filtrexx®

SUSTAINABLE TECHNOLOGIES

Jason Schmidt

Filtrexx International

What is a FilterSoxx?

- A three dimensional filtration device that traps sediment and breaks down certain non-point pollutants
- A tubular mesh product which is filled with local STA certified compost or composted filter media
- The product has the capability to be a continuous length, or cut to fit the application
- Easy installation and removal = Low project $$$

Performance Tested With Many Uses

filtrexx®

Filter Media

Tested for Particle Size & Contaminants

filtrexx®

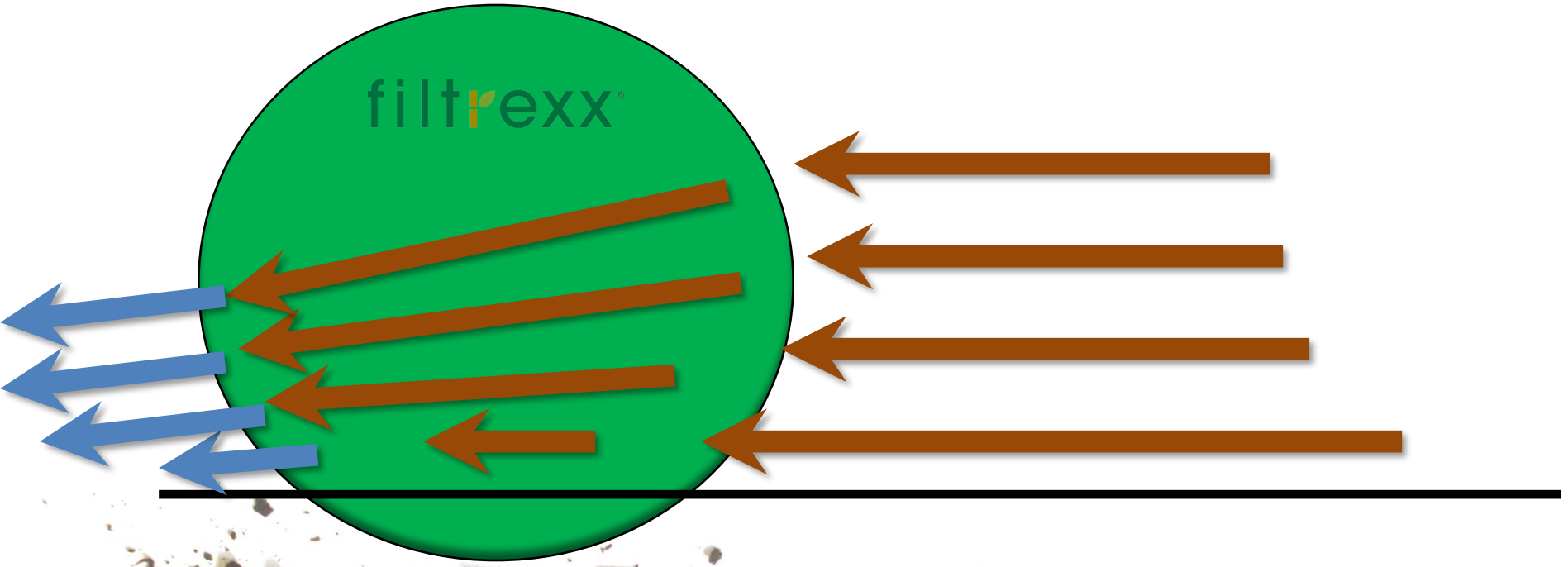
Growing Media

STA Certified - USCC

3-DIMENSIONAL FILTRATION

Higher Performance

Faster Flow Thru Rate

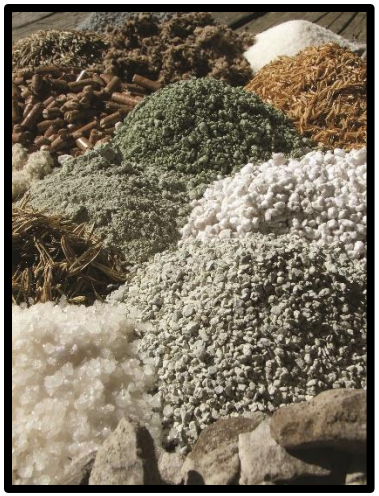


EnviroSoxx®

Filtrexx® Treatment Train™ for Targeted Invisible Pollutants

Metals Removal
Nutrient Removal
Bacteria Removal
Hydrocarbon Removal
Sediment Control

All Natural Additives



Post Construction Applications

Municipalities

Industrial Sites

Coastal Areas

Agriculture

AND MANY MORE !

