

EXECUTIVE SUMMARY

About Filtrex

After years of research and development, Filtrex[®] Soxx[™] technology has expanded into stormwater management, sediment control, erosion control, pollutant removal, and living walls. Our sustainable solutions, built around our proprietary Soxx[™] technology, are used in diverse applications such as perimeter control, inlet protection, check dams, slope interruption, runoff diversion, sediment trap, channel protection, bank stabilization, living walls, green roofs, filtrations systems, and more. Headquartered in Akron, OH, Filtrex has an extensive network of partners and distributors to serve customers across the globe.

Filtrex Mission

- To be the world's leading provider of innovative and sustainable products and services for use in erosion and sediment control, stormwater management and low impact development to protect our soil, water and environment;
- To continually engage, develop and inspire our employees to reach their fullest potential;
- To provide the highest level of customer service through reliability, quality and value.

Quantifying the Impact of Practices with EcoPractices

The benefits were determined through EcoPractices' unique process in collaboration with Dr. Faucette, Filtrex Director of Research, Technical, and Environmental Services. EcoPractices provides Filtrex clients with third party verification of practices with environmental impact value quantification in quarterly update reports and annual Sustainability Analysis Reports that can be tailored for your operation.

Filtrex is the inventor of the Compost Filter Sock for Sustainable Management Practices (SMPs)



EcoPractices Product Solutions Partner: Filtrex

Filtrex seeks to put evidence-based measurements to its products. EcoPractices independent process brings more depth to decision-making for customers to select a Sustainable Management Practice over conventional unsustainable products.

“EcoPractices is proud to partner with Filtrex, a leader in the erosion control and stormwater management industries” said John Harsch, EcoPractices President and COO. “EcoPractices and Filtrex both strive to inspire and engage companies to be leaders of sustainability. Filtrex Soxx are a perfect example of a product that produces reliable, high performance results using a low-impact process that mimics nature.”

“Filtrex Soxx are one of the few stormwater management and erosion control products with independent performance results,” said Rob Carrothers, President of Filtrex.

“Combining efforts to verify and communicate environmental stewardship through measurable metrics and the use of an SMP like Filtrex Soxx technologies makes teaming with EcoPractices a logical choice.”

[Check out our press release announcing our partnership.](#)



A YEAR IN REVIEW

Awards

Filtrexx received an award during the annual US Composting Council Conference awards ceremony for their continued support of the Composting Council Research & Education Foundation (CCREF). The award was given for encouraging more educational, research and awareness growing opportunities for compost manufacturing, industry professionals, and organics recycling overall.



In December 2017, Filtrexx received the U.S. Green Building Council Orange County 'Eco Award' for Most Sustainable Landscape, in recognition of work in designing and developing the sustainable Living Wall Design Center as part of The Nursery by Southwinds™ located at the Great Park of Orange County (Irvine, CA). The Eco Award program honors the accomplishments in sustainable practices and educates the Orange County public about sustainable places and businesses in the county.



Dr. Britt Faucette. Ph.D., CPESC, LEED AP

Dr. Faucette had another busy year with Filtrexx in 2017 with his involvement in the industry. In February, he spoke at the IECA annual conference in Atlanta, Georgia. He participated in 14 webinars for Filtrexx's products and environmental benefits. He is considered faculty for Forester University and presented multiple presentations to the Forester community. These webinars combined for 2017 reached well over 1,000 professionals. He worked on specifications in 14 state agencies for Compost Filter Socks and is on two technical committees for ASTM. He is a Board Trustee on the USCC Research & Education Foundation and co-authored *The Compost & Climate Connection; A Land Managers Guide to Organics*. He is a founding member of The Living Soil Alliance and is a Technical Advisor for Elemental Impact, a non-profit dedicated to zero waste. He authored *Compost-based SMPs deliver ecosystem benefits* in World Water Stormwater Magazine. He also wrote two new white papers featured on Filtrexx's website: *LEED Green Building Credits Using Filtrexx Organic BMPs* and *Understanding and Identifying Compost Filter Media used in Compost Filter Socks*.

Identifying Media

Filtrexx published *Understanding and Identifying Compost Filter Media used in Compost Filter Socks* to explain the science behind their media in Filtrexx products. Filtrexx Products are the highest performing Compost Filter Socks in the industry and they prove why! [Learn more.](#)

Media in Products



AlternativeMedia™ Consists of Non-Composted Woody Material



FilterMedia™ Consists of Coarse Composted Material



GrowingMedia™ Consists of Fine Composted Material

Announces 2017 Environmental Impact

As a preview to Filtrexx's annual Sustainability Analysis Report generated by EcoPractices, Filtrexx issued a press release to excite and illuminate their customer base. "These numbers are important in a pure environmental sense," said Dr. Britt Faucette, Ph.D., CPESC, LEED AP, Filtrexx Director of Research, Technical, and Environmental Services. "We are doing as much as we can to have a positive, restorative impact on the planet. Keeping the water as clean as we can, reducing greenhouse gas emissions, keeping waste out of our landfills are pretty important to environmental sustainability goals and part of our company's mission."

