

Flood Protection and Renaturation Muri Near Bern, Right Bank of the River Aare

Client

Civil Engineering Office Bern Canton, OIK II

Consultant

IUB Engineering AG in an engineering consortium

Construction period

2012–2013

Construction costs

CHF 3.1 million

Scope of services

- Detailed project
- Tendering
- Execution incl. construction supervision

Description

The flood protection system in Muri on the right bank of the River Aare was comprehensively rehabilitated in the winter of 2012/13 from the August bridge to the mouth of the river Gürbe over a length of 2.4km. It is part of the project: "Flood Protection and Revitalisation of the Floodplain at River Aare/Mouth of the River Grube".

The river bank in Wehrliau was secured with natural stones and the old concrete units were disassembled. In addition, the level of the dam was raised with the trail along the bank. The drinking water catchments located behind the dams are thereby protected from flooding and water supply to Muri and local communities is secured.

As in Wehrliau, old concrete structures were removed in Haldenau so that in the event of the Aare flooding it can assume more space and form the bank itself. The new 600m long side channel and newly constructed amphibian ponds have created an even more ecologically valuable aquatic landscape in Haldenau. In Bodenacker the course of the River Aare was optimised at Fährbeizli and aligned to the confluence of the Gürbe. The River Giesse was upgraded along some points. New ponds were created for amphibians.

Main technical data

- Length of River Aare section: 2.4 km
- Length of new side channel: 600 m
- Removal of concrete structures (groynes, control systems): 11,000 m³
- Riprap: 54,000 t approx.
- Dam backfill: 8,000 m³
- Excavation / removal: approx. 2,000 m³

