

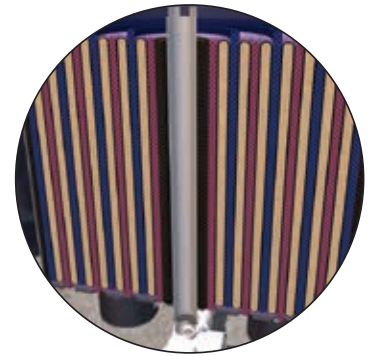
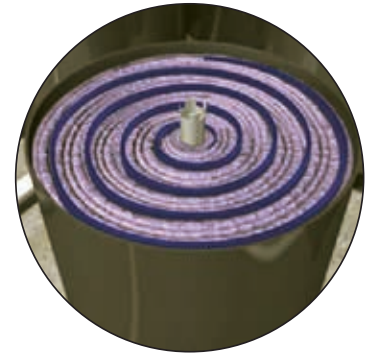
BAYFILTER™ STORMWATER FILTRATION SYSTEM

With over eight years in research and development, the BayFilter is the most efficient, effective, economical, and easy-to-use stormwater treatment filter on the market today. A BayFilter system may be a single cartridge or multiple cartridges to satisfy any treatment flow requirement.

Utilizing concrete (manholes, pre-cast, or cast-in-place) vaults, an easy-to-handle cartridge design, a proven mixed media filter, and a proprietary spiral wrapped layered construction, BayFilter removes very fine sediment and nutrient pollutants at an astounding maximum flow of 45 GPM per cartridge. The vertically spiralled layered design maximizes flow rates and filter media area for the most effective stormwater treatment, while up-flow filtration allows for BayFilter's unique hydrodynamic backwash cleansing process. This process dislodges pollutants and restores the porosity of the mixed media filter. Dedicated drain-down devices assure no standing water between storms.

FEATURES:

- The most effective filtration offers enhanced pollution prevention which is providing cleaner stormwater runoff.
- BayFilter systems remove greater than 85% Total Suspended Solids (TSS) and 65% of turbidity
- Easy to specify, install, and maintain
- Available in different configurations (manhole filter, precast vault filter, cast-in-place vault filter, and catch basin filter)
- Systems are fully customizable
- BayFilter with enhanced media is capable of removing 65% of the total phosphorus load.
- Cartridges may be recycled
- Internal drain-down cartridge feature is built into the filter, allowing manhole/vault to empty even after siphon has broken and cartridges are not engaged
- Excellent abrasion and corrosion resistance



BENEFITS:

- Reduced life cycle costs
- Customizable systems meet the needs of each specific project
- Low maintenance costs
- Reduces mosquitoes and other diseases from breeding within the system
- Prevents system from becoming anaerobic during dry periods



BAYFILTER STORMWATER FILTRATION SYSTEM SPECIFICATIONS

Products

- **Internal Components:** All components including concrete structure(s), PVC manifold piping and filter cartridges, shall be provided by BaySaver Technologies LLC, 1030 Deer Hollow Drive, Mount Airy, MD (800.229.7283).
- **PVC Manifold Piping:** All internal PVC pipe and fittings shall meet ASTM D1785. Manifold piping shall be provided to the contractor partially pre-cut and pre-assembled.
- **Filter Cartridges:** External shell of the filter cartridges shall be substantially constructed of polyethylene or equivalent material acceptable to the manufacturer. Filtration media shall be arranged in a spiral layered fashion to maximize available filtration area. An orifice plate shall be supplied with each cartridge to restrict the flow rate to a maximum of 45 gpm.
- **Filter Media:** Filter media shall be by BaySaver Technologies LLC and shall consist of the following mix: a blend of Zeolite, Perlite and Activated Alumina.
- **Precast Concrete Vault:** Concrete structures shall be provided according to ASTM C. The materials and structural design of the devices shall be per ASTM C478, C857 and C858. Precast concrete shall be provided by BaySaver Technologies, LLC.



Performance

- The stormwater filter system is capable of treating 100% of the required treatment flow at full sediment load conditions.
- The stormwater filter system's cartridge units shall have no moving parts.
- The stormwater treatment unit shall be designed to remove at least 85% of total suspended solids, 65% of total phosphorus, 65% of turbidity, 60% of total copper and 60% of total zinc based on field data collected in compliance with the Technology Acceptance Reciprocity Partnership Tier II test protocol.
- The stormwater filtration system shall reduce incoming turbidity (measured as NTUs) by 65% or more and shall not have any components that leach nitrates or phosphates.
- The stormwater filtration cartridge shall be equipped with a hydrodynamic backwash mechanism to extend the filter's life and optimize its performance.
- The stormwater filtration system shall be designed to remove a minimum of 65% of the incoming Total Phosphorus (TP) load.
- The stormwater filtration system's cartridge units shall have a treated sediment capacity for 80% TSS removal between 150-350 lbs.



Design Flow per Cartridge—gpm Nominal	45
Treated Sediment Load for 80% Sediment Removal—lbs.	350

Installation

Installation of the BayFilter System(s) shall be performed per manufacturer's Installation Instructions.

For more information on BayFilter Stormwater Filtration System and other products, please contact our Customer Service Representatives at 1-800-229-7283.