CASE STUDY

First Advanced Enviro-Septic System Installed in Wisconsin

Wisconsin

SYSTEM SPECIFICATIONS
450 GPD Wastewater Treatment System

INSTALLATION DATE
November 2019

PRODUCTS
Advanced Enviro-Septic® (AES) combined treatment and dispersal system

ENGINEER
Warren Hohn, Merrill, WI

INSTALLER
Eric's Septic, Shawano, WI

DESCRIPTION

A replacement drainfield was needed for a three-bedroom Wisconsin residence on a lot with a high water table and limited usable space.

Years of use and a old, leaking tank that had infiltration issues adding to the outflow to the drainfield. Limited space and depth to a seasonally-high water table of 36 inches at grade. Limited areas of non-compacted soils impacted the available footprint of a replacement system and eliminated the use of a traditional mound with stone.

A new 450 gallon per day (GPD) Advanced Enviro-Septic (AES) combined treatment and dispersal system was designed by Warren Hohn and installed by Eric's Septic. Sizing was based on 150 gallons per day per bedroom. The AES System has been proven to remove up to 99% of wastewater contaminants without using any electricity or replacement media. The overall footprint of the system is 17' x 32' basal area with a treatment area of 12' x 32' and specification of the AES system was key to reducing the drainfield size and producing better quality effluent to accommodate the high water table. The installer removed 12 inches of the 36 inches of native soil and replaced it with 12 inches of CSS mound sand. The native soil has a loading rate of 0.5 and the AES system design enabled loading of the system at 1.0, thereby reducing the footprint.

This was the first AES system installation in Wisconsin. The engineer found the component manual easy to work with and was pleased that the new system fit in the limited space available. The regulator was happy with the overall system installation process and the quality of the effluent returned to the soils. Having Infiltrator personnel on site through the installation process was helpful to all parties.

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