

CASE STUDY

ECOPOD System Installed at Virginia High School

Saluda, VA

SYSTEM SPECIFICATIONS

8,000 GPD Wastewater Treatment System

OWNER

Middlesex County, Virginia

INSTALLATION DATE

2013

PRODUCTS

ECOPOD® Advanced Wastewater Treatment System

DESCRIPTION

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.

