



Improving Lift Station Operation

Reducing FOG and Odors using MICROCAT® - DNTRF Drain and Trap Bioformula - BSE 079



Before

Problem

Fat, oil and grease (FOG) accumulation is a maintenance problem lift station in the sewer collection system of a small Northeast U.S. city. The treatment objective is to reduce the amount of FOG buildup in the lift station. The buildups cause blockages requiring frequent manual pump out of the lift station. Increased corrosion causes operation problems with the floats and pumps. Complaints about odors also are numerous.

Product Applied

MICROCAT®-DNT Drain and Trap Bioformula

Lift Station Description

Flow: **30,000 Gallons/Day**

The collection system for this town consists of two lift stations, force mains, gravity fed mains and lateral lines, leading to a medium sized municipal wastewater treatment plant. The collection system personnel previously used a petroleum-based degreaser in the lift station, but were trying to eliminate the petroleum-based degreaser due to environmental concerns. Even when using the petroleum-based degreaser, the lift station had to be pumped once every other month to remove FOG and solids.

Product Application Program

The application program with **MICROCAT®-DNTRF** is based on the flow rates, FOG buildup and other conditions. **MICROCAT®-DNTRF** addition is made directly to the lift station. Regular maintenance dosages are made 3 times per week.



After

Results

Since using **MICROCAT®-DNTRF** at the lift station, the following benefits have been observed:

1. The grease on the water surface is maintained at a manageable level.
2. The grease on the walls and ladders is greatly reduced.
3. The pumps operate freely and the grease is visibly reduced in the pump lines.
4. The odor from the lift station has been greatly reduced.
5. Labor and maintenance requirements are significantly reduced.
6. Safety concerns are minimized due to elimination of petroleum-based degreaser.

MICROCAT®-DNTRF is regularly added at maintenance dosages to maintain lift station operation and performance.

***MICROCAT®** is a registered trademark of Bioscience, Inc.*

Dntrfi813