

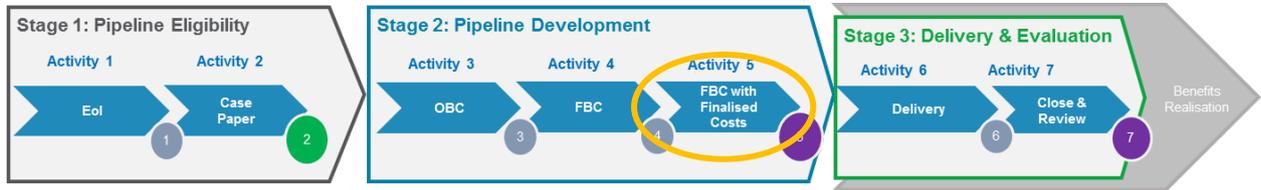
Section A: Scheme Summary

Name of scheme:	Flood Alleviation Scheme 2 (FAS 2) - Leeds
PMO scheme code:	GD-PA4-020
Lead organisation:	Leeds City Council
Senior responsible officer:	Martin Farrington, Leeds City Council
Lead promoter contact:	Rachael Brown, Leeds City Council Richard Dennis, Leeds City Council
Case officer:	Chris Brunold, Combined Authority
Applicable funding stream(s) – Grant or Loan:	Local Growth Fund – Grant – up to £3.9 million
Growth Fund Priority Area (if applicable):	Priority 4C – Integrated Flood Risk Reduction
Approvals to date:	The LFAS2 scheme received approval at outline business case from the Combined Authority on 25 April 2019 with an indicative allocation of £3.9 million.
Forecasted full approval date (decision point 5):	3 September 2019 Investment Committee
Forecasted completion date (decision point 6):	December 2022
Total scheme cost (£):	£76.39 million
Combined Authority funding (£):	Up to £3.9 million Local Growth Fund (LGF)
Total other public sector investment (£):	£65 million Defra and the Environment Agency (confirmed) £4.35 million Leeds City Council (confirmed) £540,000 ESIF for Stourton (confirmed)
Total other private sector investment (£):	£1.4 million Network Rail (confirmed) £1.2 million Woodland Trust (confirmed)
Is this a standalone project?	No
Is this a programme?	No

Is this project part of an agreed programme?

Yes - Leeds City Region Flood Alleviation Programme

Current Assurance Process Activity:



Scheme Description:

The Leeds Flood Alleviation Scheme Phase 2, Step 1 (LFAS2), is a major project which will reduce flood risk to homes, businesses and infrastructure along the River Aire in Leeds. Communities along this stretch of the river have taken several years to recover from the extensive damage and disruption caused by the major flooding on Boxing Day 2015. Had the flood occurred on a normal working day, the impacts would have been more severe. The flooding heavily affected a significant number of local businesses, a number of which have since failed or have relocated outside of the area.

LFAS2 is made up of two steps. Once both steps are complete, Leeds City Council's plans for managing current and future flood risk in the city from the River Aire will have been implemented and the city will be protected from up to a 1 in 200 year flood event.

Step 1 (which this business case represents, and which will provide 1 in 100 year protection) consists of works upstream from Leeds station to Newlay, including:

- Removal of redundant bridge at Armley Mills to improve flow
- Raising of Milford Place footbridge to remove the potential restricted flow
- Removal of the under-hanging structure at Redcote Lane bridge
- Widening the channel adjacent to the A65 between Wellington Bridge and Viaduct Road
- Construction of 7.5km of linear defences

Step 1 also includes natural flood management (NFM) works in the upper and mid-stretches of the River Aire from Malham to Armley including planting of circa 2 million trees, the creation of storage ponds, introduction of 'leaky dams' that act to slow river flow and finally re-meandering of the river in its upper rural reach.

Step 2 includes the construction of flood storage area at Calverley and improvements at Kirkstall Valley Nature Reserve.

Business Case Summary:

