

## Fish Friendly Surface Water Pumping Grenchen

Application market	Construction
Market segment	Dewatering & Drainage, Flood Control
Pumped medium	River water, among other things containing small fishes
Pump product	Immersible
Country	Switzerland



### Challenge

The Aarmatten channel takes the drainage water of the Grenchen Airfield, the surrounding agricultural areas, as well as the overflow water of the waste water plant from the city of Grenchen. Normally, the channel flows freely into the Aare river. At a certain water level of the Aare, the water can no longer flow freely out of the channel and must be pumped to the river. During this pumping process, the small fish floating in the channel must not suffer any damage.

### Solution

Use of two Hidrostat Screw Centrifugal Immersible Pumps with closed impeller and unique fish friendly behavior.

### Benefits

The task could be solved to the full satisfaction of the customer:

- Safe protection against flooding thanks to reliable pump operation
- Due to the large free passage and low pump shaft speed, the existing live fish are also transported without damage

Quantity of units sold	2
Pump type	M28Z-VH88005 + METZ8
Motor data	30 kW / 8 pole / 18 Hz / Immersible with operating speed 270 rpm
Material combination	Cast iron pump body and wear parts, nodular iron impeller with coating
Duty point	Flow: 1'100 litres per second / Head: 1.9 meters
In operation since	2013