WILD FIGHELDEAN PROJECT

WESSEX RIVERS TRUST, ENVIRONMENT AGENCY, NATURAL ENGLAND



The River Avon at Figheldean – a slice of history

- Long history of management
- First mention of a mill on the river is in the 1086 doomsday book, not necessarily in the position we know.
- River re-aligned (moved to the edge of the valley to feed the mill)
- River was managed for multiple purposes evidenced by the meadow showing the previous water management techniques
- Historic channel management. Existing channel always had a bypass channel where the gabion baskets are. This would have been the primary channel to avoid flooding to the mill.

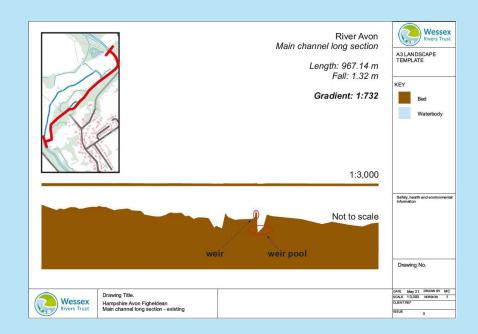


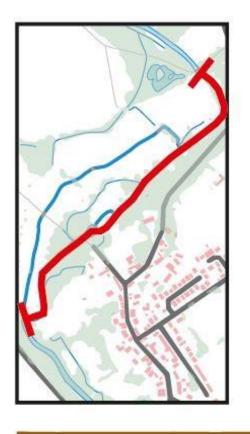
Introducing the 'Wild Figheldean' project

- Background a timeline
- 2018 anti-social behaviour associated with Figheldean weir pool and ecological issues associated with the weir and historic infrastructure prompted the landowners (Defence Infrastructure Organisation DIO) and parish council to look at options to alleviate the issue.
- Early spring 2019 Parish Council, Natural England, Environment Agency, Wild Trout Trust and representatives for the DIO met to discuss options and opportunities
- Spring 2019- Wild Trout Trust proposed potential solutions Environment Agency/Natural England requested this be developed further with a more in-depth options appraisal/feasibility study.
- Summer 2020, Wessex Rivers Trust secured EA funding to undertake the development of this project.
- 2021 Wessex RT acting in partnership with EA, NE, and DOI are undertaking detailed surveys to inform options for feasibility study.

Existing ecological conditions in the river U/S of weir

- Impounded by the weir
- Gradient drops out
- Sediment build up behind weir
- In-stream gravels become clogged
- Fish passage issue





River Avon Main channel long section

> Length: 967.14 m Fall: 1.32 m

Gradient: 1:732

Wessex Rivers Trust

A3 LANDSCAPE TEMPLATE

KEY



Bed



Waterbody

1:3,000

Not to scale weir pool

Safety, health and environmental information

Drawing No.

- Largely disconnected from its floodplain.
- High cliffing banks due to previous water control practices
- Over wide as it was built to create a head of water
- Lacks sinuosity



Existing structural condition

- Weir sill is in a state of disrepair
- Wing walls are failing
- Structure is in danger of collapse
- Attractive but dangerous swimming - weir pool









Feasibilty study and options appraisal

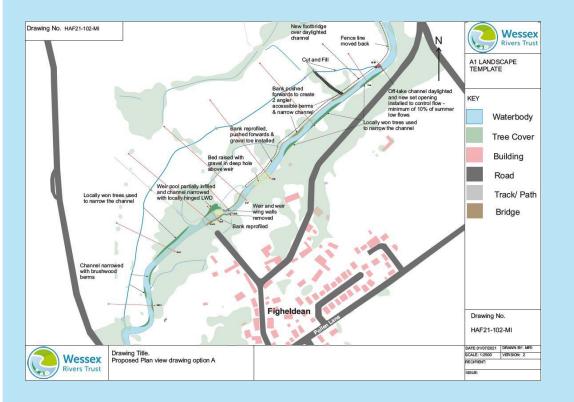
- Carried out by Dr.Peter Stone on behalf of the Wessex Rivers Trust
- Identified seven potential options for the site
- I. Do nothing
- II. Remove weir
- III. Diversion around weir using existing bypass
- IV. Switch the existing flow split and divert main channel down the centre of the floodplain
- V. Switch the existing flow split to the centre of the floodplain and undersize the central channel to encourage floodplain reconnection.
- VI. Split the flow between all the existing and historic channels to create a braided system
- VII. Fill in the main channel D/S of gated crossing bridge and allow the river to re-cut its own path through the floodplain.

