Clearpool STP Regulatory Upgrade

Site before and during construction - top image shows buried sand beds and chlorination shed.

Construction of the new facility did not disrupt operations of the Clearpool organization.

The plant is totally enclosed within one building. MBR systems require less space and are more automated, making them simpler to operate.

The Challenge

To provide an efficient regulatory sewage treatment plant (STP) upgrade to comply with the New York City (NYC) Watershed Rules and Regulations, while considering the space allocation and woodland aesthetics of the Clearpool Education Center.

The Solution

As the first, and currently only, operational membrane bioreactor (MBR) constructed under the NYC Regulatory Upgrade Program, the technology designed for Clearpool removes biodegradable organics, suspended solids, and inorganic nutrients; retains particulates and emerging organisms, such as giardia/ cryptosporidium and removes a very high percentage of bacteria. As a whole, MBR systems require less space than traditional activated sludge systems and are more automated, making them ideal for decentralized treatment because they are simpler to operate.

Clearpool STP Regulatory Upgrade
Carmel, NY

Insite
Carmel, NY

O'Brien & Gere
Hawthorne, NY

O'BRIEN & GERE

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.