

Location: Kumla Commune (Sweden)

case study: 03-2021

Reliasource®

*The Pump People®*

BACKGROUND

Kumla is a small municipality in Sweden, located between Karlstad and Stockholm. In this city, the residential area was expanded with new houses. The existing sewage pump installation with submersible pumps was too small to process all the wastewater coming from the new homes that were built. Also, the municipality was placing more demands towards easy maintenance, Health & Safety aspects and hygiene. Another aspect was the desire to have the new pump station blend into the landscape of the houses they were going to build.

THE CHALLENGE

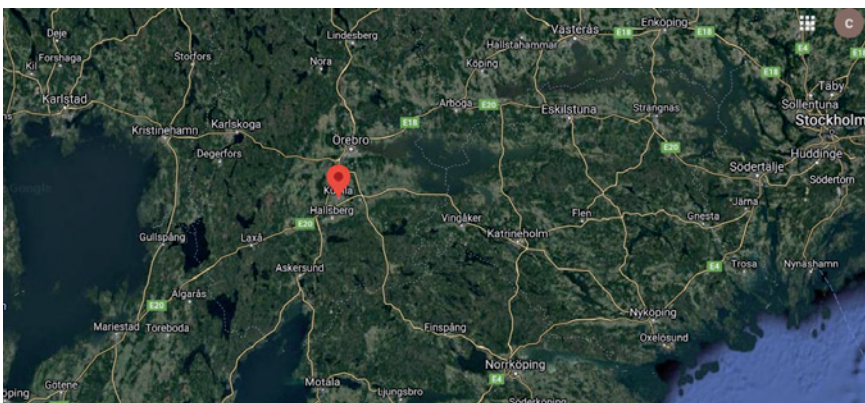
Gorman-Rupp was invited by the municipality to design a new sewage water pumping station that should meet the following expectations:

- The new pump station should be silent
- There should be no odour emission
- The pump station should require a very low level of maintenance
- Maintenance work shall be easy, safe and under hygienic circumstances

The Municipality's engineering team looked at two possible options

- The first option was upgrading the old installation with submersible pumps
- The second option was to go for an engineered system – A Gorman-Rupp Reliasource® above ground sewage pumping station.

Based on the experience of the existing submersible pump station (high maintenance interval and costs) and the experience the customer already had with self-priming Gorman-Rupp pumps on other locations, they decided to buy a Gorman-Rupp Reliasource® system.



Map of Kumla in Sweden and coat of arms of the municipality of Kumla

THE SOLUTION

Based on the process conditions, the expert engineers at Gorman-Rupp designed an above ground system with two pumps T3C60S-B/FM in a parallel setup. These pumps are equipped with an Eradicator® solids management system to prevent the pumps from clogging with wipes or other contamination found in the sewage water. The pumps were supplied turn key as a Pump Motor Base including valves, controls and (partial-) piping. The whole packages was built into a custom made enclosure with the looks and colors that matches the houses in the direct vicinity.

THE RESULT

The end-result shows a very clean pump station with an easy access for the maintenance people for routine checks and maintenance to the pumps. The enclosure effectively eliminates noise to the outside, and the closed pit construction prevents any unwanted odours for the residents.



Inside the pump station: two Gorman-Rupp T3C60S pumps in parallel



Purpose built enclosure

ERADICATOR
Solids Management System



A Gorman-Rupp self priming
T3C60S sewage water pump

GORMAN-RUPP NETHERLANDS

Zandweistraat 19
NL-4181 CG Waardenburg
Tel: +31 (0)85 7730080
Email: GREsales@gormanrupp.com

GORMAN-RUPP BELGIUM

Rue des Métiers
B-5020 Suarlée (Namur)
Tel: +32 (0)81 779977
Email: info@b@gormanrupp.com

