

### River Thaw Enhancement, Cowbridge, South Wales



#### KEY DETAILS

<b>PROJECT NAME :</b>	River Thaw enhancement
<b>CLIENT :</b>	Environment Agency Wales
<b>LOCATION :</b>	Cowbridge, Vale of Glamorgan
<b>PROJECT CATEGORY :</b>	Habitat Creation, Lowland River

Salix were asked by Environment Agency Wales to advise on methods to restore a 100 metre reach of the River Thaw which had been subject to physical degradation by overgrazing and cattle poaching.

Salix conducted a basic walk over survey and concluded that the degraded reach was 25-30% wider than unaffected reaches up and down stream. The over wide channel had lost much of its physical habitat value due to the poaching.

Salix undertook channel restoration works as part of a larger flood defence scheme and were designed to mitigate habitat loss due to the infrastructure works. Coir rolls were installed to return the average channel width by 25-30%. The rolls were backfilled with locally won soil. The narrowing has had a dramatic impact on the flow of the channel, with a deeper faster base flow being sustained. This has allowed submerged vegetation to re-establish and provide excellent physical habitat structure within the channel. The pre-established coir rolls have rapidly controlled

bank erosion and have provided a physical habitat with the diverse vegetation establishment of marginal and bankside species.



Over wide channel lacks biodiversity



Pre-established coir rolls set into channel



One year later. Diverse marginal vegetation and physical structure to bank.



Channel narrowing and in channel and bankside vegetation creates concentrated base flow with locally complex flow diversity

## CONTACT DETAILS

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