

# Baswood BioViper™

Advanced pretreatment option for processing high-strength food & beverage wastewaters



# The Baswood Solution



Baswood has successfully achieved BOD reductions in beverage process waste of up to 90% without additional pretreatment.

## Wastewater Treatment Challenges

With the high organic levels and variable loads typical in waste streams from beverage & juice processes, some form of wastewater pretreatment is often needed to meet ever more stringent municipal discharge limits and reduce related surcharge fees. In addition, the industry as a whole is becoming more conscientious about improving operating efficiency and reducing the impact of their operations on the environment. The Baswood BioViper™ offers a wastewater pretreatment solution that helps to satisfy both fiscal and sustainability goals.

Baswood BioViper is a robust, automated, biological system specifically designed to treat high-strength wastewater streams with minimal chemical needs and low energy consumption, resulting in lower life-cycle costs. While traditional biological treatment systems have high energy demands, produce large quantities of sludge, occupy a large footprint, and require constant operator interface, the BioViper is specifically designed to handle high-strength industrial waste streams without any of these issues.

## Proven, Innovative Technology

Utilizing our patented processes, Aerobic/Anaerobic Integrated Microbial Succession (AIMS) and the innovative Dry Cycle Aerobic/Anaerobic Digestion (DCAD) process, the BioViper provides efficient, reliable wastewater treatment within a stable, fixed media environment. The overall treatment process mimics the natural organic breakdown processes that occur in rivers as water flows through various aeration environments.

## BioViper™ Advantages

Baswood's staff has intimate knowledge of beverage and juice processing, which allows us to design and install a system that takes advantage of the BioViper's robust biomass to respond to fluctuating waste loads, while maximizing treatment. Benefits of the BioViper include:

**Low Life-Cycle Costs** » a fiscally responsible solution that provides an enhanced return on investment

**Efficient Treatment** » consistent digestion rates of over 80% with a low hydraulic retention time, and an efficient aeration process using 40% less energy than traditional systems

**Reduced Solids** » efficient biosolids digestion reduces the quantity of sludge by 70% or more

**No Added Pretreatment** » accepts high levels of fats, oils, and grease (FOG) and total suspended solids

**Water Reuse** » effluent can be custom cleaned for a variety of re-use opportunities

**Sustainable** » supports initiatives to minimize energy use and reduce impacts to the environment and public resources

**Modular/Scalable** » modular design can be easily customized to specific flow and organic loading requirements

**Limited Operator Interface** » proprietary Supervisory Control and Data Acquisition (SCADA) with remote monitoring capability

**Small Footprint** » modular, customizable unit with compact footprint and minimal site infrastructure needs

**Minimal Odor** » lower odors than traditional systems—easily managed with passive filtration

The Baswood BioViper™ provides the preferred combination of treatment efficiency, cost effectiveness, size, and simplicity to provide an optimal wastewater solution that supports the financial criteria and sustainability goals of our customers.



## About **Baswood**

Baswood offers an environmentally responsible, lower total cost alternative for wastewater treatment and biosolids management. Our proven, patented technologies provide effective treatment of municipal and industrial wastewater streams. Founded in 2004, the company delivers innovative, technology-based solutions that produce results. Our systems are compact, customizable, and require less energy and limited manpower to operate.

Pilot Testing

System Design

Equipment Supply

Installation

System Startup and Commissioning

Operations Training

Long-Term Support

**For additional information**, or a complimentary evaluation of how a Baswood system can improve your bottom line, please contact us at:

888.524.2822 or [info@baswood.com](mailto:info@baswood.com)

[www.baswood.com](http://www.baswood.com)

