

HAMMARGÅRDEN MUNICIPAL PLANT Kungsbacka, Sweden

1970, Hammargårdens municipal plant just outside Kungsbacka was designed for the town of that time and for the request of that time. Screening with a 30 mm barscreen and biological treatment in aeration and sedimentation basins. The goal was even then to improve the treatment with a chemical step after the barscreen. The following steps should also be improved. They as well expected an increased load. The plant was in the same situation as many other municipal plant in Sweden.

The new plant of 1970 was build for 26000 peoples - today it can serve 52000. The treatment result can not either be compared with original. Step by step, the demands increased: small, old plants were shut down and the water was led to Hammargården, chemical treatment was implemented, the basins were supplemented. At the same time the govermental demand for environmental treatment raised faster than anyone could expect. One day it was simply just too much.

New goals for the treetreatment were set, planning of plant details were done. In the beginning of 1988 the new Hammargården municipal plant was ready - with Roto-Sieve drumsieves as a part of the new pretreatment station. The old barscreen was replaced by four higheffective, rotating drumsieves. Instead of letting through up to 30 mm big particles the water now were homogenous with the biggest particle size at 1,5 mm. This means a lot for the function of the rest of the plant.

Today, Hammargården of this totally new pretreatment plant, where the sievings is taken care of immidiately and pressed delivered into a container, an airated sandtrap, chemical presedimention, biological treatment in new high effective steps, sedimentation and chemical contact filter. The outlet water goes through a heat exchanger to utilize the last heat in the water. Outgoing water contains as most 15.0 mg/l BOD and 0.5 mg/l Phosphorus - lower than requested.

Furthermore, the sludge treatment was improved at the same time - but then we are far away from the four Roto-Sieves which are the init and the condition for the good result of the plant.