



TRADEWORKS
ENVIRONMENTAL



PRIME SCREEN™ Biologically Enhanced Very Fine Screening Technology

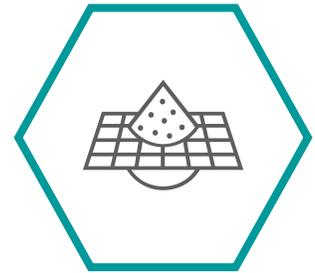
The PRIME SCREEN™ system combines a fine screen at the headworks with the addition of specialized Ydro Process® microorganisms in the collection system. It is applicable for all types of wastewater treatment systems, especially those lacking primary treatment, membrane-based systems, lagoon-based systems and systems in need of additional capacity.



**Targeted Ydro Process®
Microorganisms**



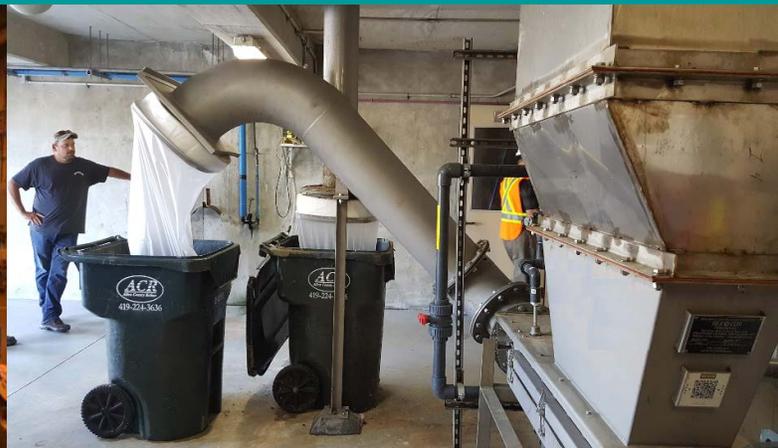
**Analytics &
Technical Support**



PRIME SCREEN™

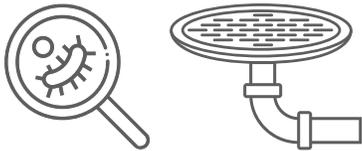
BENEFITS FROM PRIME SCREEN™ APPLICATION:

Reduced COD, BOD, TSS • Lower Energy Use in Aeration • Reduced Sludge Volume
Single Pass Through • No Bypass Option • Improved Operator Safety

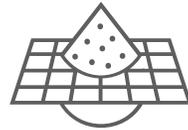


How it Works

In the collection system, the microbial product degrades fats, oils and grease (FOG) and prevents hydrogen sulfide (H_2S) and sulfuric acid (H_2SO_4) formation, which minimizes odors, grease buildup, and corrosion in the collection system. This microbial pre-treatment is combined with the removal of inert material by the PRIME SCREEN™ to reduce organic loading by more than 25% and achieve equal or better effluent quality as primary clarification.



Ydro Process® microorganisms dosed into manholes or lift stations in the collection system



PRIME SCREEN™ filters out fine materials



Wastewater treatment plant benefits from reduced organic loading

PRIME SCREEN™ FEATURES

- Screen openings are 100 - 3000 μm
- Scalable and customizable for any flow
- Easy to resize for increased capacity due to modular design
- All maintenance is external to system
- Bypass of debris and screenings is prevented
- Improved operator safety due to automatic bagging system
- Cleaner operating environment compared to conventional screens
- No need for multiple runs or backwashing with single pass-through design
- Screen material is durable stainless steel

PERFORMANCE BENEFITS

- Increased efficiency in removal of very fine material
- Significant reduction of COD, BOD, TSS
- >25% reduction in organic loading
- >25% lower energy consumption in aeration stage
- Reduction in sludge production and resulting disposal cost savings
- Effective removal of hair, lint, strings, rags, paper, plastics, fibrous solids, and fine cellulosic material
- Undetectable H_2S levels inside the screen

WHAT SETS US APART

The TradeWorks approach is holistic and preventative wastewater management. By leveraging the Ydro Process® microorganisms, we aim to address the source of the problem rather than mask the symptoms. Our solutions achieve long-lasting performance improvements while reducing energy usage, carbon footprint, and operating costs.

Our team understands that all systems are unique. As part of our technical support, we have the analytics capabilities and expertise to determine optimal dosing locations and dosing methods if needed for larger scale applications.