

# STORMWATER

## MANAGEMENT SYSTEMS





# THE FUTURE OF WATER IS THE WORK OF TODAY

When it comes to water, we all have a common challenge: keeping groundwater and waterways clean, and providing clean water to our communities.

**HydroChain Stormwater Management Systems solve both challenges, with all the structures and water-quality components needed for a comprehensive treatment train.**

Through strategic partnerships, Shawcor Ltd. expands its base of corrosion-resistant tanks to provide a comprehensive water-quality system. We help you build a HydroChain System best suited for your project. From a selection of composite infiltration and storage structures to treatment and filtration components, we have what you need to meet the requirements for your site.

**MANAGE**  
Water Volumes

**PREVENT**  
Water Pollution

**RESTORE**  
Water Quality



*10 trillion+ gallons of untreated stormwater enter U.S. waterways each year*

## STORMWATER RUNOFF IS THE MAIN CAUSE OF CONTAMINATION TO SURFACE AND GROUNDWATER.

Changing weather patterns and rapidly growing urban populations add pressure to aging infrastructure. Thirty percent of pollutants in U.S. waters comes from untreated stormwater runoff. Treatment is a key best management practice for stormwater so water can be safely discharged into waterways or reused. In the United States alone:

**70%**

Growth of urban population by 2050

**30%**

Of pollutants in U.S. waters are from untreated runoff

**750+**

Cities in need of new stormwater infrastructure

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## STORMWATER MANAGEMENT IS COMPLEX

### PLANNING DOESN'T HAVE TO BE

Our engineers provide design support so that you have all the products and technology you need — whether it's a total treatment system or individual pretreatment, filtration, infiltration or storage components. All parts of the system are easy to install and maintain — no matter how large or small the project is. To start a conversation about your next project, contact us at [watersales@shawcor.com](mailto:watersales@shawcor.com).

Here's how customers describe our products:

- *Higher than expected service life*
- *Problem-free in handling and installation*
- *Amazing in terms of performance and maintenance*

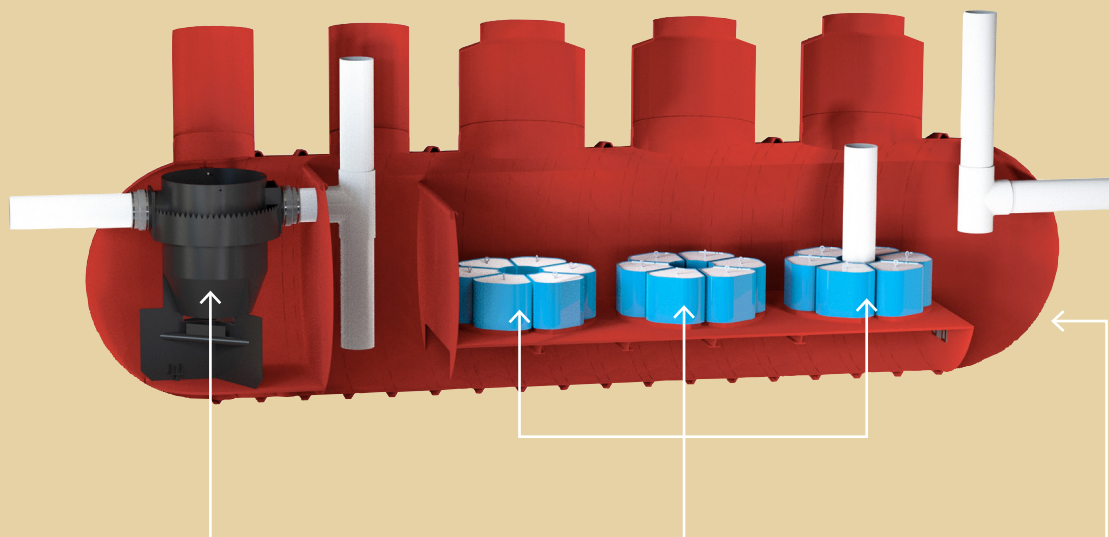


# A TREATMENT TRAIN IN A COMPOSITE TANK

With fiberglass tanks, chambers and vaults, and the products of our water-quality treatment partners, we help you build a complete stormwater management system designed for optimum performance.

