



# AQUAFIX Inc.

*Innovations in  
wastewater treatment.*

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## TECHNICAL UPDATE

# FILAMENT BUSTER

Filament Buster is a specific source of amino acids and micronutrients that reduce the levels of bulking filaments Type 021N, *Thiothrix* and Type 0092. Typically, these filaments cause bulking in wastewater systems with nitrogen deficiency and lead to dewatering issues. They can be present on an ongoing basis, during times of seasonal temperature changes, or as a result of getting dumped on by upstream sources.

Filament Buster works by providing floc forming bacteria the amino acids and micronutrients they need to out compete the bulking filaments listed above.

### The Science Behind the Product

Traditionally when wastewater plants have these filaments they may use a simple form of nitrogen, like urea. The nitrifying organisms and the floc forming bacteria are in competition for the ammonia in the form of urea. The amino acids and micronutrients in Filament Buster are metabolized more directly by floc forming bacteria, will limit exocellular polysaccharide sliming (EPS) and produce better settling. In industrial wastewater plants trying to balance BOD:N:P ratios where they get high BOD loadings in the form of a carbohydrates, Filament Buster creates less D.O. demand than traditional urea. In addition, by addressing the nitrogen deficiency in a fundamental way a plant will produce less sludge.



### Compatible Products

This product functions best added daily to the first section of the aeration basin in an aerobic wastewater system. Filament Buster works well in combination with: Qwik-Zyme L, Qwik-Zyme P and OxyFresh depending on what waste stream it is being added to and what filament needs to be controlled. Qwik-Zyme L is a biocatalyst based fat degrading product and Qwik-Zyme P is a biocatalyst based protein degrading product. OxyFresh is designed to assist in plants that have problems with low DO.

This product is specifically designed to combat filaments caused by nitrogen deficiency. Use our “SmartBOD” in systems with Low F:M and high sludge age conditions.



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# DOSE RATES

Dose Rate varies based on the wastewater system and filamentous bacteria present

FILAMENT BUSTER	
Initial Dose	10 lbs per 100,000 GPD flow, daily, for 30 days
Maintenance Dose	1 lb per 100,000GPD flow, per day
Super Dose (Special Cases Only)*	20+ lbs per 100,000 GPD flow, per day

**This product is not recommended for anaerobic systems. If a foaming issue occurs in an anaerobic system please contact Aquafix directly for recommendations.**