SEPTICISSIEM

Homeowners Guide and Recordkeeping Folder

DID YOU KHOM...

... that a properly designed and installed septic system can be the safest, most economical way to treat your wastewater as long as it is properly maintained? If you are like most homeowners, you probably never give much thought to what happens to what goes down your drain. But if you own a car and understand how important it is to do preventative maintenance (like changing your oil), then you can understand how maintaining your septic system can save you money and headaches "down the road." This owner's guide can help you be sure that your septic system is used and maintained properly. This folder also provides a place to record and keep important information, such as your permit, a sketch of your system, maintenance records, and other fact sheets. Read and use this folder to learn:



How a septic system works



Why and how to maintain your septic system



How to keep your own maintenance record







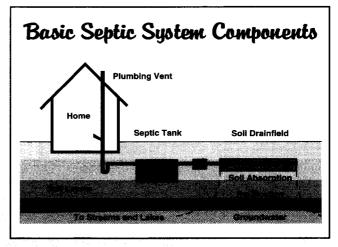


HOW DO SEPTIC SYSTEMS WORK?

System Description. A septic tank system uses natural processes to treat and dispose of the wastewater generated in your home. It typically consists of a septic tank and a drainfield, or soil absorption field. The septic tank provides the first step in treatment. As wastewater flows into the tank, the heavier solids settle to the bottom to form a sludge layer, and the lighter solids, greases, and oils float to the top to form a scum layer. The liquid wastewater (effluent) from the tank flows into gravel-filled trenches in a typical drainfield where it is distributed via perforated pipes and then treated by the natural soil system. The diagram below shows the components of a typical septic system.

System Operation. The septic tank provides some biological treatment of the sludge and scum layers that accumulate there. The majority of treatment occurs in the drainfield where the effluent enters the soil and is treated as it percolates to the groundwater. The soil acts as a biological and physical filter to remove harmful substances, including disease-causing bacteria and viruses, toxic organics and other undesirable wastewater constituents remaining in the effluent.

Outlet filters or baffles are located in the tank and are designed to prevent the sludge and scum from flowing into the drainfield. If the tank is not pumped regularly to remove the accumulated solids, the tank will fill with sludge and the solids will be washed out into the drainfield, or clog the outlet filter. If solids reach the drainfieldor clog the outlet filter, they will quickly clog the soil and eventually lead to system failure.

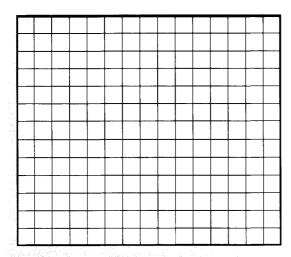


SEPTIC SYSTEM MRINTENANCE

Why Maintain Your System? There are three important health reasons for maintaining your septic system.

- The first reason is the health of your pocket book. Poor maintenance results in failed systems requiring repairs at a minimum and sometimes system replacement. Repairs or replacement costs can be thousands of dollars, whereas a periodic inspection and pumping costs about \$100-\$200.
- The second reason is the health of your family, your community and the environment. Untreated sewage contains disease-causing bacteria and viruses, as well as unhealthy amounts of nitrate and other chemicals. Failed septic systems can allow untreated sewage to seep into wells, groundwater, and surface waterbodies, where people get their drinking water and recreate.
- The third reason is the *health of your*economy. Contamination of waterbodies by failed septic systems pollutes water supplies, closes shellfish beds and recreational areas, and creates offensive odors. Quality of life, recreational opportunities, livelihoods and tourism decline, and with them go the property values and economic vitality of the area.

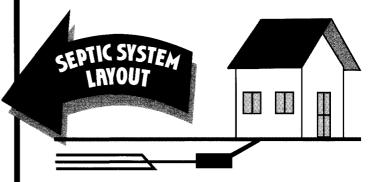
How Do You Maintain Your System? Proper care of your system requires day-to-day management as well as periodic maintenance. It also requires that you know where your system is. The more you know about how your system operates and how it should be maintained, the better able you will be to protect your investment in your home and property, protect your family's health, and protect your environment.



WHERE IS YOUR SEPTIC SYSTEM LOCATED?

In order to maintain your system, the tank needs to be accessible for pumping and the drainfield should be protected. Locating your system is not always an easy task. If you do not already have one, contact your county health department for a copy of your septic system permit, which will indicate the approximate location of the system and the size of the tank. The completed permit may have a diagram of the actual system installation and include other information about your system. Keep your permit in this file folder for future reference and to pass on to the next homeowner.

