



SciCloneX™ Separator

A Stormwater Separation Solution

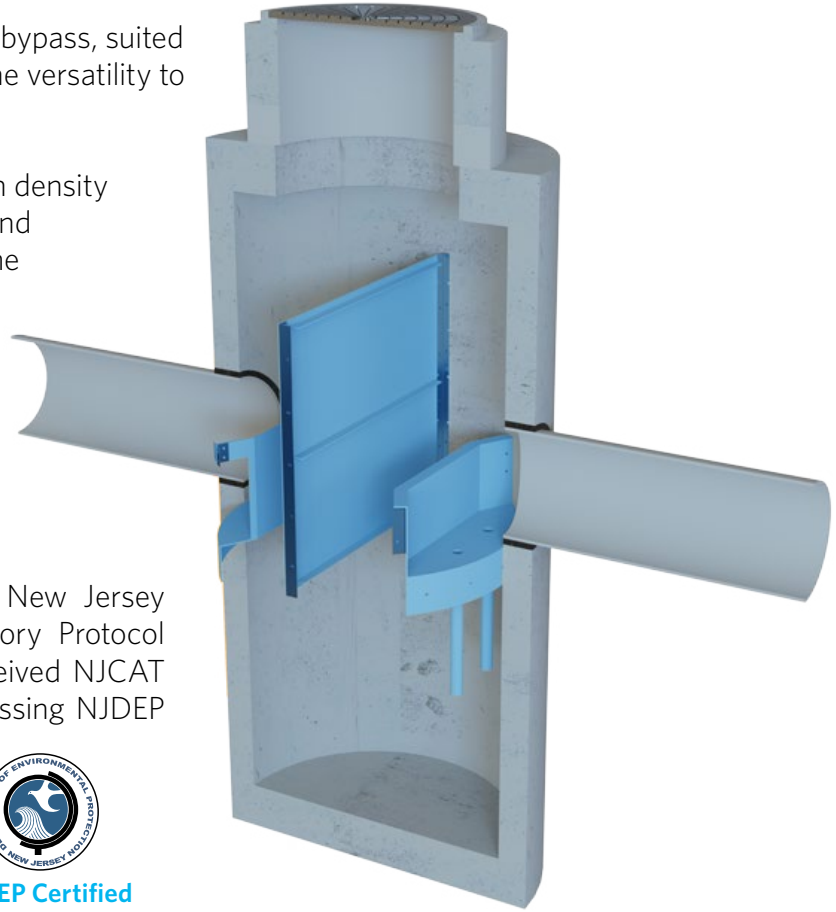


OVERVIEW

Stormwater separators have been used for more than 20 years, but the SciCloneX™ Separator ushers in a new era of capabilities and effectiveness. The upgraded design has granted it an industry leading loading rate (enhanced TSS removal), and improved performance while maintaining all of the cost-effective design features our customers depend on.

The SciCloneX Separator is equipped with internal bypass, suited to capture/retain free-floating oils and trash, with the versatility to accept pipes from various angles.

The SciCloneX Separator is manufactured from high density polyethylene components which are noncorrosive and extremely durable. This comprehensive system is the ultimate combination of reliability and cost-effective hydrodynamic separation.



APPROVALS

NJCAT Verification & NJDEP Certification

The SciCloneX Separator was tested under the New Jersey Department of Environmental Protection Laboratory Protocol for hydrodynamic separators and successfully received NJCAT Verification and NJDEP Certification as well as passing NJDEP Scour Testing.



NJCAT Verified



NJDEP Certified

PERFORMANCE

80%

REMOVAL
OF TSS

59.3

GPM/SQ.FT.

LOADING
RATE

(Based on NJCAT Verification)

50%

REMOVAL
OF TSS

64.9

GPM/SQ.FT.

