



# CASE STUDY

## PROJECT NAME

Middlesex County High School  
Saluda, VA

## SYSTEM SPECIFICATIONS

8,000 GPD Wastewater Treatment System

## INFILTRATOR PRODUCTS USED

ECOPOD® Advanced Wastewater  
Treatment System

## INSTALLATION DATE

2013

## OWNER

Middlesex County

## ECOPOD and Drip Dispersal System Equalize Varied Daily Flow Rates for Virginia High School

### SUMMARY

The treatment system at this site consisted of two (2) E450 ECOPOD units installed in poured-in-place concrete tanks. It is designed for a flow rate of 12,000 GPD of 300 mg/L BOD and 300 mg/L TSS domestic waste, treating down to 30/30 mg/L. The facility is a rural high school in the middle peninsula of Virginia.

Because schools provide certain hours of peak flows and other hours of little to no flow, a flow equalization tank was installed before the treatment reactor tanks at a volume of 12,000 gallons to ensure the peaks will not reduce the efficiency of the treatment system. The purpose of the flow equalization system is to store the peak flow rate and process it to the ECOPOD treatment system throughout a 24-hour period, given the biology is most efficient when being “fed” consistently throughout the day. The flow equalization tank was preceded by two (2) 7,676 gallon primary tanks. A drip dispersal system was also supplied by Infiltrator, complete with effluent pump chamber, headworks, tubing, controls, and all necessary valves and fittings. Concrete tanks were supplied by a local precaster.



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water technologies

4 Business Park Road, Old Saybrook, CT 06475  
(800) 221-4436 • [info@infiltratorwater.com](mailto:info@infiltratorwater.com)