



News

Suntree Technologies, 798 Clearlake Rd, Cocoa, FL 32922 Ph: 321-637-7552 www.suntreetech.com

On display at the University of Central Florida in the City of Orlando is Suntree Technologies' installation of the Nutrient Separating Baffle Box model NSBB-5-10-89. This structure provides treatment for a 5 acre parking lot adjacent to the arboretum on the East side of campus. On display in the arboretum is a wide variety of stormwater BMPs that serve as functioning educational tools. A uniquely constructed observation lid with ½" thick clear lexan allows full view of the interior components and captured debris to students and visitors.



The lids have hinges along one side so that they can be opened for servicing.

Although this stormwater treatment structure is relatively small in size, with an inside dimension measuring only 5' wide x 10' long, 89" tall, **water treatment is big.**

***Treats up to 15 cfs!
Removal Efficiency
of Greater Than 90%***

University of Central Florida Demonstrates Stormwater Treatment With Nutrient Separating Baffle Box

The entire installation at the jobsite took only six hours, starting at 8:00am and heading out by 2:00pm. The Nutrient Separating Screen system and turbulence deflectors were pre-installed in the concrete box prior to delivery. The elevation of the screen system that captures foliage and litter was set in advance. Any adjustments could have been made quickly and easily at the site if needed.



The delivery truck's boom crane off loads directly into the hole.

System Is Resistant To Bacterial Growth

The internal screen system separates foliage and litter from static water below so that it doesn't get a chance to become a food source for bacterial growth.

Screen systems have stainless steel screens bolted into a heavy duty aluminum framework. The screen systems are hinged to give easy access to the lower chambers, and have a wide range of adjustments to accommodate unforeseen variables during installation. Manhole lids, hatches, and dampers to block off water flow during servicing, can be incorporated into the structure.



Aluminum frame is glassed into a fiberglass body to support the 1/2" thick Lexan.

The observation lid functions as an excellent outreach tool to the public. Everything inside the treatment structure is in full view including the captured debris, and there is no need to open hatches or manhole covers to do an inspection. There are currently a large number of Nutrient Separating Baffle Boxes with observation lids scheduled to be installed in other communities to help create awareness of stormwater issues and to demonstrate municipal involvement in preventing stormwater pollution.

Included in this structure in front of the outflow is a floating skimmer that moves vertically as needed to ensure that it will never be topped by water flow. This eliminates the need for a tall skimmer which could create significant head loss during large rain events. Floating along the face of the skimmer is a hydrocarbon absorption boom that absorbs oils and other petroleum products on contact.



Captured trash and foliage removed from the environment.

Treats the Entire Flow!

Because water flow is not ducted off line for treatment, head loss is minimal and comparable to a large square catchbasin. Because of this, existing stormwater systems can be retrofitted with a Nutrient Separating Baffle Box, without compromising the original design specifications of the existing stormwater system.

Turbulence deflectors in the structure calm the water flow and allow fine sediments & debris to settle without re-suspending. Regular periodic maintenance from standard vacuum trucks are all that is needed to remove the captured debris and contaminants.



A clear demonstration of cleaning our Florida waters.