'Unlocking the Severn'



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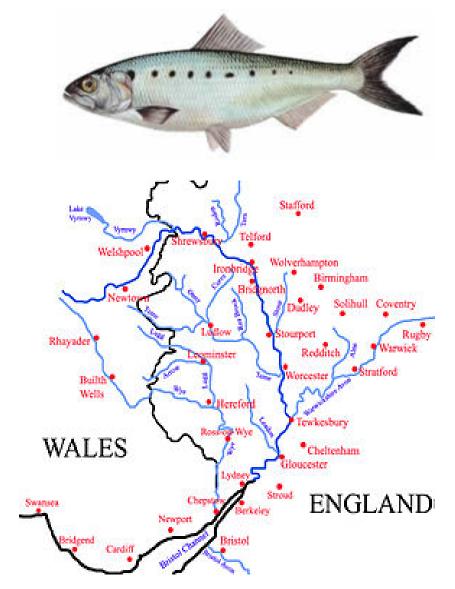




LOTTERY FUNDED

Project Background:

- £19.4M funding via the UK Heritage Lottery Fund (HLF) and EU LIFE
- £1.2M independent funding by the Environment Agency
- Largest ongoing single fish passage project in Europe
- Fish passage at 4 weirs on the River Severn and 2 weirs on the River Teme
- Powick is the only site possible for weir removal
- 5 other sites are bespoke fish passes for the European designated Twaite Shad (Alosa Fallax)
- Over 250km length of historical spawning habitat opened up by the Unlocking the Severn project on the Teme and Severn









- Twaite Shad a fairly fussy fish!
 - Needs laminar (non-obstructed) flow
 - Specific migratory period
 - Minimum water depth

- Swim in shoals
- 'Just' weir removal isn't enough!

SHAD VIDEO

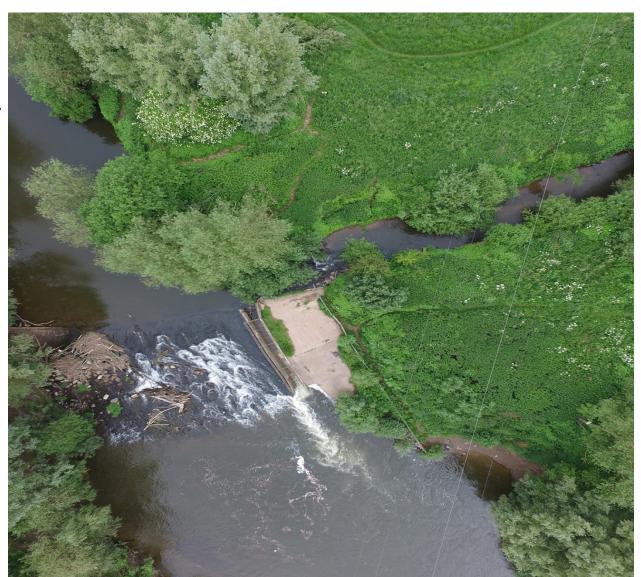






Question:

How do we get from this...

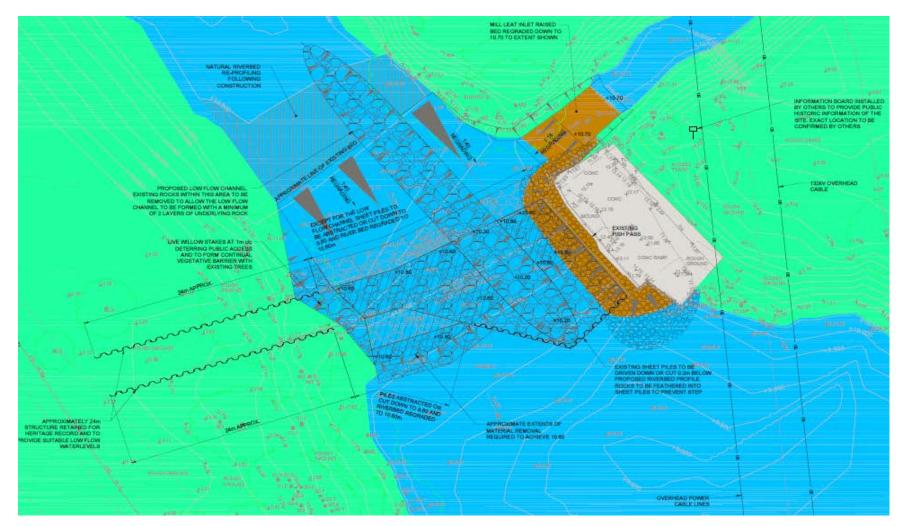








To this?

