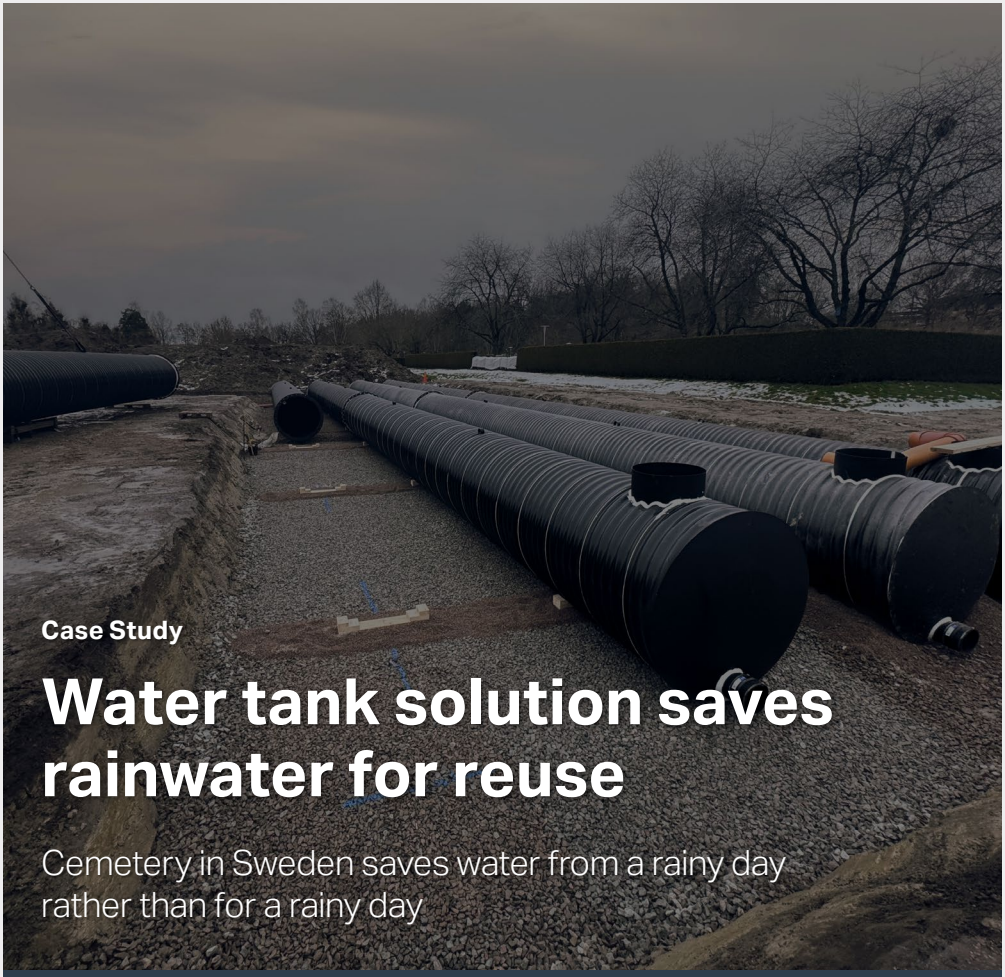

Case Study

Water tank solution saves rainwater for reuse

Cemetery in Sweden saves water from a rainy day rather than for a rainy day

The Challenge

As a part of a major renovation, upgrade and expansion of a cemetery on the east coast of Sweden, a municipality decided to install a water reuse system to ensure enough capacity for watering grass and plants at the site, regardless of the availability of fresh water.

Not only did this make use of rainwater, it served a savings purpose both in terms of water and money, as the system required 200m3 a day in watering capacity during dry periods.

The Solution

To ensure the right capacity, ViaCon delivered a tank solution of 300m3 for storage and retention of rainwater. This created a healthy consistent buffer of 100m3 in volume, ensuring that the tank would be filled with water from the storm drain system and from 2 wells in case there were not enough rain.

ViaCon manufactured and delivered a 6 leg, 300m3 retention/reuse tank solution in film-coated D1400 corrugated steel, with welded bulkheads and flange connections to ensure watertightness and durability. The tank was connected to the stormwater drains at the cemetery and also to two pumps to ensure water supply under dry periods.

Since there were two large pump stations installed for filling the tank with water, there wasn't a need for an internal pump inside the tank, which otherwise could have been supplied by ViaCon.

The Advantage

The church municipality needed a rainwater reuse tank to be able to meet the demands of watering the grass and plants at the cemetery facility. They also needed a durable solution with a long lifecycle and with low environmental impact. They found ViaCon's solution as a great alternative providing both longevity and low environmental impact.

Specifications

Key technical specifications of the structure include:

- Six D1400 HelCor ViaCon legs, film coated, corrugated steel pipe in 32.5m length.
- Each leg consisted of two segments bolted together with a flange connection.
- Welded bulkheads and D600 inspection hatches in all pipes for ease of maintenance and inspection.

The pipes were serial connected trough D200 pipes in the pipe ends and with the inlet in the first tank and the outlet in the last, creating an infiltration as water flows through the tank.

Read more at
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