FocalPoint Biofiltration Provides Efficient Stormwater Treat and Release Retrofit

Hart Brook Restoration Project, Lewiston, ME

* Reduced Infrastructure Cost * Reduced Overall Maintenance Cost *

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FOCALPOINT BIOFILTRATION SYSTEM PROFILE

18” High Performance Media:
Flows at 100” Per Hour, Resistant to Clogging

Pollutant Removal:
TSS = 91%
Nitrogen = 48%
Phosphorus = 66%

High Performance Underdrain:
9.45” Modular Tank, or “Flat Pipe” w/95% Open Surface Collects Water Efficiently.
Optional 2” Low-Profile Panel Addresses Shallow Applications.
Expand into Modular Tanks for Larger Storage Needs.

3” Layer of Shredded Hardwood Mulch:
Pre-treatment mechanism.
Removal and Replacement of Mulch Represents the Bulk of System Maintenance!

6” Bridging Stone & Separation Layer:
Clog-Proof Clean Stone & Micro-Mesh Replace Traditional Geotextile Layer
No geotextile = no clogging
The FocalPoint footprint was excavated and a stone base was placed at the required elevations.

Three FocalPoint BioFilters were constructed to handle the regulatory Water Quality Volume (WQv). All three followed the following construction sequence.
Quality Assurance / Quality Control (QA/QC):
All Components of the FocalPoint System are sold as a bundle to provide raw material quality control.
Geotextile and then High Performance Underdrain is Placed: 9.45” Modular Tank w/95% Void Space.

Standard System Depth = 36”, Can be modified Down to 29”
The outlet pipe from the underdrain was tied into existing runoff infrastructure in this typical “treat and release” application.
Mesh and Bridging Stone Layer are Placed
Clean Stone and Micro-Mesh Replace traditional Geotextile Separation Layer

No Geotextile = No Clogging
### 18” High Performance Media:

- Flows at 100” Per Hour / 200 Foot Per Day
- Resistant to Clogging
- Flows Faster With Age as Root System Grows

### Pollutant Removal:

- TSS = 91%
- Nitrogen = 48%
- Phosphorus = 66%

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**Placement of High-Flow Media Begins**

**High-Flow Media in Place**

**QA/QC Provides Media Certification**
Mulch is placed from super-sack and the FocalPoint BioFilter is ready for plantings and activation.

Completed 91 sq ft FocalPoint Biofiltration System
Completed FocalPoint Biofiltration Systems

Owner: City of Lewiston
Contractor: Pratt and Sons, Inc.
FocalPoint Maintenance Manual:
Provides Comprehensive Guidance & Record Keeping Tools.
1st Year of Maintenance Included!

- Remove & Replace Mulch
- Clean Sediment Entry Points
- Pick Up Trash
ACF’s Engineering team can provide project specific support or you can access the tools below:

- Specifications
- Calculator
- CAD Details
- Flow Rate & Pollutant Removal Documentation
- Media Certification
- Installation & Maintenance Manuals
- Performance Guarantee
- And More!