

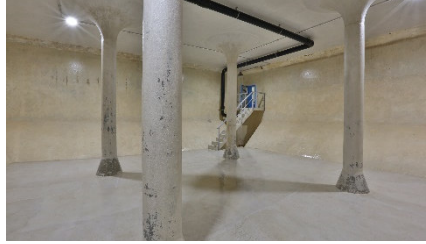



Module	Water Infrastructure Planning & Stormwater Management	
Lead	Prof. Dr. M. Maurer	
Title	How can a decommissioned drinking water reservoir be repurposed to meet the modern requirements for a sustainable urban water management?	
Description	<p>The municipality of Würenlos is currently planning the construction of a new drinking water reservoir. This raises the question of how the old reservoir (see pictures below) could be repurposed to make a positive contribution to sustainable urban water management. The main goal of the municipality is to reduce the overall drinking water extraction from their groundwater resources.</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around;">   </div> <p>The aim of this project is to conduct a feasibility study to identify and evaluate 2-3 potential reuse options for the old reservoir. In the next phase, the best option will be selected and dimensioned. The project will be conducted by a master's student in environmental engineering, in collaboration with one or two architecture students who will approach it as a "Vertiefungsarbeit".</p> <p>Research questions for the environmental engineering student include:</p> <ul style="list-style-type: none"> • What viable reuse options exist for the reservoir? • Which criteria best support selecting the optimal option? • How should the optimal option be dimensioned? <p>A key objective is to leverage synergy between environmental engineering and architecture. This interdisciplinary collaboration aims to combine technical feasibility with design excellence, creating a project for a sustainable, functional, and aesthetically integrated urban water infrastructure.</p>	
Grading	Report = 60 %, Presentation = 20 %, Practical work = 20 %	
Other	Organization:	ETH (D-BAUG and D-ARCH) / Gemeinde Würenlos
	Prerequisites:	Interest in sustainable urban water management
	Project period:	14 weeks / 50%
	Language:	English
	Single / Group work:	Group work (1 environmental engineer, 1-2 architects)
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