



StormTrap®

MODULAR CONCRETE
STORMWATER MANAGEMENT



TREATMENT SOLUTIONS

FOR

**Stormwater,
Urban Runoff and
Combined Sewer Overflow
(CSO) Discharges**

SiteSaver®

StormTrap® is committed to improving water quality and offers innovative solutions for removing pollutants from stormwater before they are discharged into rivers, lakes and oceans.

StormTrap's patented treatment solution, SiteSaver®, is a unique hydrodynamic separator that utilizes disposable mesh nets or baskets, inclined plate technology and baffles to capture and easily remove trash, debris, floatables, hydrocarbons and sediment.

ADVANTAGES

Proven Performance

- More than 20 years of product experience in manufacturing, installing and maintaining systems
- Certified by the California State Water Resources Control Board as a full capture/ high flow capacity trash device
- NJDEP Certified HDS configurations available
- NJCAT Verified Test Data



Trusted Technology

- Three dimensional basket/netting technology removes floatables, trash, and debris while providing a larger surface area than traditional two dimensional screens
- Nets/baskets can accommodate a large volume of material (standard sizes 25-50cf/net)
- Nets/baskets do not need mechanical mechanisms to remove blockages, therefore decreasing operational maintenance frequency
- Inclined plate settling technology dramatically increases the effective settling area of a physical footprint by creating parallel operating settling cells that overlap and self-clean during flow events

Quick Installation

- Prefabricated, modular system enables quick installations
- Low capital and installation costs
- On-site supervision available on each project

