



BIOFOR®

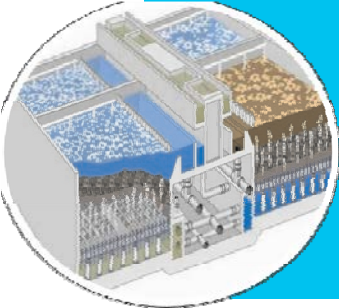
Town of Southington WPCP

Southington, CT

9.2 MGD DN BAF SYSTEM

INFILCO
BIOLOGICAL GROUP





Town of Southington WPCP

Southington, CT

INFILCO BIOFOR®

QUICK FACTS:

- > **FLOW RATE:** 9.2 MGD Max Month Flow; 15.9 MGD Peak
- > **PERMIT:** NO_x-N < 1.5 mg/l
- > **NUMBER OF UNITS:** 4
- > **START DATE:** August 2005

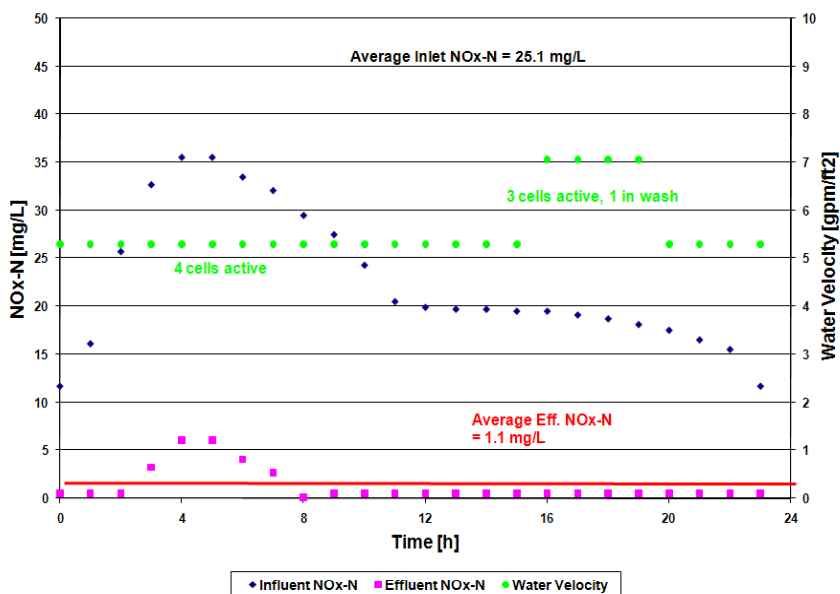
BACKGROUND

The Town of Southington WPCP, CT needed to add denitrification capacity to its existing secondary treatment system for its new Total Nitrogen Permit. A post secondary system was required to not only denitrify the secondary treated wastewater but also to further polish the effluent for suspended solids removal. The system was required to treat a design flow of 9.2 MGD with a peak flow of 15.9 MGD for effluent NO_x-N reduction to < 1.5 mg/l at a low design temperature of 13 °C. Additionally, the methanol addition needed to be tightly controlled with only a 5 mg/l BOD increase allowed across the denitrification system.

SOLUTION

The BIOFOR® DN system was selected as the answer to the challenge as it offered the requisite denitrification and suspended solids removal capability in a compact footprint. The system comprised 4 BIOFOR® DN cells each of filter area 346 ft² to treat the desired loads and flows, offering a compact and cost effective solution to the problem. Additionally, with IDI's precision dosing control program, the methanol addition was tightly controlled preventing any overfeeding thereby meeting the stringent effluent BOD permit along with the low NO_x-N limit.

RESULTS



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