

CASE STUDY

ATL & IM-540 Tanks Used in Residential Replacement System

Pittsford, NY

SYSTEM SPECIFICATIONS

330 GPD Residential Wastewater Treatment System

INSTALLATION DATE

August 2018

PRODUCTS

IM-Series Tanks

Advanced Treatment Leachfield (ATL) combined treatment and dispersal system

ENGINEER

Rosiek Engineering, Pittsford, NY

INSTALLER

Meyers Environmental, Fairport, NY

INSTALLER

Kistner Concrete, Clifton Springs, NY

DESCRIPTION

A Pittsford, NY, residential onsite wastewater treatment system (OWTS) that was originally installed in the 1970s was beginning to fail. The owner of the three-bedroom home needed a replacement but wanted to preserve their investment in extensive landscaped areas.

In addition to a limited footprint for a new OWTS, within the available footprint there were areas of steep slopes, high groundwater, and soils which would not perc. The existing OWTS utilized two concrete single-compartment septic tanks, one for blackwater and one for greywater. Both septic tanks discharged to the same leachfield. The natural slope of the site resulted in stormwater flowing naturally toward the existing OWTS and proposed OWTS footprint.



Solutions considered included a raised bed system, Enhanced Treatment Units, and the Infiltrator ATL passive advanced treatment leachfield system which was ultimately selected. The installation began with the abandonment of the blackwater tank and then the installation of the two Infiltrator IM-540 tanks. One IM-540 tank was installed downstream of the greywater tank to provide a second compartment to meet current regulations. The second IM-540 tank is used to convey settled effluent to the ATL system. The system also includes a Goulds effluent pump and a Polylok distribution box and features high and low venting.

Due to the tight footprint, the installation of the ATL shallow trenches was completed as the crew worked themselves out of the area. The top soiling and seeding of the ATL system was prior to the installation of a curtain drain to convey stormwater away from the ATL system.

The system was the first Infiltrator ATL system installation in Monroe County. The installation of the system as the crew worked their way out of the system area enabled a minimal impact to the landscaping.



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