



## CASE STUDY

### PROJECT NAME

Chatham-Kent County Residence  
Ontario, Canada

### SYSTEM SPECIFICATIONS

423-gallon (1600 liter) per day ATL combined treatment and dispersal system with 2152.7 FT<sup>2</sup> (200 M<sup>2</sup>) specified sand and 850-gallon (3600 liter) septic tank.

### PRODUCTS USED

200-liner feet of Infiltrator ATL

### INSTALLATION DATE

October 2019

### CONTRACTOR

Glen Knight and Sons Septic Service West  
Cottam, Ontario

*"The product support and help from the supplier is key to the success of any system installation. Infiltrator Water Technologies has always supported us and we have worked well together. We intend to utilize the ATL system wherever we can. We feel comfortable using Infiltrator products knowing that they stand behind everything they make." - Randy Knight*



**INFILTRATOR**  
water technologies

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

## First Advanced Treatment Leachfield (ATL) System in Chatam-Kent County, Ontario Solves Non-compliance Woes

### SUMMARY

When constructing a new three-bedroom home to replace one destroyed by fire, it was discovered that the septic system consisted of a septic tank but no leachfield and needed to be brought into compliance with current code.

### CHALLENGES

Challenging glacial till and clay soils and a flooding high water table make drainage a challenge in the area and limited the options for a new system. The project also experienced installation delays due to rainy, wet conditions.

### SYSTEM DETAILS

The 423-gallon per day (1600 liter) ATL combined treatment and dispersal system, designed and installed by Glen Knight & Sons Septic Service, includes 200 linear feet (61 meters) or 20 ATL units and an 850-gallon (3600 liter) septic tank. Per Ontario building code, 2152.7 FT<sup>2</sup> (200 M<sup>2</sup>) of specified sand was required. The ATL combined treatment and dispersal system provided the best solution to meet lot setbacks, and separation from the limiting layer and seasonably high-water table, without resulting in a large mound in the front yard. It also enabled a footprint reduction from a conventional leaching bed that was equal to what would be required following a tertiary treatment plant but without the effluent first reduced to tertiary levels. The ATL solution was a cost effective and completely passive approach to meet treatment levels for this environmentally sensitive area.

### RESULTS

The well-planned, efficient installation took only 1 1/2 days and local and neighboring town inspectors attended to learn about the product and system. Infiltrator's local sales representative, Don Krauss, provided field and technical support throughout the installation. The inspection was quick and easy, and the regulators were comfortable with the product and installation.