

Biological Treatment of Pump Stations and Sewer Wells

The challenge

Pump stations and sewer wells often face problems with:

- Accumulation of fat and organic sludge
- Hydrogen sulfide (H₂S) formation causing odor and corrosion
- Increased energy consumption and maintenance costs

Traditional solutions rely on chemical dosing or manual removal. These are costly, temporary and can be harmful to the environment.

How the technology works









Addition of bacteria

Biofilm formation

Breakdown

Suppression

How the technology works

🛬 Addition of bacterial culture A tailor-made mix of natural, non-GMO bacteria is added directly to the system - in liquid form – and adjusted to the site conditions.

🔬 Colonization and biofilm formation

The bacteria attach to surfaces in pipes and wells, forming active biofilms that maintain biological activity and reduce buildup.

🖧 Breakdown of organic material

Fat, protein and other organics are broken down into CO₂, water and nitrogen compounds without the use of chemicals.

🗇 Suppression of unwanted microorganisms The beneficial bacteria outcompete harmful types and inhibit H₂S-producing and pathogenic species.





AFTER

H₂S

Documented results

- Over 80% reduction in H₂S within 24 hours
- 60% reduction in fat buildup in pipelines
- Lower energy usage and fewer callouts
- Improved working environment and less corrosion



Key benefits

• Efficient control of odor, fat, sludge and H₂S

BEFORE

H₂S

- No chemicals safe for personnel and the environment
- Low maintenance and easy implementation
- Supports longer equipment lifespan and fewer service interruptions

Application and flexibility

The treatment is dosed manually or via automatic dosing units (battery-operated). Dosing is adapted to flow, temperature and seasonal changes.

Suitable for:

- Gravity and pressure pipelines
- Pump stations and sewer wells
- Summer house areas, towns, industry zones

MBS treatment can be scaled and adapted to fit your specific setup, regardless of size or application.

Contact us for advice, pilot projects, or full implementation.