LOADING
RATE

(Based on NJDEP Certification)

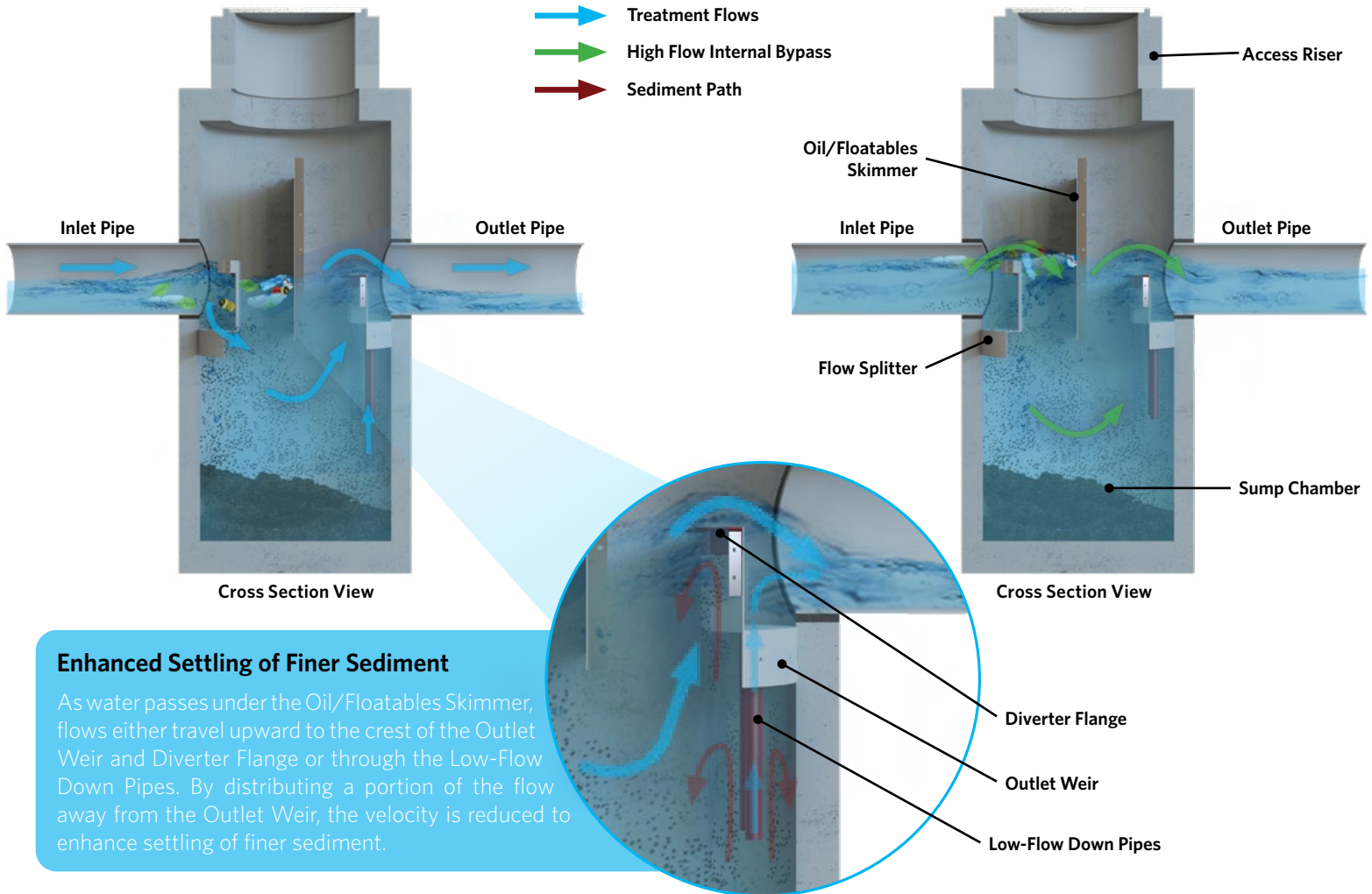
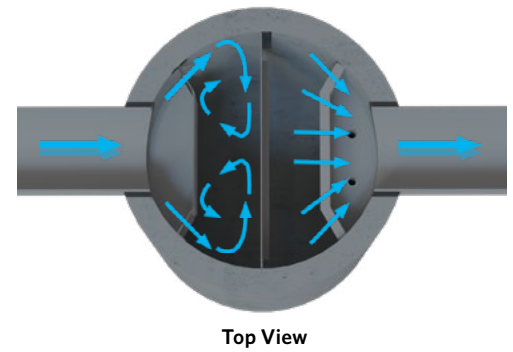
ADVANTAGES