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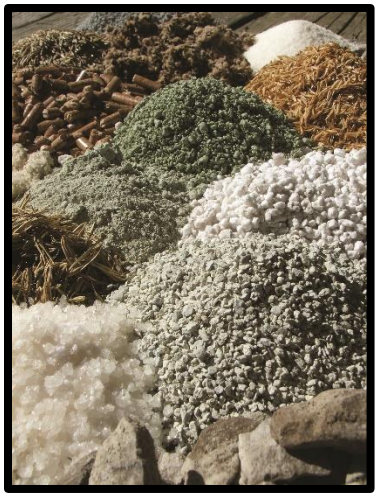

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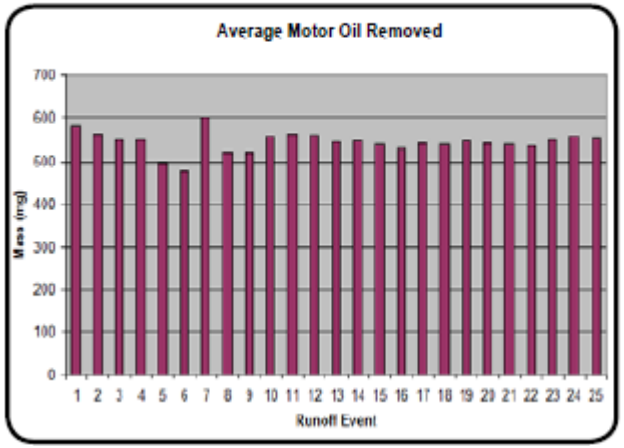
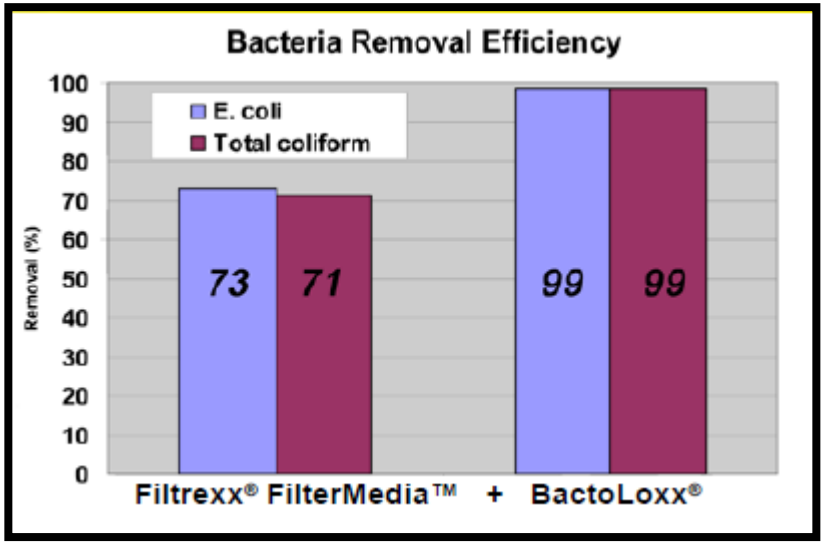
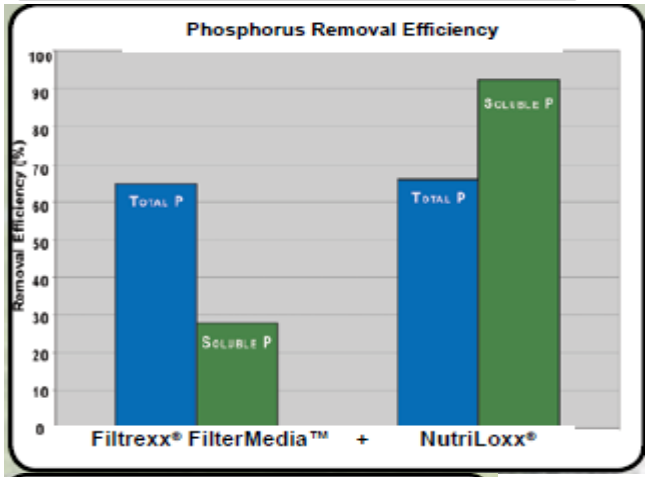
Applications

USEPA Research Shows
99% Motor Oil Removal Over 25 Rain Events!



