

REMOVAL OF MICROPOLLUTANTS FROM MUNICIPAL WASTEWATER AFTER BIOLOGICAL TREATMENT

CASE STUDY



Agent for:



THE CLIENT'S NEEDS

The customer, a wastewater treatment plant in the Netherlands, was looking for a solution to remove micropollutants from the wastewater effluent prior to discharge into an environmentally sensitive local water stream.

OUR SOLUTION

We applied our dNF40 nanofiltration membranes directly on the wastewater after biological treatment and settling tanks. Contrary to conventional membrane processes, our process only required a strainer as pre-treatment.

OUTCOME

Stable operation since early 2019 with a crossflow design.

Performance Summary:

- 20 LMH flux
- 97% Rejection of Total Organic Carbon
- 80% Rejection for a cocktail of micropollutants, mainly pharmaceuticals