- BEST-IN-CLASS LOADING RATE
- APPROVED FOR ONLINE APPLICATIONS
- COST-EFFECTIVE WITH ENHANCED LEAD TIMES
- 100% NONCORROSIVE INTERNAL COMPONENTS
- MADE IN THE USA
- EFFECTIVE AT REMOVING FLOATABLES, TRASH, AND HYDROCARBONS

OPERATION

For enhanced sediment removal, the SciCloneX™ Separator's inlet flow splitter redirects inlet flows away from the center of the chamber in two directions along the system's perimeter. From there, the flow goes toward the oil skimmer, along the skimmer wall, and back toward the inlet in the middle of the chamber creating two swirling vortexes.

This feature optimizes flow path and directs fine sediment to settle out back below the inlet, and down to the bottom of the sump chamber, maximizing sediment collection.



Enhanced Settling of Finer Sediment

As water passes under the Oil/Floatables Skimmer, flows either travel upward to the crest of the Outlet Weir and Diverter Flange or through the Low-Flow Down Pipes. By distributing a portion of the flow away from the Outlet Weir, the velocity is reduced to enhance settling of finer sediment.

SIZING CHART

Model #	Diameter (ft.)	Treatment Flow Rate (cfs) ¹	Surface Area (sq.ft.)
SCX-4	4	1.82	12.6
SCX-6	6	4.09	28.3
SCX-8	8	7.27	50.2
SCX-10	10	11.36	78.5

1. Based on a verified volume loading rate of 64.9 gpm/ft³ for test sediment with a mean particle size of 63 μm and an annualized weighted TSS removal of at least 50% using the method specified in the NJDEP HDS Protocol.

INSTALLATION



Step 1: Install the base section.



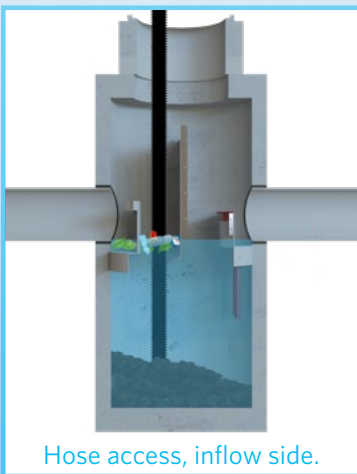
Step 2: Lift and place middle riser.



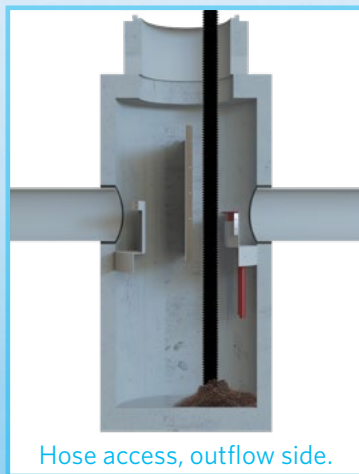
Step 3: Place top slab with access holes.

Installation of the SciCloneX Separator is quick and easy. The system is composed of a base section, a middle riser with holes for pipe connections and internals preinstalled, a top, risers to bring access to finish surface, and access covers. Installation of the system follows the same procedures as a standard manhole installation, and we carry the structures in inventory, allowing for shorter lead times.

MAINTENANCE



Hose access, inflow side.



Hose access, outflow side.

We have always taken pride in providing systems that are not only effective at treating stormwater but also incredibly easy to maintain. We believe that a stormwater BMP is only as good as its maintenance, and therefore BMPs must be easy to clean for them to be effective.

The SciCloneX Separator provides better maintenance access, as the entire sump is accessible and can be viewed from the finish surface, and completely open from the top to bottom. As shown below, the system can be accessed from both sides of the skimmer wall with an open area to opposite sides of the structure.

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