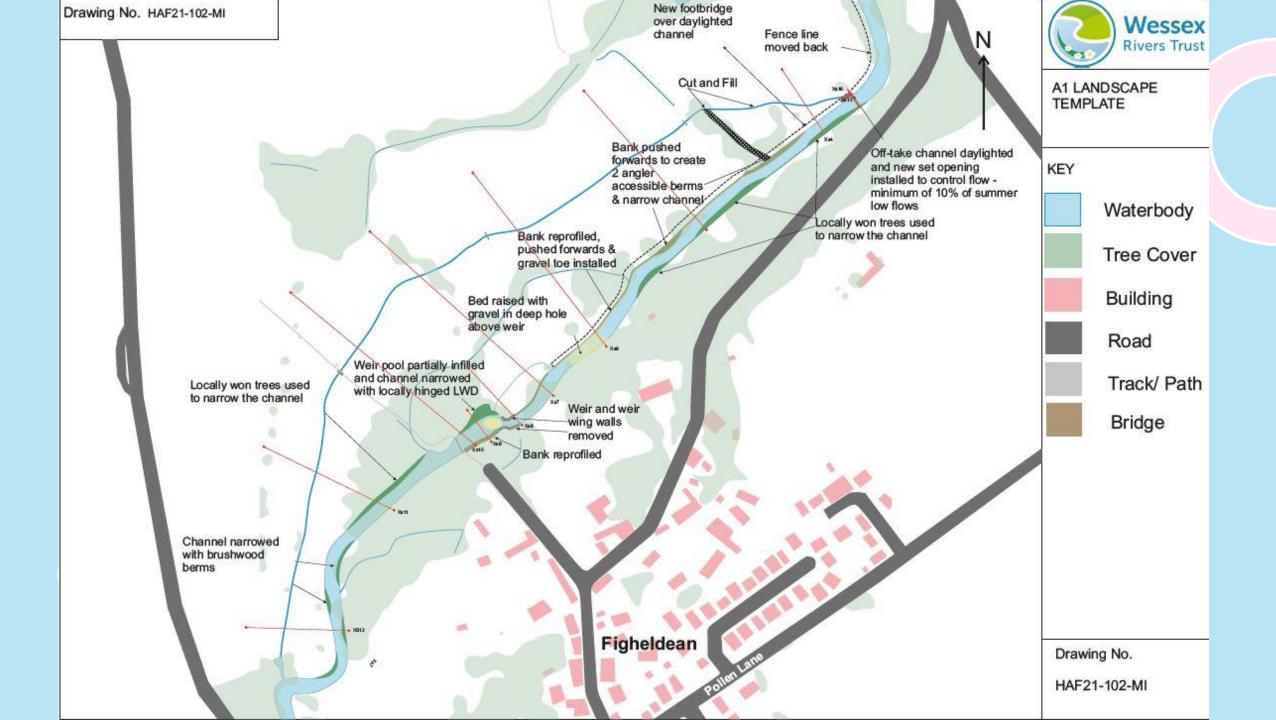
Preferred option

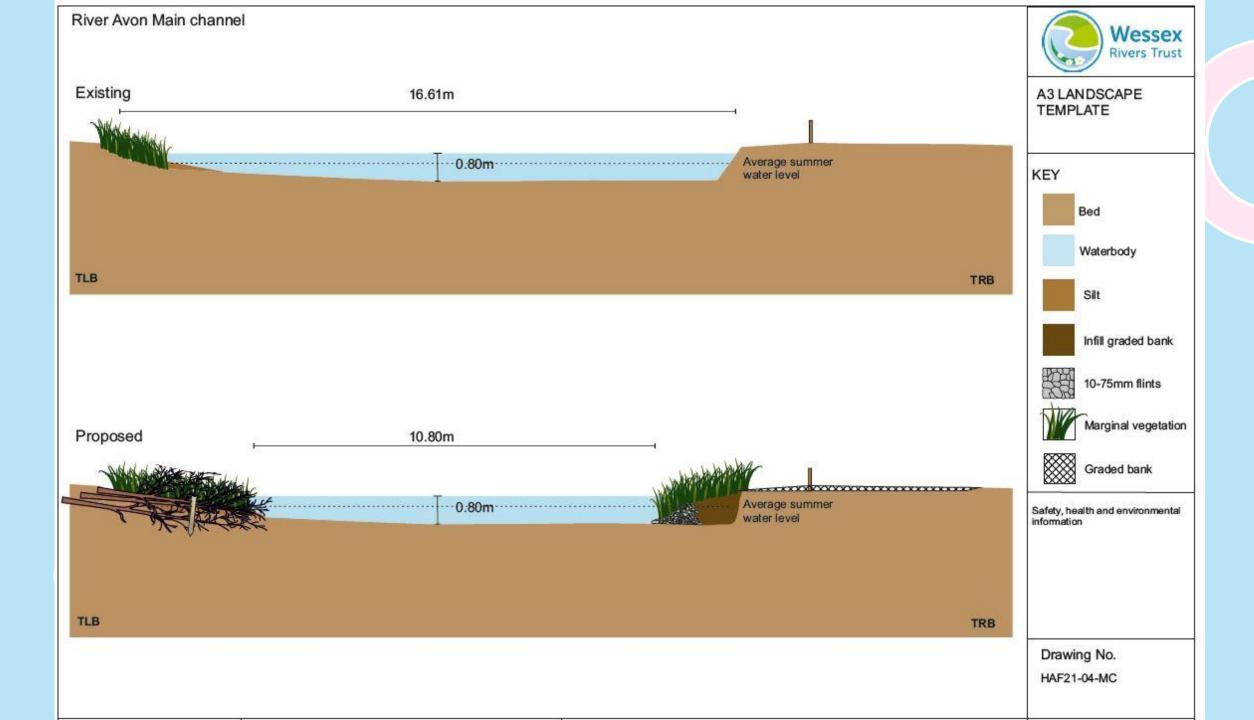
- Options were put forward to:
- Services Dry Fly fishing Association
- Defence Infrastructure Organisation (ecologist, land agent and senior access advisor)
- Parish Council
- Tenant farmer
- Riparian owners.