2017 Environmental Impact Through the Use of Filtrexx Products



775,731 tons of organic waste recycled/diverted from landfills



150,106 tons of sediment prevented from waterways



1,616,547 tons of CO₂e prevented/sequestered from atmosphere



316,970 cars removed from roadways (equivalent to CO₂e prevented)



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Thank you to our customers & partners for helping us make this impact on our planet!

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ENVIRONMENTAL BENEFITS FROM 2017 TOTAL PRODUCT SALES



Soxx Support Organizations



U.S. Army Corps of Engineers®



1,616,547 tons of CO₂e prevented and sequestered from the atmosphere:

ENVIRONMENTAL BENEFITS FROM EMISSION PREVENTION

In 2017, Filtrexx utilized waste materials to fill SiltSoxx, Living Walls, and compost blankets that resulted in significant environmental benefits. These annual benefits are listed below based on emission prevention and emission sequestration.



775,730

Tons of organic wastes such as wood chips, diverted from a landfill

which is the same as



which is equivalent to:



63,954

Dump trucks of organic matter saved from our landfills



1,357,528

tons reduction of carbon dioxide equivalents (CO₂e) which is equivalent to



263,598 fewer passenger cars on the road each year



or **6,722 rail cars of coal** not burned (672,177 tons)



or **Average yearly energy use by 132,961 American homes**



as much as **150,106 tons of sediment** prevented from entering waterways resulting in less water pollution for cleaner water.

ENVIRONMENTAL BENEFITS FROM EMISSION SEQUESTRATION

Filtrexx GroSoxx are built into Filtrexx LivingWalls and Filtrexx Compost Blankets by adding compost to the soil.



387,865 Cubic yards of compost utilized by Filtrexx out of their 775,730 tons of organic waste diverted from a landfill in 2017.

ACCORDING TO THE US COMPOST COUNCIL:

- ④ Improves the soil structure, porosity, and density, creating a better plant root environment.
- ④ Increases infiltration and permeability of heavy soils, reducing erosion and runoff.
- ④ Improves water holding capacity, reducing water loss and leaching in sandy soils.
- ④ Supplies a variety of macro and micronutrients.
- ④ May control or suppress certain soil-borne plant pathogens as well as bind and degrade specific pollutants.
- ④ Supplies significant quantities of organic matter.
- ④ Improves cation exchange capacity (CEC) of soils and growing media, improving their ability to hold nutrients for plant use.
- ④ Supplies beneficial microorganisms to soils and growing media.
- ④ Improves and stabilizes soil pH.



CARBON SEQUESTRATION BENEFITS FROM COMPOST

Carbon sequestration is the long-term storage of carbon dioxide occurring from biological, chemical, and physical processes. When compost is added to soils it increases the microbial activity and promotes plant growth. With healthy soils brings carbon sequestration.



Filtrexx's Utilization of Compost has resulted in as much as **259,014** tons of carbon sequestration which is equivalent to



the CO₂ sequestration of **275,547** average acres of US forest in a year

CARBON SEQUESTRATION FROM PLANTS

By utilizing a living wall with active growing plants, it sequesters additional carbon during the photosynthesis process.



Vegetation growing in Filtrexx GroSoxx on Living Walls could add an additional **1,641 to 4,102** tons of carbon sequestration which is equivalent to as much as



the CO₂ sequestration of an additional **4,364** average acres of US forest in a year



as much as **328,128** gallons of water able to be filtered and absorbed by compost in these living walls.



An Evaluation by **ECOPRACTICES**, a division of SEC.

This report is a collection of results from products generated and sold by Filtrexx International in the 2017 year. This summary must not be edited or altered in any way without the involvement and consent of EcoPractices.

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USDA Biobased 100% applies to SiltSoxx, GroSoxx, GardenSoxx. Regulatory compliance may depend on individual federal/state regulations. Filtrexx, the Branch & Leaf logo and GroSoxx are Registered Trademarks of Filtrexx International. Soxx is a Trademark of Filtrexx International. US Patents 7,226,240; 7,452,165; 7,654,292; 8,272,812; 8,439,607; 8,740,503; 8,821,076; and 9,044,795 may apply & patents pending.

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