To simplify the process even more, our **HydroChain Complete** includes all the HydroChain Prime Separators and HydroChain Filter Cartridges your project needs to treat stormwater – all within a fiberglass tank. When a project calls for more than one HydroChain Complete, any number can be installed at the same site. This innovative product manages and treats stormwater, restoring it to a clean, usable state.

All treatment components are in the process of being certified by the New Jersey Department of Environmental Protection (NJDEP) and being designated for use by the Washington State Department of Ecology (WADOE).



The **Prime Separator** removes trash and debris, and petroleum hydrocarbons, suspended solids and heavy metals.

**Filter Cartridges** remove liquid-bound and sediment-bound nutrients, hydrocarbons, heavy metals and solids

The composite **corrosion-resistant Tank** is available in diameters of 8' to 15.5'

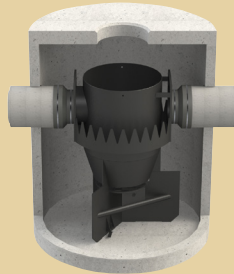
## CHOOSE WATER-QUALITY OPTIONS

### Pretreatment

Pretreatment makes every stage of treatment more efficient by removing solids, sand, trash, oil and grit from stormwater before it flows into other water-quality components, or into treatment tanks, chambers and/or vaults.

#### HYDROCHAIN PRIME SEPARATOR

This separator captures trash, debris and floatables and can be installed in concrete or fiberglass manholes



#### HYDROCHAIN OIL INTERCEPTOR

The principles of Stoke's Law and a horizontal flow pattern result in high-efficiency performance for large volumes, with oil rising to the top, and grit and sediment sinking to the bottom of the tank



#### HYDROCHAIN COMPLETE

*See description on previous page.*

#### HYDROCHAIN OIL-WATER SEPARATOR

*See description below.*

### Filtration

Stormwater is cleaned by sedimentation, adsorption and filtration to remove suspended solids, petroleum hydrocarbons, heavy metals and nutrients.

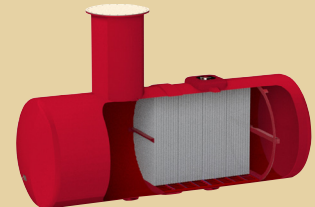
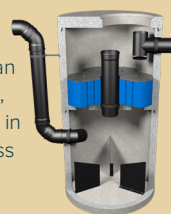
#### HYDROCHAIN FILTER CARTRIDGES

Activated carbon and zeolite filter replacement cartridges can be configured in any quantity for large volumes of stormwater. They can be installed in manholes, chambers, tanks, vaults or the Vortex Filter.



#### HYDROCHAIN VORTEX FILTER

This hydrodynamic system combines sedimentation with an upflow filter process, and can be installed in concrete or fiberglass manholes.



#### HYDROCHAIN OIL-WATER SEPARATOR

Coalescing technology in a fiberglass tank removes free-floating oils and settleable solids from oil-water mixtures, and produces required effluent quality requirements for runoff.

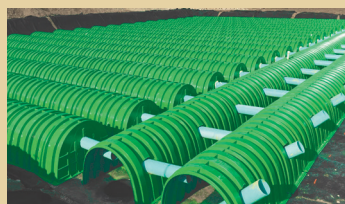
## CHOOSE INFILTRATION AND STORAGE OPTIONS

Composite tanks, chambers or vaults can form the foundation of the system. They are used for detention, retention and/or filtration.



#### HYDROCHAIN TANK SYSTEM

Large-diameter, field-jointed fiberglass tank sections can be installed in any length or number of rows to meet project requirements.



