

## 2021 INSPECTION RESULTS



The annual inspection season of DBO Expert's wastewater treatment systems is officially closed. During this time, over 15 Quebec engineering students were fully trained on the Advanced Enviro))Septic technology at the heart of all System O)) solutions, and they accumulated four months of experience in wastewater treatment. DBO Expert is committed, year after year, to train the industry's next generation and offer pertinent and stimulating internships to Québec's future engineers.

With absolute transparency, DBO Expert is proud to share with you the results of this year's inspections of nearly 8,000 septic systems. In 2021, then, 99.1% of the septic systems inspected were found to have a normal water level. This means that, when DBO Expert inspectors visited the site, the three key factors to the proper functioning of their septic system were all present; that is, aeration, retention time within the pipes and the percolation rate in the sand.

Given these results, DBO Expert wishes to reinforce some elements that are invaluable to System O))'s longevity:

- Aside from soil analyses, the environment around the future system must be taken into consideration. Will it be at the bottom of a slope, or near a waterway or wetlands? Drainage trenches around a system can help ward sources of soil saturation or seepage, and ensure the efficient evacuation of treated water by the native soil.
- Despite the calculations for an adequate infiltration surface area, lateral flow is a significant source of treated water dissipation. Using permeable material as backfill leads to effective water evacuation under a System O)). Especially since this permeable backfill is invaluable to the phenomenon of air diffusion and evapotranspiration.
- A septic system is designed for a specific average pollutant load. We must make sure to only dispose adequate and non-hazardous elements to the microorganisms that are responsible for treating the water.
- A septic system is also designed for a specific daily flow. Avoid excessive water use or large water discharge from a sump pump, pool or any other equipment generating a significant volume of water that was unintended when the system was sized. In this sense, water leaks should also be fixed immediately.

Despite this, there are relatively simple solutions with moderate costs to restore a DBO Expert septic system that may have been inadequately designed, installed or used, or whose site environmental conditions have significantly changed since its installation. Indeed, one of the great advantages of the Advanced Enviro))Septic technology is its natural regeneration capacity. The experienced DBO Expert team is always available to share its expertise and support partners and homeowners in solving problems.

## CONCLUSION

In over 99% of cases, DBO Expert's clients benefiting from a Monitoring Contract this year have a septic system that works perfectly.

The proper functioning of a septic system is the result of many factors. A septic system's longevity can be assured with a careful design taking into consideration the general environment around the system, with good installation methods and materials, with the responsible use of the system, and with the immediate attention to excessive water use or plumbing leaks.

