Hydribio Bioaugmentation

INTRODUCTION

Hydrite's Hydribio is a complete, robust bioaugmentation product used in a variety of wastewater treatment systems to alleviate challenges associated with FOG and hydrocarbons.

The powder product is formulated with Bacillus strains that produce bio-surfactants and generate lipase to enhance the biological treatment of fats, oils and grease (FOG) in wastewater. The formulation is enhanced with the addition of a proprietary blend of micro-nutrients and biostimulants to heighten performance of the microorganisms.

	CHALLENGE	SOLUTION
Pumping, Jetting, and Removal Costs	FOG build-up in collection and treatment systems requires reactive and costly physical removal.	Pro-actively treating with bioaugmentation promotes the digestion of solids and FOG. Continuous treatment with Hydribio is used to prevent problematic buildups.
Treatment Facility Performance Challenges	Heavy loads of FOG in wastewater treatment facilities can cause issues such as floating, bulking, load and flow upsets, and foaming.	Hydribio removes fats, oils and grease before it accumulates.
Limited Capacity	FOG accumulation reduces the capacity of collection systems. It also inhibits aeration and evaporation, which can cause a negative effect on treatment.	Hydribio digests and reduces accumulated FOG, restoring capacity and system performance.
Odor & Hydrogen Sulfide (H2S)	FOG often promotes the generation of odor and H2S. Complaints, safety, and compliance issues related to odors force facilities to use costly chemicals and equipment.	Treatment with Hydribio prevents conditions favorable to odor and H2S production, thus preventing the need for chemicals and equipment.

DOSING

For specific dosing recommendations, speak with your service provider and/or review the system application sheet. The typical dose is between 0.5-5 mg/L of system flow, depending on the system flow and loading method.

For certain applications, the product should be hydrated in potable water at a ratio of 1 kg/2.5 gallons of water (1:10 ratio) for 1-8 hours and then poured into the designated dosing location. If the situation does not allow for hydration, the product can be applied directly.

APPLICATIONS

- Lagoons
- Collection Systems
- Grease Traps
- Any application where Hydrocarbons are prevalent

BEFORE

AFTER

Measured Variables	Before Treatment	After Treatment
FOG Cap % Surface Coverage	100%	60%
FOG Cap Thickness	6 in	2 in
Sludge On Lagoon Bottom	24 in	6 in
Total Volume of FOG + Sludge	6,543,958 gal	1,575,397 gal
Odor Rank (lowest: 1, highest: 10)	8	2

CONCLUSION

After only three weeks of treatment, the FOG cap was reduced to 60% coverage and two inches in thickness. Additionally, there was 75% less sludge to dredge and a significant reduction in odor.

Hydribio saved the client from paying expenses in equipment and land rental fees to irrigate the water from their lagoon.

ABOUT HYDRITE

Hydrite, a family-owned company established in 1929, is one of the largest independent providers of chemicals and related services in the United States. Hydrite offers expertise in chemical distribution and manufacturing, food and dairy sanitation, organic processing, liquid sulfites, foam control, water treatment, and compliance management services.

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