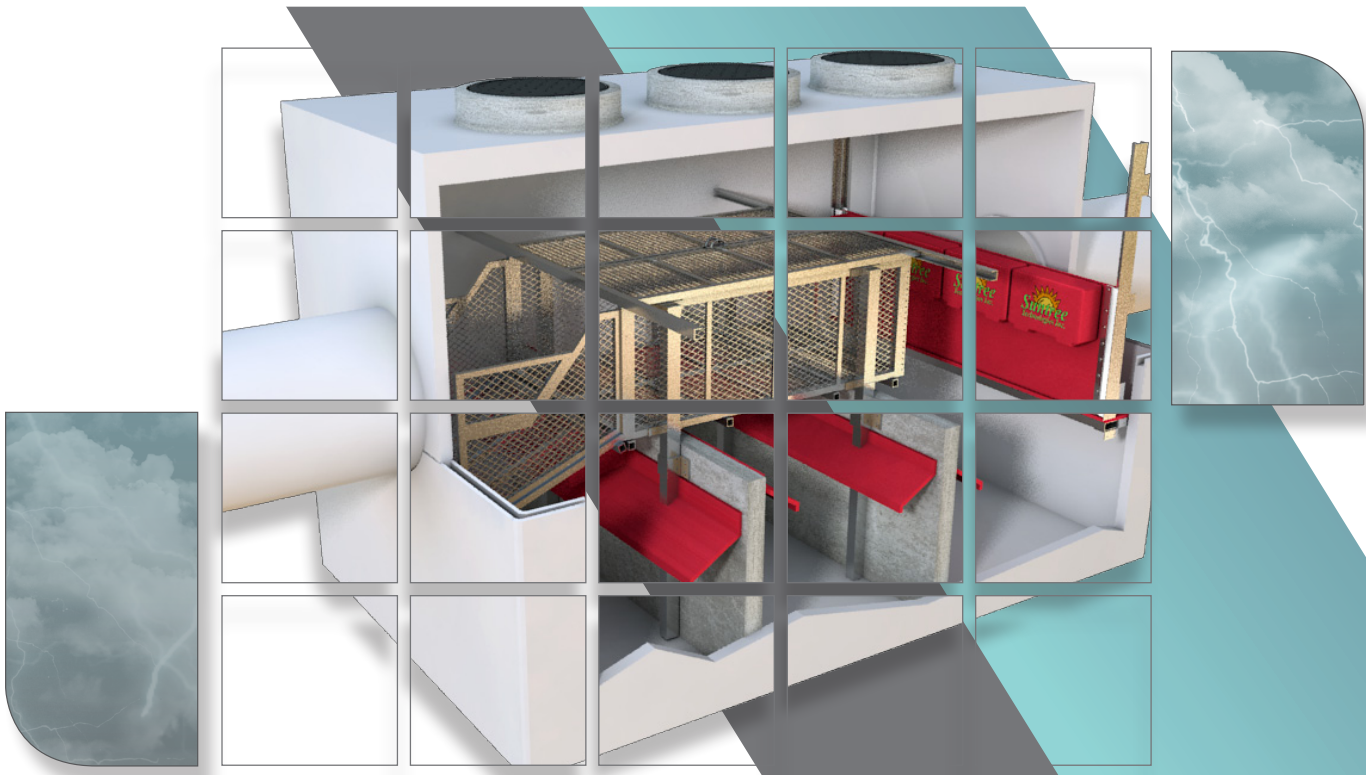


# SUNTREE NSBB™

PROVEN SOLUTIONS for Stormwater Treatment



## WATER QUALITY TREATMENT SYSTEM

### NUTRIENT SEPARATING BAFFLE BOX™

The Suntree Nutrient Separating Baffle Box™ (NSBB) is an advanced stormwater treatment system utilizing screening and hydrodynamic separation to capture pollutants.

The patented screening system, suspended above the sedimentation chambers, captures and stores trash and debris in a dry state. Dry state storage of trash and debris minimizes nutrient leaching, bacterial growth, bad odors, and allows for easier removal.

The NSBB's triple chamber design provides higher removals of total suspended solids over a wide range of particle sizes, including the finest particles. Fine sediments carry large amounts of heavy metals, nutrients and other harmful pollutants.

The patented deflector shield system ensures no scouring of captured sediments during high flow. This feature allows the system to be installed inline, thus eliminating the need for diversion structures.