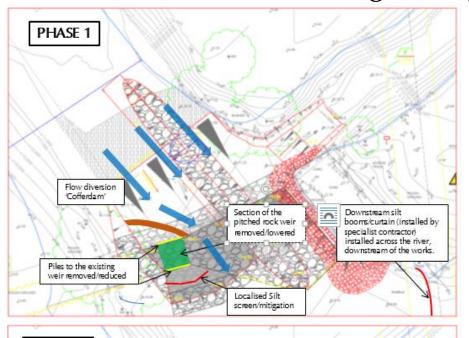


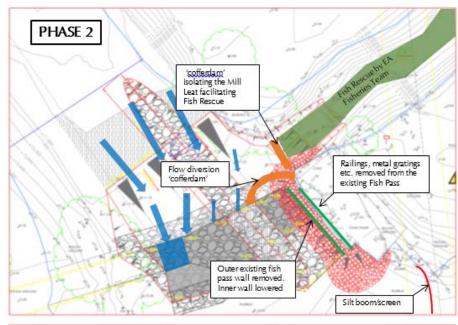


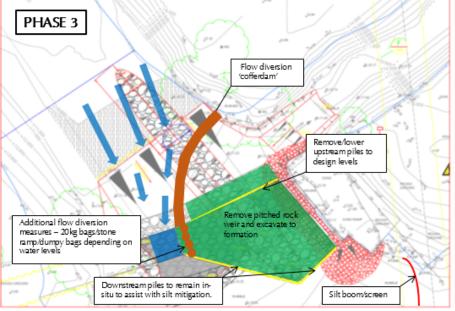


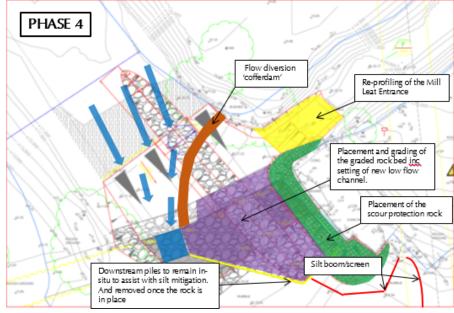


Answer: With some clever engineering and a lot of hard work!















CONSTRUCTION VIDEO







Challenges to date:

- Bedrock
- Archaeology
- Local Anglers













Changes to date:

Upstream water levels





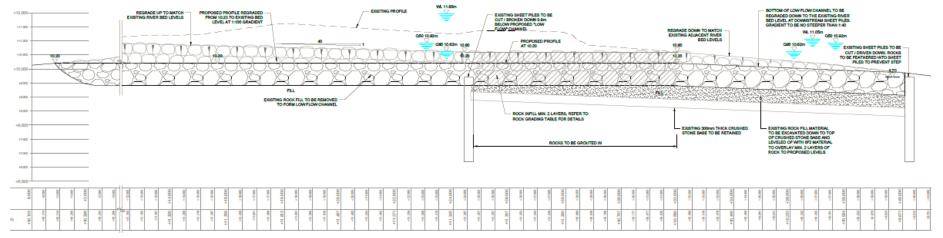








What happens next?



Long Section of Low Flow Channel for Powick Partial Weir Removal

Insert low flow channel video







- Construction works complete on the Teme by end of October
- 2 year monitoring period by Contractor, future years by EA
- Construction works start on the Severn in March 2019 and will be completed in December 2020
- 3 x deep vertical slot fish passes (Diglis, Holt and Lincomb)
- 1 x bypass channel (Bevere)
- Fish populations predicted to increase dramatically in Severn catchment
- Twaite shad increase from ~10,000 to hundreds of thousands over next 15 years
- Extensive monitoring, tagging and community engagement programmes