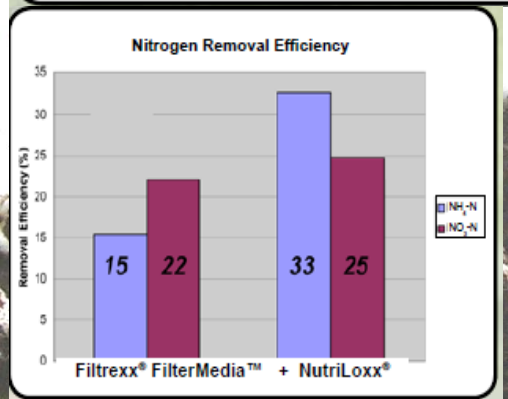




USDA ARS

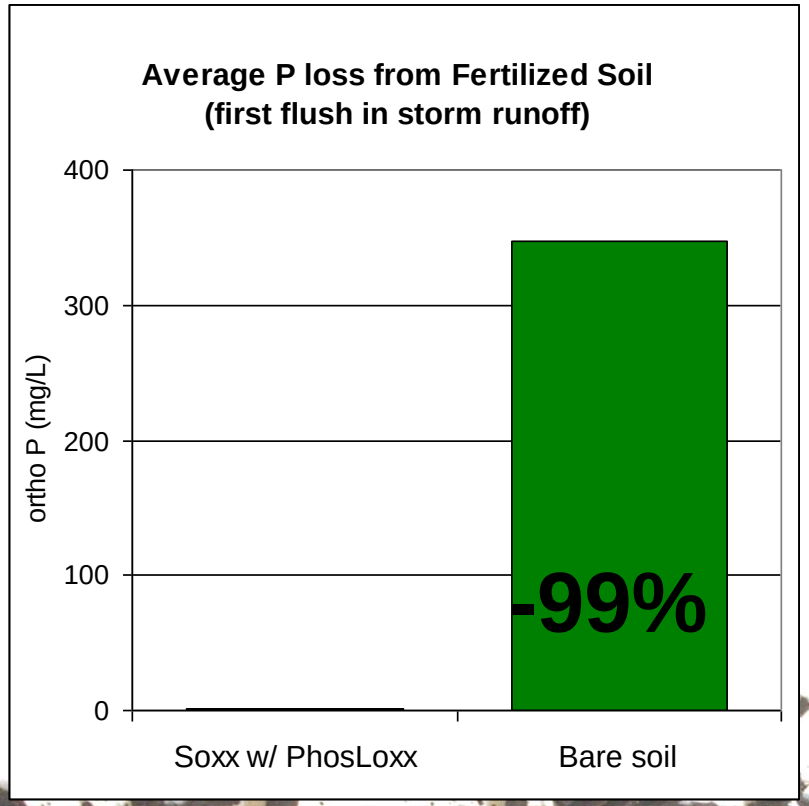
Research

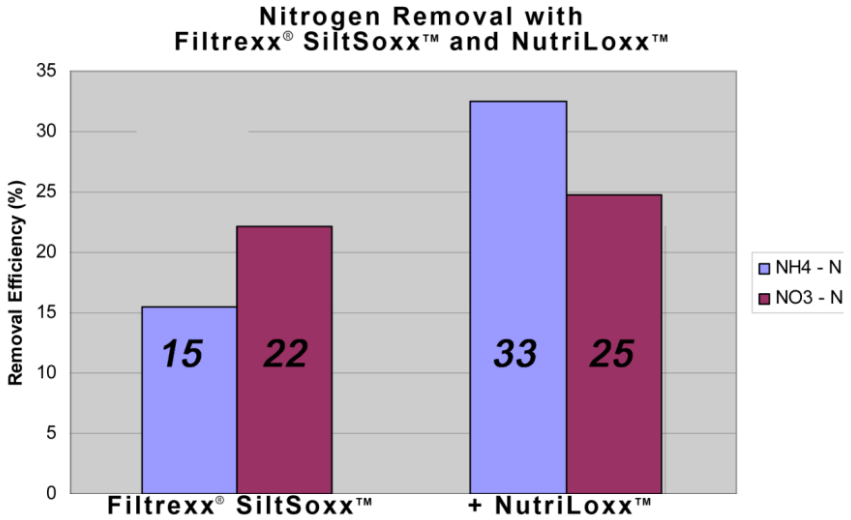
		METALS					
Application	Category	Cd	Cr	Cu	Ni	Pb	Zn
Filtrexx® FilterMedia™ & MetalLoxx®	Removal Efficiency (soluble)	72%	29%	70%	69%	79%	57%
	Removal Efficiency (particulate)	77%	78%	45%	63%	61%	47%
	Removal Efficiency (total)	73%	47%	70%	69%	73%	53%