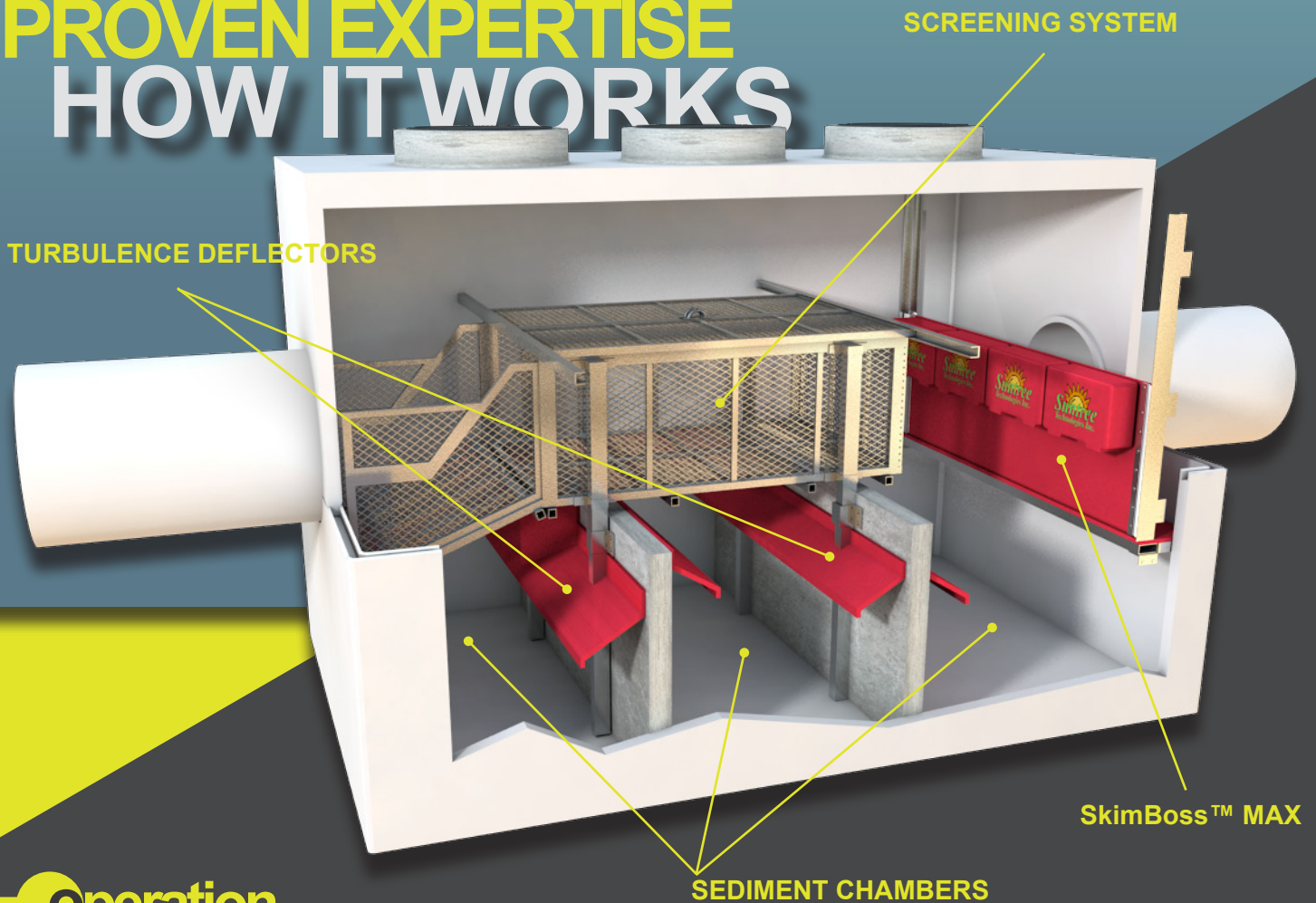
The oil skimmer with hydrocarbon booms traps and absorbs oil into a polymer based media for permanent removal.

In use since 1994, it is a widely accepted stormwater treatment solution among civil engineers, municipalities and developers nationwide.



