

# BiOWORM™

**A SUSTAINABLE, NATURE-BASED  
EROSION & SEDIMENT CONTROL SOLUTION  
OFFERING BOTH EFFICIENCY AND  
AFFORDABILITY 100% MADE IN THE USA**

**Eco-Friendly Solution:** BioWorm™ stands as an eco-conscious alternative to traditional filter socks. Its netting effectively combats plastic microfiber pollution, complemented by OEKO-TEX-certified fibers and textiles that validate our commitment to sustainable manufacturing. When paired with our proven blend of kiln-dried/low-moisture wood material, featuring over 99% reclaimed content and regulatory approval for post-use land application, BioWorm™ blends durability and sustainability for your erosion and sediment control needs.

**Proven Environmental Compatibility:** Extensive third-party laboratory studies validate the effectiveness of BioWorm's™ netting materials across various environments, including wastewater treatment plants, seawater, soil, and landfills. These studies align with ASTM standards and internationally recognized respirometry test methods.

**Safe and Harmless:** Certified by OEKO-TEX ECO PASSPORT®, BioWorm's™ netting chemistry guarantees the safety of our sustainable textiles, eliminating health concerns. BioWorm™ is an environmentally responsible, non-toxic solution.

**Value-Based Price Point:** We're committed to making sustainability affordable. Leveraging Siltworm's™ efficient production and shipping methods, BioWorm™ is now available at a price point that minimizes the budget impact of adopting an eco-friendly filter sock solution.

**Highly Effective, Eco-Conscious Solution:** Highly Effective, Eco-Conscious Solution: BioWorm™ delivers up to a 95% sediment retention rate, as tested by Tri-Environmental using ASTM testing standards, with nature-based netting, all at a cost-effective price point. It's the ideal balance of sustainability and affordability.

# SILT WORM™

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



# BiOWORM™

A Sustainable, Nature-Based Erosion & Sediment Control Solution Offering Both  
Efficiency and Affordability from Siltworm™  
100% Made in the USA

## BioWorm Testing Results

ASTM D5141 Results		ASTM D7351 Results	
Flow Rate m/m/min	0.047	Test Setup	Toe-of-Slope Installation 2"x2' Wooden posts @ 32" Spacing
Flow Rate GM/ft	1.162	Duration (min)	75
Initial Mass of Soil (g)	150	Water Input (lbs)	4700
Final Mass of Soil (g)	6.44	Soil Input (lbs)	300
Filtering Efficiency	95.7%	Sediment Concentration	Loam @ 6.0%
		Soil Retention Effectiveness	85.0%
		Seepage Effectiveness	91.9%

## Fill Material Specifications

Grind Sizing	90% 1.5 – 2-inch grind, 10% fine grind
Wood Source	Recycled wood fiber
Properties	Weed, seed, disease- and bark-free, 99%+ recycled kiln-dried/low-moisture biodegradable wood material. It is regulatory approved for beneficial reuse as fill material for erosion control devices, animal bedding, and land application after use as animal bedding.

## Shipping Configuration

Packaging	Shrink-wrapped & palletized with caps for indoor or outdoor storage.
Configurations	8" x 12' x 45 pieces (540 linear feet / pallet) 8" x 270' x 2 pieces (540 linear feet/ pallet)

DAY 5



DAY 30



DAY 55



1, 2, 3, 4 depict the natural netting degradation of BioWorm™ as a result of exposure to environmental factors, encompassing direct sunlight and repeated rainfall events.