Strategic Case

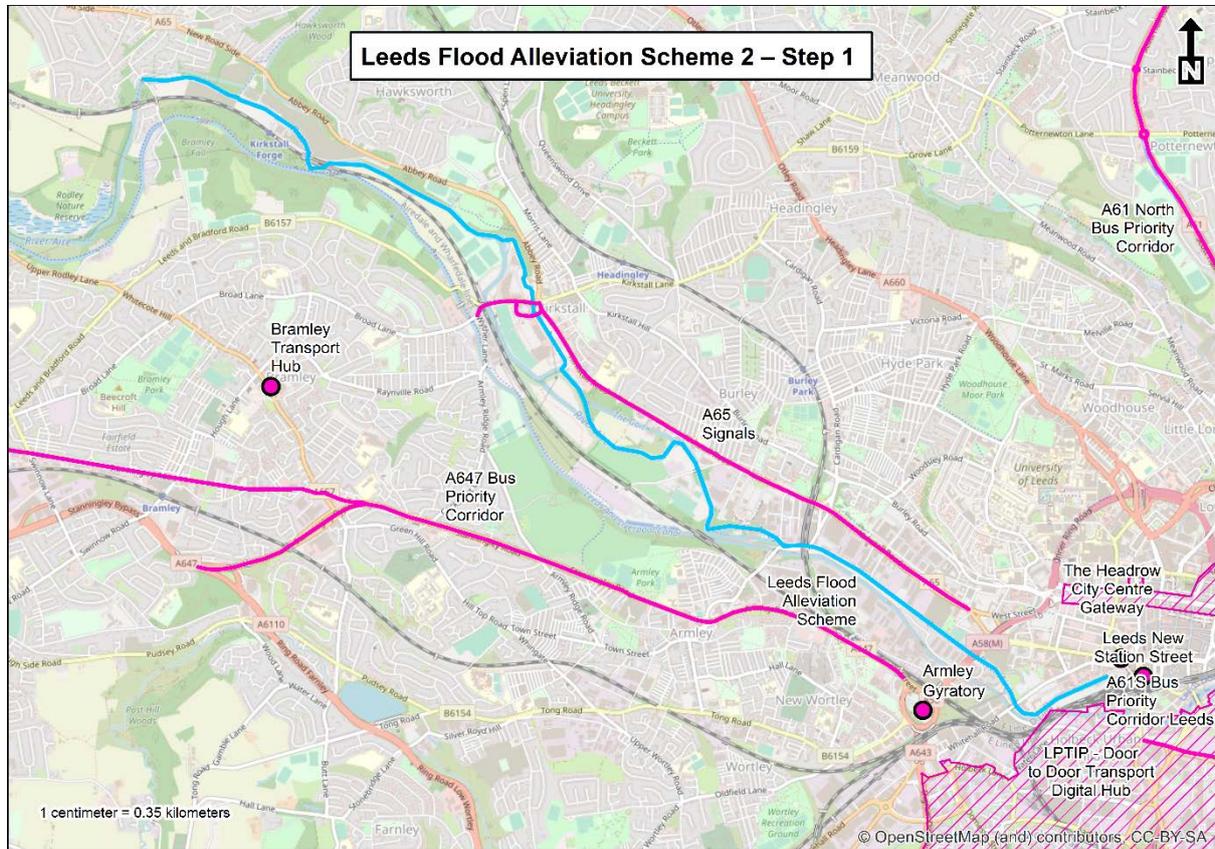
The evidence of the impact of the floods on Boxing Day 2015 was substantial and unprecedented in living memory. According to the Combined Authority's own research the estimated total economic losses across the region were £500 million, with a total of 2,000 businesses and 4,000 homes flooded. Calderdale and Leeds suffered the greatest impacts from this flood event.

	<p>The impact on businesses and communities was high, but would have been much worse had it been a normal business day rather than a bank holiday. If the city region is to achieve ambitious targets for jobs and additional GVA growth it needs to ensure that it retains and builds upon the jobs it already has, and provides the environment in which businesses can flourish with confidence.</p> <p>Leeds is the third largest employment centre in the UK and contributes £16.3 billion gross value added (GVA) to the UK economy annually. It is a major transport hub centred on Leeds Station, the future terminus of HS2. The River Aire valley upstream of the station provides a vital transport corridor, with eastern rail lines linking Kirkstall, Airedale and Wharfedale to the wider national rail network. The A65 passes along the river corridor, and this is the primary highway connection between Leeds Station and Leeds Bradford International Airport, and for many businesses and commuters based in the west of the city.</p> <p>Leeds City Council and the Environment Agency approved the Upper Aire Flood Risk Management Strategy and have long standing strategic ambitions for the city to be protected from flood events of a 1 in 200 year magnitude. The National Infrastructure Commission recommends that all major cities should benefit from this level of protection.</p> <p>The decision to split Phase 2 into two steps has allowed step 1 to proceed through planning and to contract award, whilst subsequent planning applications will be made for step 2 through Bradford Council and work continues to secure the full funding package required for step 2.</p>
<p>Commercial Case</p>	<p>Investing in flood management (Step 1) will protect an existing 139 businesses, employing around 3,605 people, and deliver the commercial confidence to allow the city to continue to thrive and generate good growth for the future benefit of everyone.</p> <p>The construction phase of the works have been tendered competitively through Lot 4 of the WEM Framework. An NEC3 Engineering Construction Contract (ECC), Option C Target Cost Contract with activity schedule, has been entered into with BMMjv to deliver the main works.</p> <p>A separate Technical Advisory Services contract will now be procured to ensure independent oversight of the main works contract. This will make use of the NEC3 Professional Services Contract.</p> <p>The council has entered into an agreement with the Environment Agency to work together to deliver elements of the scheme including the NFM works.</p> <p>The cost estimates have been verified by a cost manager using the Project Cost Tool and benchmarked against the actual costs from the Leeds FAS Phase 1 and information related to similar schemes completed elsewhere. The costs have also been benchmarked against the Environment Agency's project cost tool.</p>

	The main works construction costs have now been secured through a competitive tender process.
Economic Case	<p>Options have been assessed with stakeholders involved in FAS1 and although the 1 in 200 year SoP scheme remains the local preferred choice, for funding and planning purposes Step 1 will be implemented now. Step 1 will provide protection against a 1 in 100 year event, it will protect 139 businesses, deliver a benefit cost ratio of 11.7 and an increase in net GVA of £44.2 million p.a.</p> <p>Step 1 also provides intangible benefits in terms of health and wellbeing and implements NFM to improve habitat and riverside public realm.</p>
Financial Case	<p>The total cost of Step 1 is £76,390,000.</p> <p>The majority of the funding is coming from DEFRA (£65 million) with the remainder coming from Leeds City Council, Network Rail, ESIF and the Woodlands Trust as set out above. The Growth Deal contribution of £3.9 million represents 5% of the total cost.</p> <p>In the event of an overspend Leeds City Council intends to fund these costs directly or from local contributions.</p>
Management Case	The project is being led by the Council who have high ownership for successful delivery through the same project team that delivered FAS1.

Location map:

The following location map shows the scheme in relation to the other Combined Authority funded schemes in the surrounding area.



Please note, depending on the level of scheme development the location and scope of the schemes indicated here are indicative only.

For further information on Combined Authority schemes across the Leeds City Region please refer to: <https://www.west-yorks-ca.gov.uk/economy/leeds-city-region-infrastructure-map/>