

CASE STUDY # 066

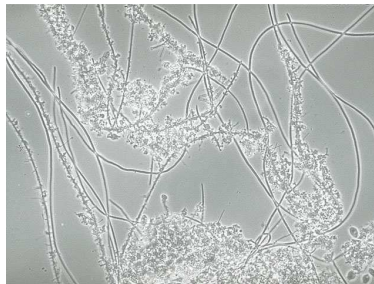
FILAMENT CONTROL WITH MICROCAT-XF FILAMENT DEGRADER

SUBJECT:

Presence of filamentous microbes in an activated sludge plant due to low dissolved oxygen. The filamentous microbes were identified as type 1851, type 0041 and Nostocoida limicola.



Type 1851



Type 0041



Nostocoida Limicola

PRODUCT APPLIED: **MICROCAT-XF, Microbial Filamentous Growth Inhibitor**



WASTEWATER:

Wastewater Type: Automotive parts cleaning operation

Wastewater flow: 150 m³/day

TREATMENT SYSTEM:

Aerated Equalization Tank Volume: 700 m³

Biological Reactor Volume: 700 m³

Secondary Clarifier

OBJECTIVE:

Reduce sludge volume index from values above 200 ml/g TSS to below 100.

PROGRAM:

Simultaneous addition on November 15 of MICROCAT-XF in both the equalization tank and biological reactor. The initial dose was 2,1 Kg per tank per day on day one and was progressively reduced to 0,25 kg per tank per day on day 20.

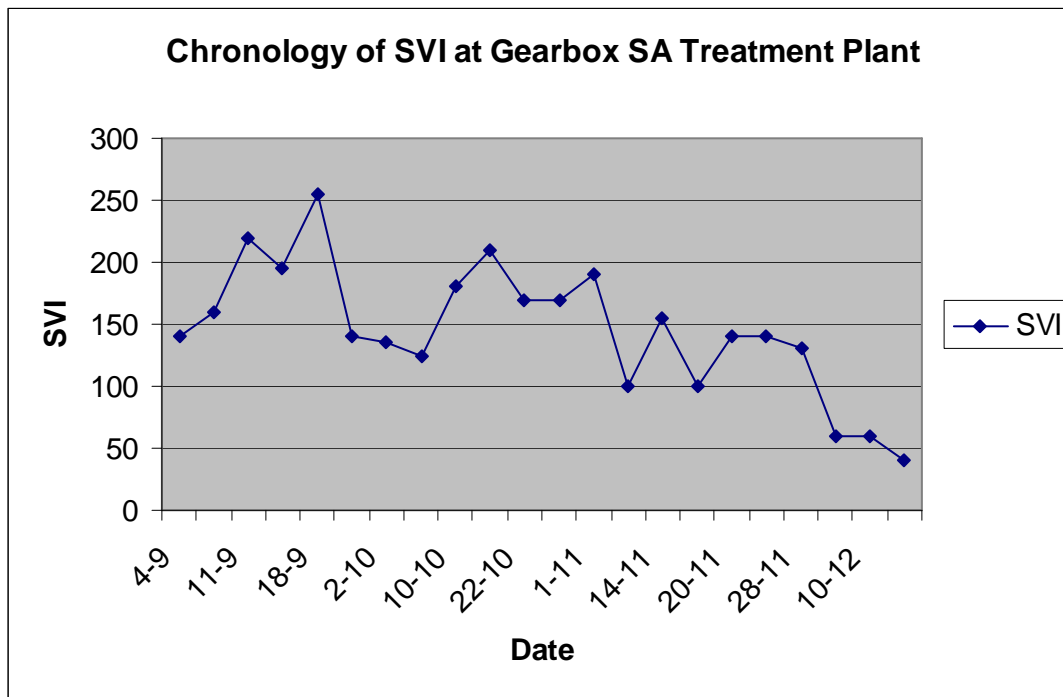
RESULTS:

Microscopic examination revealed that the filaments were being segmented and becoming shorter. Perhaps more significantly, the daily measurement of SVI (see chart) showed a reduction from above 150 to below 50 ml/g after just 30 days of MICROCAT-XF product application.



CONCLUSIONS:

The program was deemed a success and the product continued to be used on a preventative maintenance basis.



Note: MICROCAT-XF addition started on November 15