

# System

NEXT GENERATION ADVANCED ENVIRO)SEPTIC<sup>®</sup>

## Biological and ecological treatment system

- ✓ No moving parts
- ✓ No electricity
- ✓ No mantle

The simplest, most cost efficient and  
versatile sewage system producing  
Level IV quality effluent

**On the market Today!**



## APPROVED AS AN ALTERNATIVE TO A CLASS 4 SYSTEM PRODUCING LEVEL IV QUALITY EFFLUENT

The **System O))** is easy to install, does not require a stone layer, does not require a mantle, does not require hydro if gravity flow is achieved, no moving parts, no media to replace, and now is priced similarly to that of a conventional pipe and stone system.

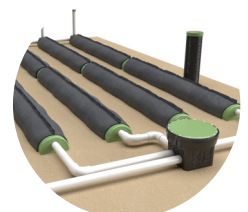
The system requires system sand, which is readily available at most sand and gravel suppliers across Ontario. In some cases, System Sand is priced below filter sand or septic sand.

Looking for a cost-effective and efficient system that produces Level IV quality effluent?

**CAN/BNQ, BMEC Authorization & Design Information Available.**

### THE ADVANCED ENVIRO-SEPTIC® PIPES ARE A PATENTED PRODUCT COMPOSED OF FOUR COMPONENTS:

- ✔ A high-density polyethylene pipe with corrugated walls for enhanced heat transfer and perforations for effluent release. Each corrugation features a unique notched design promoting airflow, vital for bacteria involved in wastewater treatment.
- ✔ The Bio-Accelerator™ allows for a fast ramp-up time.
- ✔ A randomly oriented fiber mesh covers the pipe, facilitating the supply of oxygen and acting as a support structure for the biomass.
- ✔ A non-woven geotextile membrane is sewn around the pipe to prevent sand from entering the pipe.

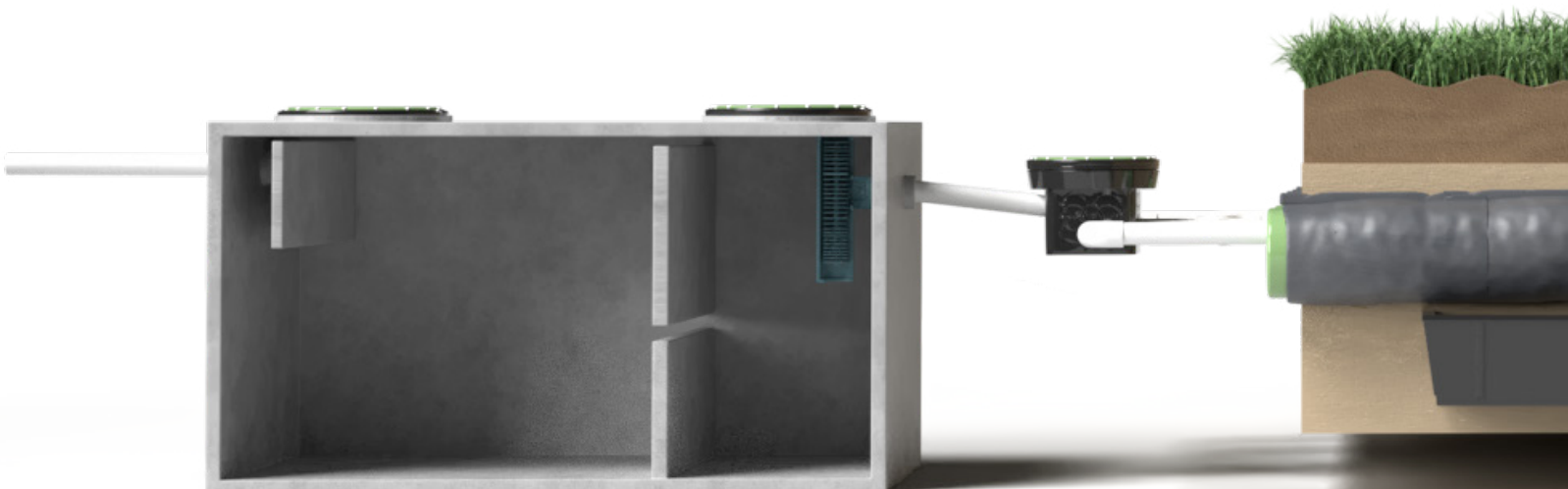


### THE 4 STAGES OF WASTEWATER TREATMENT

① The wastewater leaving the house goes into the septic tank where the solids are separated from the liquid.

② The septic tank effluent then flows by gravity into the distribution box where it is evenly distributed into the rows of Advanced Enviro-Septic® pipes.

