GROUNDWATER

Groundwater is water located under the surface of the ground. This water is stored in an underground body of porous sand, gravel, and fractured rock called an aquifer. Aquifer layers are usually separated from each other by a nonporous layer of clay or chalk called a confining layer. Most people in M is sissippi receive their drinking water from groundwater aquifers. Usually groundwater is pumped out of the ground through a well pipe and is stored in a community water tower or household storage tank. From there it travels through pipes to homes, businesses, and industries. Farmers use groundwater to irrigate their crops, or to fill catfish ponds.



THE PERCOLATOR

The earth is continually **filtering** or **percolating** water through its many layers of sand, gravel, rock, and clay. As the water slowly seeps through these layers, water is cleaned much like a **filtration** system on a fish tank. In this activity, you will filter unclean water through layers of earth and observe how the layers **purify** or clean the water.

You Will Need: pebbles top soil duct tape

coarse sand fine sand bucket
an air-tight plastic lid plastic cup scissors
coffee can, both ends open ruler
a piece of window screen to fit the lid of the can

Instructions: Carefully cut a square hole in the middle of the plastic lid.

Cut a round piece of the screen to fit the lid.

Tape the screen to the inside of the lid. Fasten the lid to the bottom of the can.

Add one inch of pebbles to the can.

Add coarse sand on top of the pebbles until the can is half full. Add fine sand on top of the coarse sand until the can is 3/4 full.

Mix two tablespoons of soil into a cup of water.

Holding the can over a bucket, slowly pour the water into the can. Observe the slow percolation process. Notice the clean water.