- Make a sketch on the grid provided below, locating your septic tank and drainfield (the trenches or bed) in relation to surrounding reference points. Begin by sketching your house, driveway, water well, and other landscape features such as trees or fences.
- A good starting point for finding the exact location of the tank is to look to see the direction in which the house sewer pipe enters the soil. Then, gently push a thin (3/8- to 1/2- inch diameter) steel rod into the soil about 5-10 feet away from the house to feel for the tank. Of course, you should first call local utility companies to make sure there are not any underground utilities (such as buried electrical cables) in the area
- When you have your septic tank pumped, measure and record the distance from the house to the access port on the tank. You may want to have the access manhole extended up to just below ground level and marked clearly with a stake, rock or birdbath. This will help you find it again.



TAKING CARE OF YOUR SEPTIC SYSTEM

AN OUNCE OF PREVENTION IS WORTH A TON OF CURE! Committing a little attention to the care of your system can help to avoid the nightmare of a failing system. Assuming that your septic system was properly located, designed, and installed according to state codes, you are now in the driver's seat for the care of your system. By following the recommendations below, you can help your system to work properly for years to come.

DO's:

- Conserve water to reduce the amount of wastewater that must be treated and disposed of by your system. Doing laundry over several days will put less stress on your system.
- Pepair any leaking faucets or toilets. To detect toilet leaks, add several drops of food dye to the toilet tank and see if dye ends up in the bowl.
- Divert down spouts and other surface water away from your tank & drainfield. Excessive water keeps the soil from adequately cleansing the wastewater.
- Have your septic tank inspected and pumped regularly by a licensed septic tank contractor.* Suggested frequency is 3-5 years.
- Keep your septic tank cover accessible for inspections and pumpings. Install risers with lids if necessary.
- Call your county health department or a registered septic tank contractor whenever you experience problems with your system, or if there are any signs of system failure.
- ✓ Keep a detailed record of repairs, pumpings, inspections, and other maintenance activities. Pass these on to the next homeowner.
 - * Pumping your septic tank is probably the single most important thing you can do to protect your system. If the buildup of solids in the tank becomes too high and solids move to the drainfield, this could clog and strain the system to the point where a new drainfield will be needed.

DON'Ts:

- Don't drive over your tank & drainfield or compact the soil in any way.
- Don't dig around the tank or drainfield, or build anything over it, and don't cover it with a hard surface such as concrete or asphalt.
- Don't plant anything over or near the drainfield except grass. Roots from nearby trees and shrubs may clog and damage the drain lines.
- Don't use a garbage disposal, or at least limit its usage. Disposals increase solids loadings to your tank by about 50%, so you have to pump your tank more often than normally suggested.
- Don't use your toilet as a trash can or poison your system and the groundwater by pouring harmful chemicals and cleansers down the drain. Harsh chemicals can kill the bacteria that help purify your wastewater. See the list below for examples.
- Don't put in a separate pipe to carry wash waters to a side ditch or the woods. This graywater contains germs that can spread disease. Use a laundry system.
- Don't waste money on septic tank additives. The bacteria needed to treat wastewater is naturally present in sewage. Additives can resuspend solids causing your drainfield to clog. Additives do not eliminate the need for routine pumping of your tank.
- Don't allow backwash from home water softeners to enter the septic system.
- Never enter a septic tank -- toxic gases from the tank can kill. If your system develops problems, get advice from your county health department or a licensed septic tank contractor.



DO NOT FLUSH...

coffee grinds
disposable diapers
sanitary napkins
cigarette butts
fats, grease or oil
paints
thinners
photographic solutions
antibiotics

dental floss kitty litter tampons condoms paper towels varnishes waste oils pesticides

Maintenance Record

USE THE FOLLOWING SPACES to record information about your own septic system. Some of this can be copied off of your Permit which might be obtained from your county health department. Having good maintenance records can be a positive selling point for your home when the time comes (wouldn't you rather buy a car that has a proven maintenance record?).

Permit Number:	
Issued to:	Date Issued:
Address:	
System Description:	
Drainfield Type:	Septic Tank Size (gallons)
 □ Conventional Trenches □ Shallow Trenches □ Mound □ Bed □ Ultra-shallow Trenches □ Other 	Pump Tank Size (gallons) Drainfield Dimensions: Number of Trenches: Trench Length:
Septic System Installer:	Septic System Pumper:
Name:	Name:
Address:	Address:
Telephone:	Telephone:
Date System Installed:	

SYSTEM MAINTENANCE RECORD				
DATE	WORK DESCRIPTION	FIRM	COST	

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