③



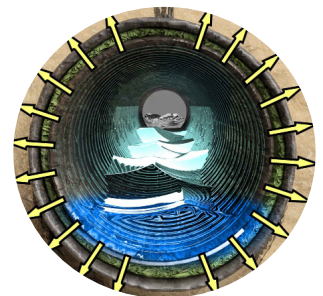
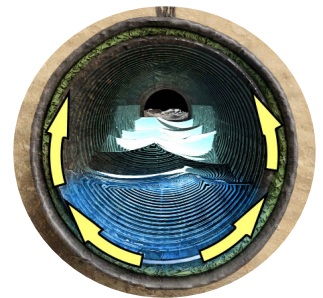
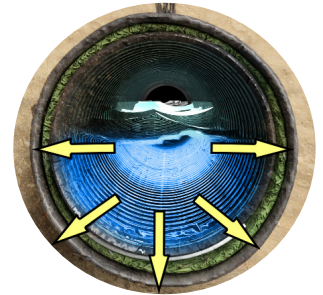
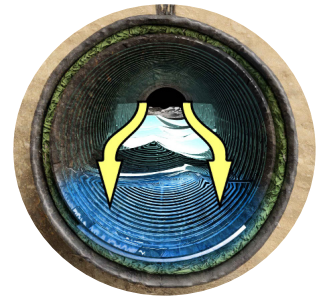
## THE SYSTEM 0)) PROCESS

The wastewater from the septic tank flows into a distribution box equipped with equalizers, then evenly into rows of **Advanced Enviro-Septic®** pipes, which cool the effluent to ground temperature due to their corrugations.

Effluent exits the pipe through perforations, passes through a mat of plastic fibers housing bacteria to treat suspended solids. Liquid level fluctuations in the pipe, caused by household water usage, create an aerobic/anaerobic environment, fostering bacterial treatment similar to wood deterioration at ground level.

The effluent continues through a geo-textile, where more bacteria develop, and capillary action distributes it around the pipe's circumference, aiding water evacuation to the surrounding ground, similar to a wick in an oil lamp.

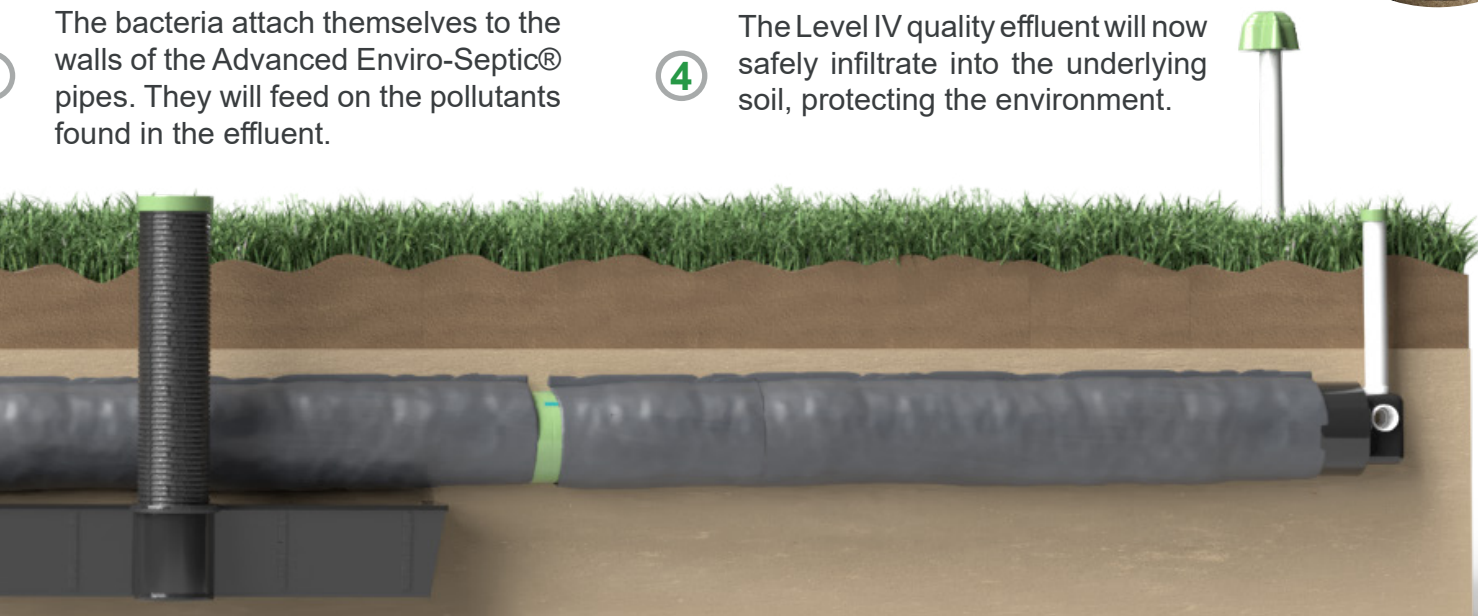
Finally, the treated effluent passes through system sand surrounding the pipes before infiltrating into the receiving soil, removing almost all contaminants for easier ground infiltration and site evacuation.



The bacteria attach themselves to the walls of the Advanced Enviro-Septic® pipes. They will feed on the pollutants found in the effluent.

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The Level IV quality effluent will now safely infiltrate into the underlying soil, protecting the environment.



# SYSTEM O)) ADVANTAGES

- *Easy to Install*
- *Very versatile and flexible*
- *One length Enviro-Septic Pipe can be cut into sections or bent 90 degrees*
- *Can be installed in a slope up to 25%*
- *Smallest footprint*
- *Does not require a stone layer*
- *No media to replace - EVER !*



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**PROTECTING OUR ENVIRONMENT**