

## **Benefits of Annual Service for the Eco-Pure Peat Moss Biofilter System**

*The average life expectancy of a Conventional Septic System's disposal field (zone of treatment) is approximately 20 years.*

Conventional septic systems typically do not have effluent filters on the outlet baffle of the septic tank. This effluent filter prevents small sludge and scum particles from leaving the septic tank and being deposited into the disposal field's layer of sand and gravel. If regular septic tank pumpouts are not performed, then the amount of sludge & scum particles floating out into the disposal field increases dramatically. Without a filter in the septic tank's outlet baffle, as much as 40% of the septic tank's sludge and scum particles will float out, coming to rest in the disposal field, taking with it large amounts of bacteria that will multiply and build up, creating a slimy biomat layer. This condition, over many years, will be the main cause of the field's failure and is referred to as a "creeping failure". The disposal field's zone of treatment on a conventional septic system is not accessible, prohibiting removal of this biomat build up.

Biomat is a biological microorganism that secretes a sticky, slimy substance that will anchor itself to a solid surface (an interface) like stone and sand. This growth thrives because no oxygen is present in the field to kill it off and there is no way to control this environment or remove the biomat. Once this failure occurs (and it always does) an entire new system is needed and the cost can range from \$30,000-\$40,000!



1.



2.



3.

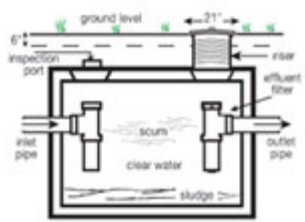
Septic tank filter (1) captured sludge & scum particles that normally would float out of the tank to the distribution box (2) and then out to the laterals in the disposal field. This contamination along with the naturally occurring biomat scum that "grows" in the disposal bed is what "kills" every conventional septic system. If the property's septic system was built before 1990, and is in a high water table area, the field will not only be contaminated with sludge and scum, but be saturated with groundwater as well, unable to clean any effluent from the home (3).

*When you install an Eco-Pure Peat Moss Biofilter septic system, all the above conditions are controllable because the "zone of treatment" is an enclosed module that is accessible for service.*

The Eco-Pure peat system mandates that an effluent filter be attached to the outlet baffle in the septic tank. This filter will help prevent sludge & scum particles from leaving the septic tank and building up in the peat module. This filter requires annual cleaning.

The Eco-Pure peat module is now the zone of treatment (instead of the conventional system's disposal field of sand and gravel) and is fully accessible to be cleaned and serviced. The inevitable build up of any particles that may escape the tank and the build up of bio-mat scum can now be reached to be disturbed and removed. This cleaning should be done once a year.

Within 7-10 years, the peat moss inside the Eco-Pure module will eventually become exhausted, no longer capable of producing any live organisms to break down and kill off the harmful bacteria contained in the effluent. Because the peat system is being serviced once a year, the technician can detect when the peat moss needs to be replaced. Once it's determined that the peat needs replacing, the module is emptied and new peat is installed for a minimal cost. For a tenth of the cost of a new system, you are able to revitalize your zone of treatment, making it new again. This very affordable option has just extended the life of your system for years to come!



1.



2.



3.

The required septic tank filter (1) will prevent contaminated particles from entering the Eco-Pure Biofilter unit (2). The biomat scum that will naturally “grow” in the top of the peat unit (3) can be broken down and removed at time of annual service visits. This accessibility into the zone of treatment does not allow for the “creeping failure” found in conventional septic systems. Once the peat has been exhausted, no longer able to clean the tank’s effluent, the peat moss is replaced and years are added to the system’s ability to clean.