Nutrient Removal

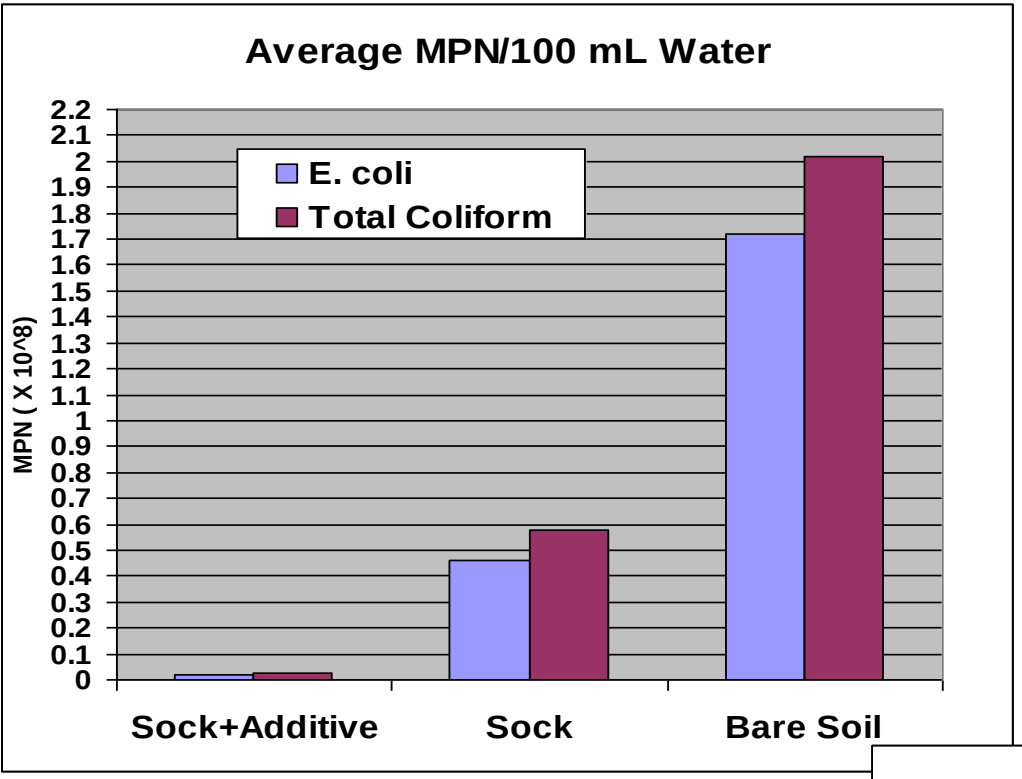
Phosphorus & Nitrogen

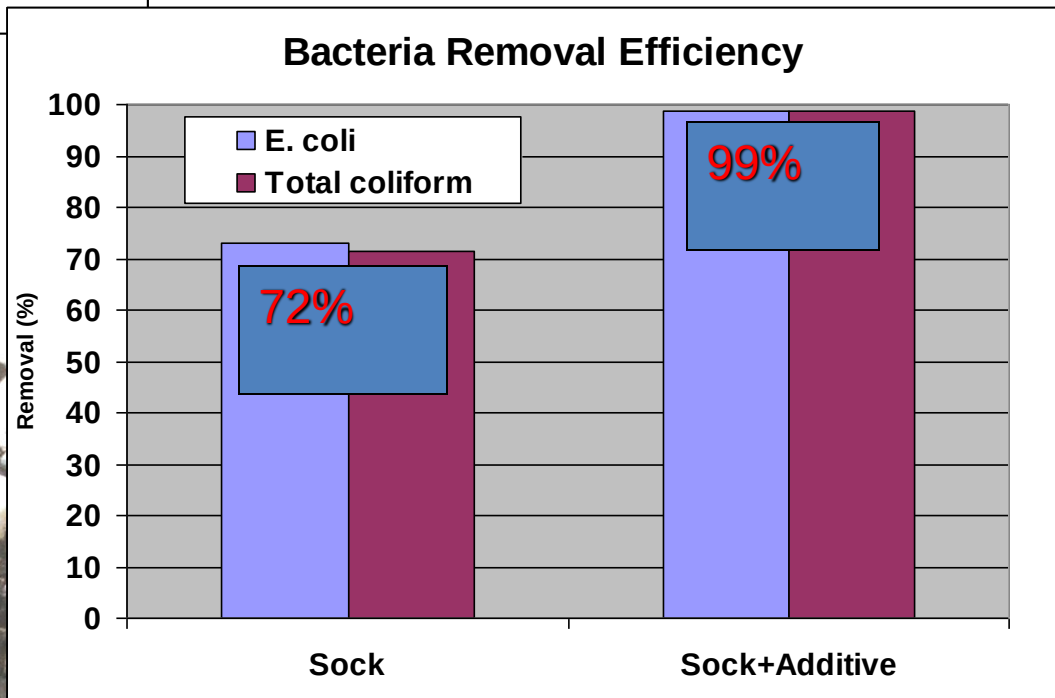




FilterSoxx alone average 30% soluble P, 65% total P removal

