



EcoVault-DN™

Designed and Manufactured by

EcoSense International

About the EcoVault-DN™

The EcoVault-DN™ is a high-efficiency precast concrete stormwater, ground-water, and surface water denitrification treatment structure. The EcoVault-DN™ is generally designed for off-line, weir controlled flow, and is ideally suited to bolster nitrogen removal in conjunction with an in-line treatment system, such as the EcoVault®. It may also be used as an off line infiltration/detention tank, and can be configured with a standard bottom or with an exfiltration bed.

High-efficiency Denitrification

The EcoVault-DN™ utilizes NutriGone,™ a unique and highly efficient two-stage media which removes nitrogen and phosphorus, provides a short- and long-term carbon source, and encourages the growth of biofilm.

Nitrogen removal efficiency varies, and depends on the flow rate and overall volume of the system. Higher nitrate inflow leads to higher nitrate removal efficiency.

Maintaining an EcoVault-DN™

In contrast to other denitrification systems, the EcoVault-DN™ is designed to be easily cleaned of accumulated sediments.

Multiple crossflow media beds are arranged with spacing for vacuum truck access and serviceability.

Maintenance of the original hydraulic capacity is accomplished by simple spray flushing, which significantly reduces costs. Other systems consist of functionally inaccessible media beds which will clog over time and must be removed to be effectively cleaned.

EcoVault-DN™ At a Glance

High efficiency
stormwater
denitrification

Designed for off-line,
weir controlled flow

Sized according to
desired treatment
volume

Ideal for bolstering
nitrogen removal in
conjunction with in-line
treatment systems

Higher nitrate inflow
equals higher
removal efficiency

Can be configured for
exfiltration

Get More From the EcoVault-DN™

The EcoVault-DN™ works best when used in conjunction with an EcoVault® containing Vault-Ox® Infusion Modules, and more than one EcoVault-DN™ can be installed in series or parallel to bolster removal.

To learn more about the EcoVault-DN™ and other EcoSense products, visit us at ecosenseint.com