 HOW TO USE THIS MANUAL

ACKNOWLEDGMENTS

1.0 CONSTRUCTION: SEDIMENT & EROSION CONTROL: SPECIFICATIONS & DESIGNS
1.1 Perimeter Control
1.2 Inlet Protection
1.3 Check Dams
1.4 Concrete Washout/Filter Ring
1.5 Slope Interruption
1.6 Runoff Diversion
1.7 Compost Vegetated Cover (CVC)/Temporary Seeding
1.8 Compost Erosion Control Blanket
1.9 Sediment Trap

2.0 POST-CONSTRUCTION: STORMWATER MANAGEMENT AND LOW IMPACT DEVELOPMENT: SPECIFICATIONS & DESIGNS
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2.2 Filter Strip
2.3 Engineered Soil
2.4 Channel Protection
2.5 Bank Stabilization
2.6 Filtration System
2.7 Rain Garden Bioretention System
2.8 Green Roofs
2.9 Bioswale
2.10 GroSoxx® Gabion

3.0 POST-CONSTRUCTION: LIVING WALLS: SPECIFICATIONS & DESIGNS
3.1 GreenLoxx® Non-MSE Vegetated Living Wall
3.2 GreenLoxx® MSE Vegetated Living Retaining Wall

4.0 POLLUTANT REMOVAL
4.1 Filtrexx EnviroSoxx® Pollutant Removal

5.0 SUPPORT PRACTICES
5.1 FilterMedia™
5.2 GrowingMedia™
5.3 LockDown™ Netting
5.4 FLW Geogrid Systems
5.5 Drip Tape Irrigation System
5.6 Crimson Clover

6.0 SWPPP CUT SHEETS
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6.6 Runoff Diversion
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6.2.9 Bioswale
6.2.10 GroSoxx® Gabion

7.0 APPENDIX

Filtrexx Tech Link Series

#3303 Faucette, B. 2006. C Factors for compost and rolled erosion control blankets.
#3304 Faucette, B. 2006. Flow Through Rate, Design Height, and Design Capacity of SiltSoxx™ and Silt Fence.
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#3312 Faucette, L.B. 2006. Is Filtrexx Slope Protection Really an Erosion Control Blanket?
#3316 Faucette, L.B, Alex Marks, and Rod Tyler. 2007. Soil Quality: A Comparison of Compost ECBs and Hydroseed Applications.
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Federal Standard Specifications

HOW TO USE THIS MANUAL
Welcome to the eleventh edition (11.0) of the Filtrexx International Standard Specifications and Design Manual for Erosion, Sediment, and Pollution Control and Storm Water Management Practices. Although this manual may be used by anyone interested in the technical aspects of using compost practices and/or Filtrexx International products for erosion and sediment control and storm water management applications, it is intended to assist engineers, architects, land planners, and other technical and design professionals to more easily and readily specify and utilize these practices in their design plans.

Secondarily, as state agencies begin the needed process of updating their erosion and sediment control or storm water design manuals, this manual and the sections herein shall serve as templates or ready to use sections that can be adopted by state agencies for their updated standard specification and design manuals. This design manual has been expanded into seven principle sections:

Section 1.0: Erosion and Sediment Control - Construction Activities;
Section 2.0: Storm Water Management - Post-Construction Activities;
Section 3.0: Living Walls - Post-Construction Activities;
Section 4.0: Pollutant Removal;
Section 5.0: Filtrexx Support Practices;
Section 6.0: Filtrexx SWPPP Cut Sheets;

While there is significant overlap between sections, and common sense tells us they should not be separated, many existing state manuals currently divide these areas of design and planning. Specifically, pertaining to this manual, Section 1.0 will address practices for construction activities and land disturbing activities, Section 2.0 and 3.0 will address practices for post-construction and long-term management of storm water, and Section 4.0 and 5.0 describes specific support practices that can increase the performance of those practices described in Section 1.0, 2.0, and 3.0.

Whereas, this manual is intended primarily for design professionals it does not constitute a work of research but does, where applicable, rely on completed and published research, or test results from reputable laboratories, to generate the performance and design information provided herein. Preference is given to research published in peer-reviewed scientific journals, and secondarily to third party research conducted by universities and federal agencies or applied field research from known success on case studies. As new research and results from testing programs becomes available it shall be incorporated into the performance and design information in this manual, meaning this manual is a dynamic living document and will continually be updated.

Design drawing details and photographs have been included in each section for most Filtrexx products and practices; these may be used without permission for individuals or groups preparing erosion and sediment control or storm water pollution prevention plans. An appendix included at the end of the design manual will contain referenced and relevant technical reports and research papers. On behalf of the staff at Filtrexx International and the courageous team of technical reviewers who helped make this possible, we hope you find this manual useful and helpful in your endeavors.

Dr. Britt Faucette, Ph.D., CPESC, LEED AP
Director of Research, Technical, & Environmental Services
Filtrexx International
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ADDITIONAL INFORMATION
For other references on this topic, including additional research reports and trade magazine and press coverage, visit the Filtrexx website at filtrexx.com

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