EcoFlush and EcoGrease used for sewage treatment
at the Montegabriela Municipal Plant

Products: EcoFlush and EcoGrease   Trial setting: Municipal sewage plant
Location: La Jarilla, Chile

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Objective

To increase efficiency, reduce sediments and odors in a municipal sewage treatment plant.

Methods and Results

The water treatment system at the Montegabriela municipal plant located in La Jariila, Chile, was filled with organic sediments and the waters had very high organic load evidenced by accumulated foam and bad odors.

The plant consists of a sedimentation tank followed by an oxidation tank with a capacity of $30m^3$. The sewage flow is about 20 to 25 m^3 per day. The ambient temperature ranges between 4 and 12° C.

The first day of treatment, 2 kg of EcoFlush and 1 kg of EcoGrease were applied. Five days later the color changed from chocolate brown to opaque green and the bad odor started to diminish in both tanks. The oxidation tank had a white foam. Before applying EcoFlush and EcoGrease, 18 m^3 of mud had to be removed, while the volume of mud was reduced to 6 m^3 after using the control products, indication that the levels of mud were decreasing.

On day 15 the level of mud was 180 cc per liter while on day 21 it was determined that the quantity of mud has decreased to 50 cc per liter, showing a reduction of mud of 72.2% in 6 days.

The system is currently running and it is being treated daily with 50 grams of EcoFlush, which is the equivalent of 1.7 grams per cubic meter per day.

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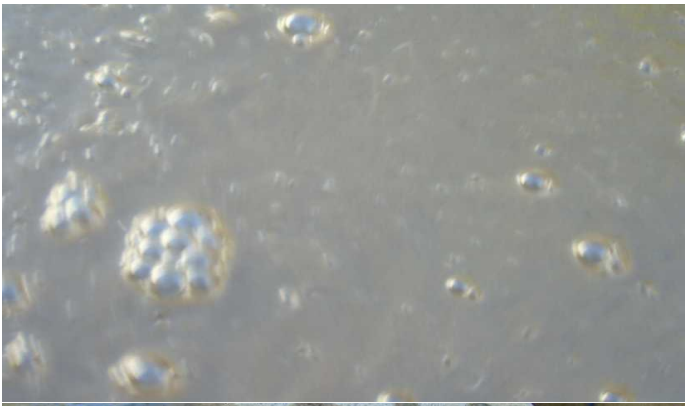
Sewage with high organic load before treatment with EcoFlush and EcoGrease in sedimentation tank.

Sewage covered with a thick layer of foam before treatment with EcoFlush and EcoGrease in oxidation tank.

Sewage treated with EcoFlush and EcoGrease in sedimentation tank.

Sewer treated with EcoFlush and EcoGrease in oxidation tank.