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# PROVEN EXPERTISE HOW IT WORKS



## Operation

- Filtration Screen - Collects and stores trash, debris, organics, and oxygen demanding substances above standing water in a dry state
- Turbulence Deflectors - Prevents re-suspension of captured sediment
- Sediment Chambers - Maximizes TSS removal and eliminates scouring during extreme flow rates
- SkimBoss™ MAX - Collects hydrocarbons and controls flow velocity which improves removal efficiency

## Installation



**Low Pick Weights:** Delivered in a top & bottom to minimize weight



**Fast Set Time:** Internal components are installed prior to delivery



**Minimal Excavation:** Bottom of structure less than 4 ft. from invert of pipe

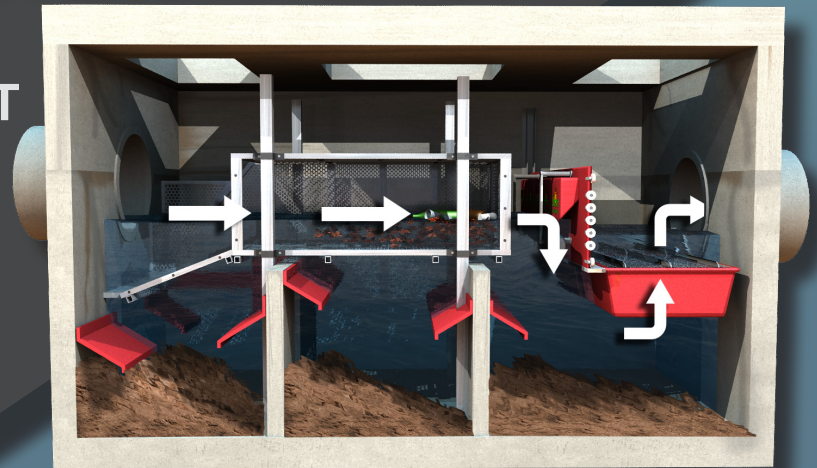


# Optional Upflow Filter

## CAPTURES FOLIAGE LITTER, SEDIMENT, PHOSPHOROUS, HYDROCARBONS...**EVERYTHING!**

### **DURING** STORM EVENT

- Nutrient rich vegetation and litter are captured in filtration screen system
- Sediment settles to the bottom



Bottom of concrete structure is only 4' below the pipe.

### **AFTER** STORM EVENT

- Vegetation and litter is above the static water and dries out between storm events
- With the organic pollutant load separated from the water, the system does not go septic

During servicing, the screen system hinges off to the side to give easy access to the sediment collected in the lower chambers.



## No Chance for Bacterial Discharge!

## **m**aintenance



**Easy access** for vacuum truck through top hatches or manholes

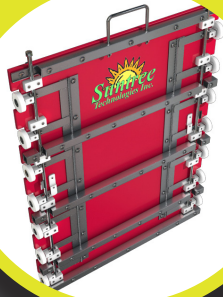


**Full hinged bottom** screen system for full access to lower sediment chambers



**No need for** confined space entry to service the vault

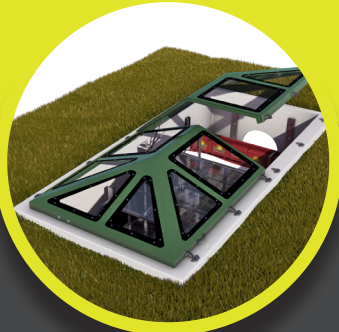
# CUSTOMIZED NSBB OPTIONS



## SUNGATE™

Whether your pipes are submerged or there is a significant base flow the SunGate™ will isolate your treatment system for servicing.

The SunGate™ is available in several varieties and all pipe sizes, including custom sizes.



## SUNTREE OBSERVATION COVER™

When placed in a setting such as a public park, the Suntree Observation Cover™ is an excellent tool to reach out to the community and increase stormwater pollution awareness.



## SkimBoss™ FILTRATION SYSTEM

The SkimBoss™ Filtration System removes dissolved phosphorus and nitrogen from stormwater runoff without clogging typically associated with other media type filtration devices.

### Hydro-Variant™ Technology

The SkimBoss® Filtration System automatically adjusts to accommodate variations in water flow.

During peak flow conditions head loss is negligible.

## STORMBOOM™ MEDIA HYDROCARBON ABSORPTION BOOMS

- » **Type 4** - Polymer crumb filler with a fine sieve size covering. The polymer crumb filler will not absorb water and can float indefinitely, and it will not biodegrade

## PROVEN SUCCESS IN THE FIELD

- No need to enter the confined space of the catchbasin to service
- Multi-stage Filtration Captures everything from hydrocarbons, sediment, grass clippings, and litter
- Easily serviced by vacuum truck without tearing
- Will not cause street flooding - All filters are designed with adequate bypass to meet design flows of the inlet
- Does not need replacement - unlike pesky cartridges or bag filters

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