were based on Adapting to Climate Change: Advice for Flood and Coastal Risk Management Authorities.</p> <p>Present value whole-life benefits and costs were estimated for a 100-year appraisal period. Climate change impacts were modelled using the central estimate for 2080s.</p> <p>Capital cost estimates have been provided through the Early Supplier Engagement contractor and Environment Agency Project Costing Tool, the post-construction costs have been calculated through the Environment Agency's long-term costing tool.</p> <p>The BCR has been calculated as 2.1 which shows good value for money.</p> <p>A short list of four options has been appraised, options 3 and 4 were both considered to be viable, however the increased benefits offered by option 4 (high containment through raising barriers alongside Hebden Water and structural modifications to existing third party owned buildings) mean that it was preferred.</p> <p>A GVA assessment will be developed as part of the full business case.</p>

<p>Financial Case</p>	<p>The total cost of the scheme is £27.283 million. The Environment Agency has secured £25.383 million (Flood Defence Grant in Aid and Booster Funding). The Combined Authority will provide development matched funding of £1.9 million from the £20 million Local Growth Fund allocation for the Flood Alleviation programme.</p>
<p>Management Case</p>	<p>The project will be managed by the Environment Agency's Programme and Contract Management team (PCM) in accordance with PRINCE2 methodology. The EA PM will have overall management of the project under the guidance of the Project Executive and Project Board. The EA PM will work with EA internal teams, including the National Environmental Assessment Service (NEAS), Partnerships and Strategic Overview (PSO), Assessment Performance (AP), Legal, Estates and Commercial alongside the contracted suppliers. The project team will also work at office level directly with Calderdale Council and other members of the Calderdale Flood Partnership (CFP), a multi-agency project led by the Environment Agency.</p> <p>The CFP Programme Board is responsible for overseeing the distribution of the Calder Valley Booster Funding. The Board comprises senior officers from CMBC, including the Director for Economy and Environment and the EA is represented on the board by the Project Sponsor. The Hebden Bridge FAS Project Executive reports quarterly to the CFP Programme Board, Project Sponsor and PCM Catchment Lead to ensure all parties have clear visibility of spend, programme, funding and project risks.</p>