Bacteria Removal

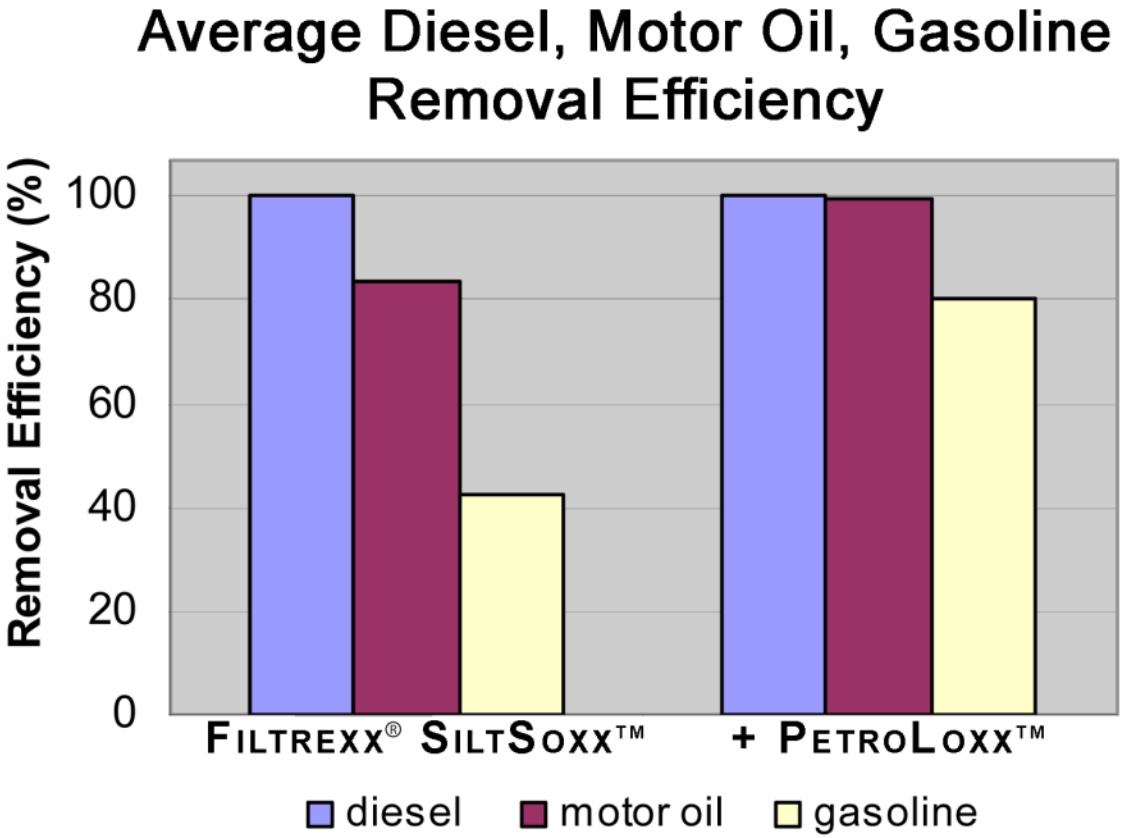




Bacteria (MPN) Exposure

- Total coliform – 200 million/100 mL
- E. coli – 170 million/100 mL
- *Typical* – 50,000/100 mL