DESIGN

HYBRID
BETWEEN
OPTIONS 1
AND 5



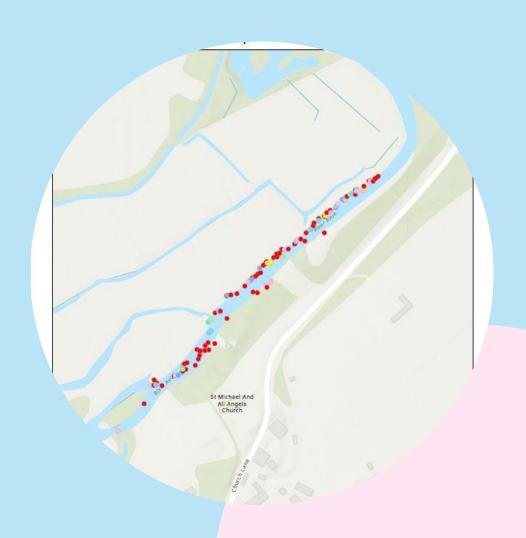


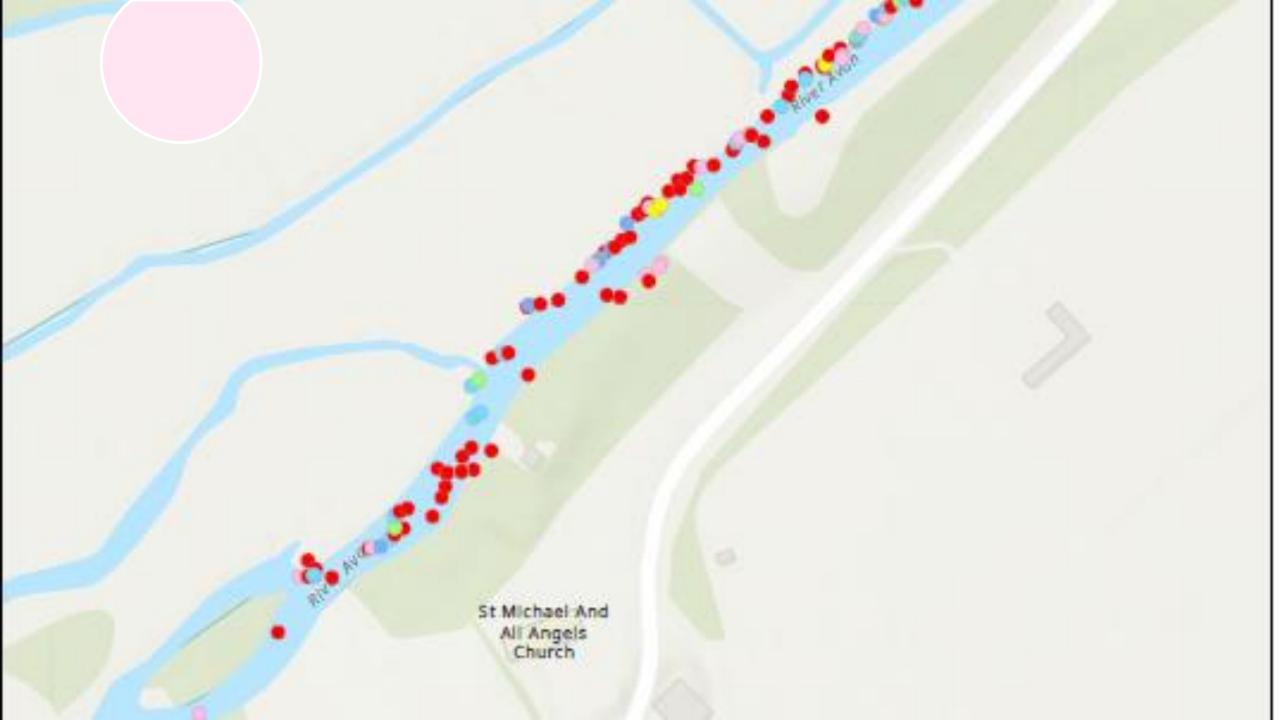


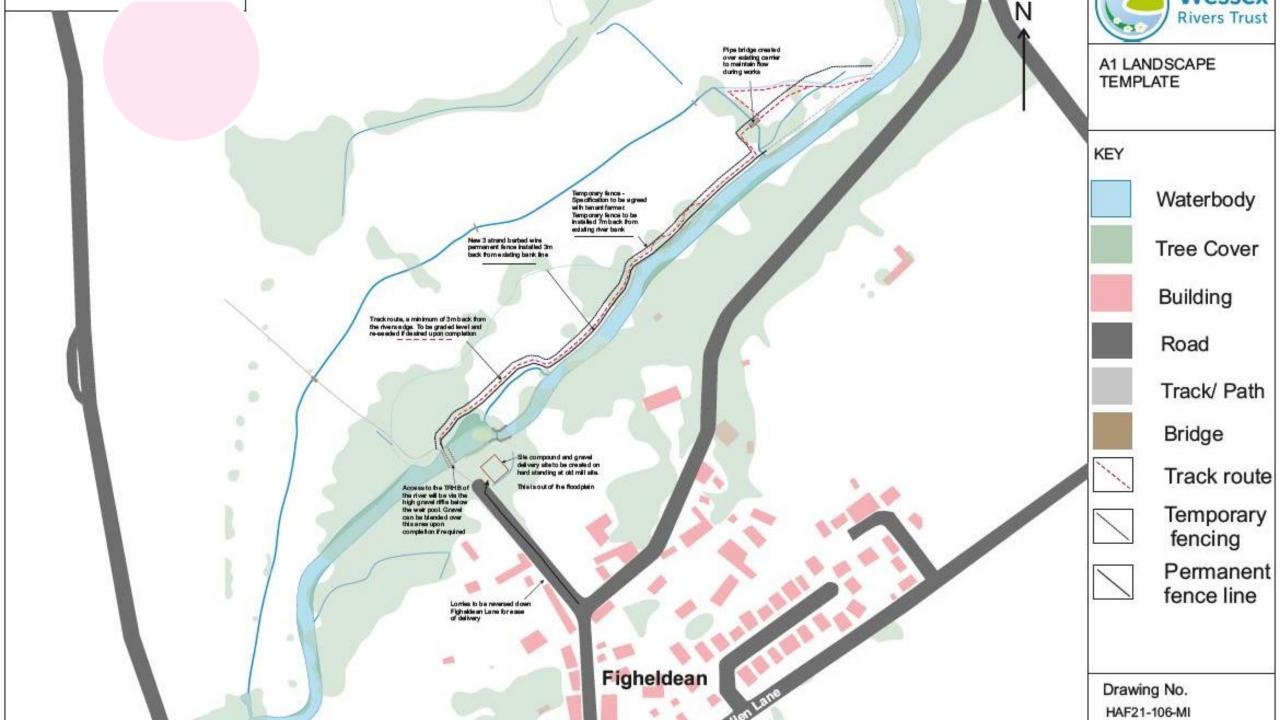
Main constraints

Water voles

Final landowner agreement



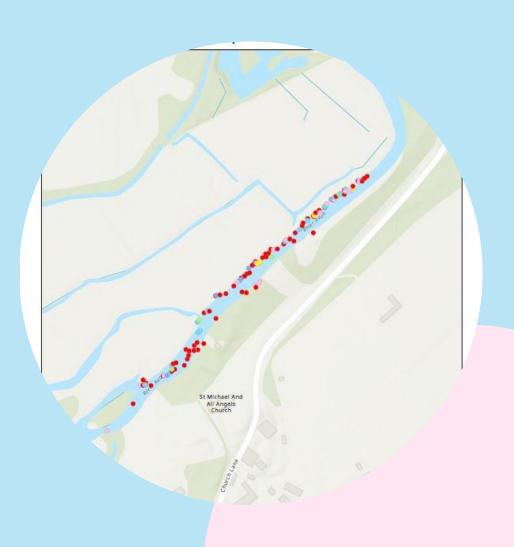




Added benefits

- Project happening downstream at Amesbury to make lords Walk passable to all fish species.
- Builds upon a large package of previous restorations completed up and down the River Avon:
- Coombe mill, Gated crossing, Gunville D/S, Chisenbury, West Amesbury to name a few

Filling in the gaps from RARP



Next steps

1

Obtain Flood risk activity permit

2

Obtain natural England mitigation licence for water voles

3

Agree funding with the Environment Agency

4

Agree access licence with DIO