



Grease Interceptor Treated with BioPro FOG and BioPro SRL Reduced Fats, Oils, and Grease Build Up

Background / Summary



BACKGROUND: The milk and dairy processing facility was located in the Midwestern United States and had a flow of 150,000 gallons per day (GPD) coming from dairy production process and cleaning in place water. **This plant has a single 4,800 gallon grease interceptor** followed by an aeration tank before discharging to the city. High amounts of FOG would rapidly fill the grease interceptor. This loading reduced hydraulic capacity and required regular pump outs, during which bad odors were present.

FACILITY CHALLENGES OR ISSUES:

- Rapid buildup of FOG in the grease interceptor limiting its functional capacity
- Frequent pump-outs of grease interceptor

SUMMARY: A milk and dairy processing facility was equipped with a grease interceptor suffering from high loading of fats, oils and grease (FOG) and bad odors during pump outs. The grease interceptor was treated with BioPro FOG and BioPro SRL and **within two weeks** of treatment the **FOG levels were reduced over 85%**.

Objectives

The treatment objective was to reduce FOG levels inside the grease interceptor, pump out needs and odors during pump-outs.

Applications

Treatment started in late September of 2017 with monitoring on a weekly basis for one month. The grease interceptor was treated daily during periods of low flow with 1.5 gallons of BioPro SRL liquid using an automated dosing pump. Additionally, the grease interceptor received a 2kg per day dose of BioPro FOG for the first week. Plant personnel hydrated BioPro FOG for one hour in tap water prior to dosing. FOG reduction was measured by checking the thickness of the FOG level in the grease interceptor weekly.

Results

After two weeks of treatment, the FOG level dropped considerably. Prior to treatment, the plant had to frequently pump out the grease interceptor. After two weeks of treatment, the grease interceptor had **86% less FOG** than when treatment started despite continuous loading. These low levels were maintained for the rest of the month.

Fats, Oils, and Grease (FOG) Levels in Grease Interceptor Before / After Treatment