#### HYDROCHAIN TRITON CHAMBER

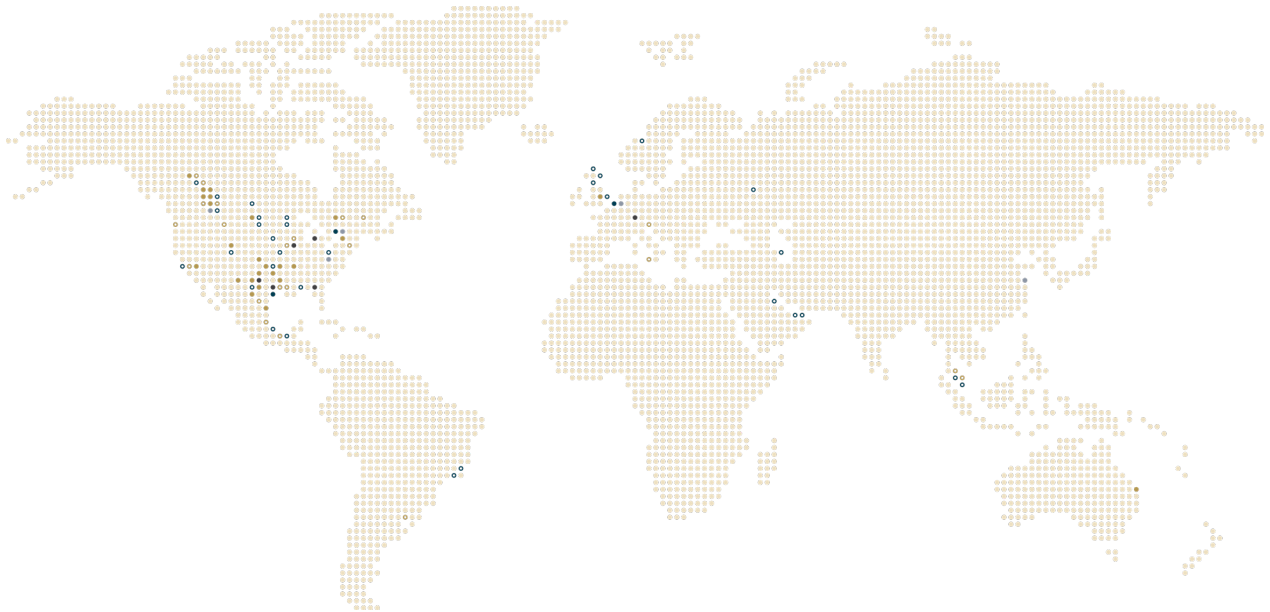
Structurally strong, eco-friendly composite chambers are surrounded by stone to maximize per-foot infiltration.



#### HYDROCHAIN TRITON VAULT

Composite double-barrel, cross-sectional vaults maximize space and minimize stone required for large-volume infiltration.

# WORKING ON WATER



50 years

Underground installation  
of composite products

20 years

Proven treatment  
technology

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## THE SHAWCOR DIFFERENCE

We provide clients with the best technologies, products and services for their projects. Our goal is to exceed their expectations with unparalleled expertise, delivery, performance and value. We do this every step of the way — from project planning through the life of each project.





## ECO-FRIENDLY COMPOSITES

Engineers in every industry recognize the material benefits of composites. In construction, infrastructure, energy, aerospace and transportation – composites are fast replacing traditional materials.

When it comes to stormwater management systems, our customers attest to the specific advantages of corrosion-resistant, lightweight composites.

*“The fiberglass tank is an extremely strong, durable product that doesn’t deteriorate over time. As more developers install and use fiberglass tanks, more will be sold, because more of us will see the advantages.”*

*“The strong, lightweight chambers and flexible design options made the chambers the obvious choice. It provided the storage needed in an efficient, cost-efficient manner – and the ease of installation was a bonus”.*





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