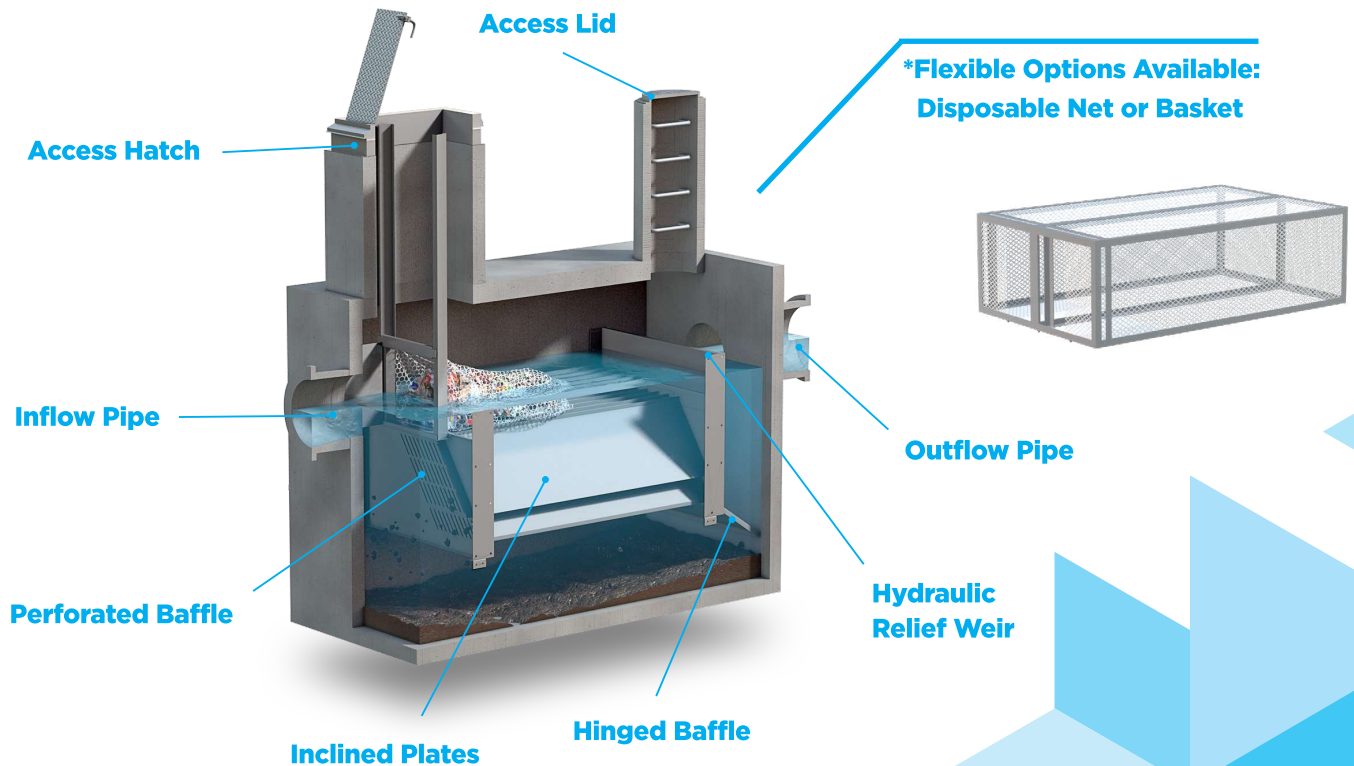
Easy Maintenance

- Accessible for inspection and maintenance
- No confined space entry is required, as maintenance is done at the surface
- Long service life, with cost-effective maintenance
- Scales can be attached to lifting equipment for easy measurement of debris for environmental permit requirements
- Maintenance contract services are available through StormTrap
- Remote monitoring technology (optional)

Efficient Design

- Engineered to meet site-specific requirements, can accommodate virtually any flow
- Internal hydraulic relief prevents flooding while completely containing trash and debris, even when the event exceeds the design flow
- Trash and debris are contained and drain dry reducing further decay and leaching of pollutants into water
- Durable, high-strength precast concrete modules can easily retrofit into almost any stormwater system
- HS-20 standard loading and can accommodate higher load capacities
- Negligible headloss, as system does not rely on head pressure to function
- Excels in a variety of markets including residential, commercial, manufacturing and industrial applications
- Shallow depth of system reduces overall excavation

COMPONENTS



SYSTEM FUNCTIONALITY

Stormwater enters the SiteSaver through an inflow pipe and exits through an outflow pipe that is placed at the same elevation. Upon entering the system, floating matter is contained in the net or basket while hydrocarbons are contained on the inlet side of the hydraulic relief weir. Stormwater is then conveyed through the insert, first through a perforated baffle and then into the inclined plate settling area where sedimentation removal occurs. The stormwater then travels through a perforated weir prior to discharge via the outlet pipe. During high flow events, the weir also acts as an internal bypass when flows exceed the capacity of the inclined plates. A hinged baffle is also attached to the hydraulic relief weir to decrease resuspension of captured pollutants.

SiteSaver also contains and removes gross pollutants, such as trash and debris, using basket or netting components that can also be housed within the same structure as the inclined plates, baffles and weir insert. If the trash containing device is utilized, the stormwater travels through the netting or basket prior to entering the insert of inclined settling plates in order to avoid clogging the insert with large debris. Hydrocarbons are contained within the device throughout the entire footprint area prior to the hydraulic relief weir and to a depth from the invert of the outlet pipe to the top of the orifice openings in the perforated baffles. Additional hydrocarbon treatment can be achieved by the addition of optional oil sorbent booms behind the trash containing device.

TREATMENT TRAIN



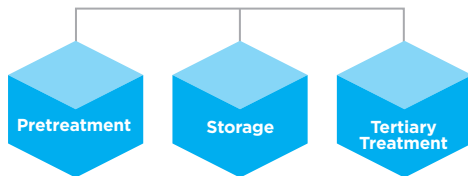
The SiteSaver system can be utilized as a stand-alone device or work in a treatment train approach.

A treatment train is comprised of three main components: pretreatment, storage, and tertiary treatment. In this approach, SiteSaver is utilized as a pretreatment product that handles a variety of TMDL solutions including: trash, sediment, hydrocarbons, total phosphorus, nitrogen and heavy metals.

The second phase of the treatment train is the storage component, which is used to manage and control the volume and release rate of stormwater runoff. StormTrap's SingleTrap and DoubleTrap products can be easily designed to provide this solution.

The tertiary stage is the final element of the treatment train process and includes the filtration component. Designed to remove pollutants, such as heavy metals and bacteria, the filtration component can be integrated into the storage system or can remain separate to better fit project specifications.

Treatment Train Approach



COMPLETE SERVICE



Continuing Education

Learn what StormTrap's innovative stormwater solutions can do for your next project while earning PDH credits



Design

Our experienced stormwater professionals will create a customized design and budget with complete set of drawings for your next project



Specifications

Download our product guide specifications to easily integrate StormTrap's products into your plans



Installation

Pre-construction meeting and start-up training
On-site supervision available during installation



Maintenance

StormTrap offers replacement net assemblies as well as maintenance contracts to conduct routine trash/sediment removal and disposal for optimal product function. Coupling annual maintenance with solar powered systems that remotely monitor capacity, ensures efficient, worry-free protection of water quality products.