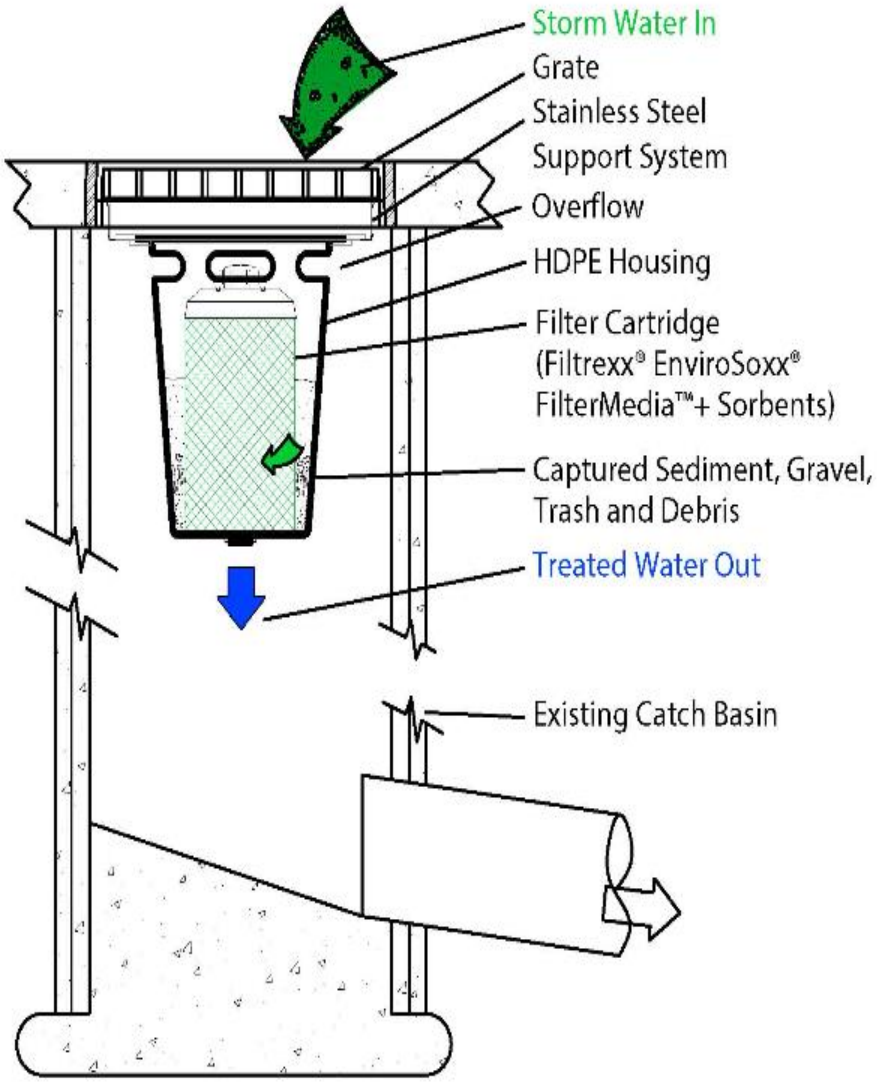
Petroleum Hydrocarbons



25 Rain Events – 98% Removal

- **Runoff Concentrations = 1,410 mg/L (motor oil), 5,400 mg/L (diesel), and 74 mg/L (gasoline)**
- **Runoff Loads = 20,820 mg (motor oil), 77,440 mg (diesel), and 1070 mg (gasoline)**

StormExx


Storm Water In
Grate
Stainless Steel
Support System
Overflow
HDPE Housing
Filter Cartridge
(Filtrexx® EnviroSoxx®
FilterMedia™+ Sorbents)
Captured Sediment, Gravel,
Trash and Debris
Treated Water Out
Existing Catch Basin

- 100% NATURAL
- EASY DISPOSAL
- LIGHTWEIGHT
- NONFLAMMABLE

- **BIOLOXX**
- **APPLICATIONS**

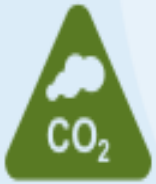
- **• Oils**
- **• Gasoline**
- **• Antifreeze**
- **• Diesel**
- **• Paint**
- **Oils on top of water**
- **Many other liquids**

BIOLOXX

- Silica Free
- 1 25lb bag absorbs more than twice what a 40 lb bag of clay base material.
- Does not create nuisance dust.
- 25lb bag can absorb up to 12 gal. of liquid.
- Renewable / Sustainable

OUR POSITIVE IMPACT ON THE ENVIRONMENT

845K tons of organic waste diverted from landfills



1.8M tons of CO2e prevented & sequestered from atmosphere

equivalent to

163K tons of sediment prevented from waterways

375K cars removed from highways/roadways

SUSTAINABLE & MADE IN THE USA

Numbers are for the year 2019

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Questions?