

### Additional meanders for the Tretterbaach river (Luxembourg)

The purposes of the project were to restore a part of Tretterbaach river in Luxembourg and to erase an obstacle to fish migration. Indeed, a mill shale weir was a barrier for fauna, sediments and water. The studied site is situated a few kilometers upstream from previous restoration project planned by SAR Consult on the same river.



*Shale weir related to a forebay*



*Sediments and water retention due to the weir*

Different studies were conducted, namely: identification of the river morphological imbalances, on-field topographic measurements and hydraulic modeling.



*Extract from project stage plans*



*Tretterbaach river after restoration works*

Two alternatives were developed during a Pre-project stage. The first one included fish pass building as natural river. The second one consisted of the dam erasure and was chosen to be detailed at the Project stage. Work supervision was conducted by SAR Consult ensuring a good execution of plans and with attention paid to minimize work impact on natural environment.