

CASE STUDY

ECOPOD Meets Regulatory Requirements to Protect Imperiled Mussel Population

Brockport, NY

SYSTEM SPECIFICATIONS

16,165 GPD Wastewater Treatment System

INSTALLATION DATE

Summer 2023

PRODUCTS

ECOPOD® Advanced Wastewater Treatment System

OWNER

Big Guys Campground, Brockport, NY

ENGINEER

Meagher Engineering, Rochester, NY

DESCRIPTION

Big Guys Campground in Brockport, NY, was established in 2020 after the owners purchased the property as a golf course with club house. Their vision was to convert the space to a campground with event center.



During the system permitting process it was discovered that there was a known imperiled mussel population located in the stream of the proposed outfall of a treatment plant. Two options were presented by the NYSDEC to the owners. One option was to immediately impose ammonia limits that the wastewater treatment plant will have to meet at the end of the pipe before discharging into the stream. The second option mentioned by NYSDEC is that if the owners choose not to construct a system designed to meet the proposed limits, then it is possible to apply a dilution factor based on flowrates from the ponds on property to the same location of the wastewater treatment plant's outfall.

An ECOPOD Advanced Wastewater Treatment System was designed to meet the new ammonia effluent requirements of 1.25 mg/L (summer) / 2.75 mg/L (winter). A single-compartment tank with an ECOPOD E3400D was installed in an epoxy coated steel tank.



The ECOPOD system was installed in three phases to meet the needs of the campground as they expanded during the initial years of operation. Testing has determined that effluent meets the requirements of the NYSDEC for protecting the mussel population.

