

## **WELL DISINFECTION PROCEDURES**

The procedure for disinfection of the well and water distribution system is as follows:

1. Before treatment, turn off the pump breaker at the electric panel box before removing the well cap to eliminate shock hazard.
2. Remove well cap and electric wires from top of well. Make sure wire connectors are tight. Protect wire connectors with a plastic bag.
3. Attach a garden hose to an outside spigot and place into top of the well casing. For each 150 feet of well depth, add 10oz of Powder Shock which contains approximately 65% chlorine. Powder Shock can be purchased at most area pool retail stores. This powder should be added to 1 gallon of water, mixed and poured directly into well. Turn pump breaker on and circulate water from outside spigot into well. After chlorine smell is detected coming from the hose allow water to circulate into well for at least one hour. (Caution: This procedure may cause the water to become cloudy, however, it will clear up after the chlorine is run off.) Turn breaker off and replace wires into top of well casing.
4. Turn pump breaker back on and go into the house and circulate the chlorinated water through every fixture, (this includes toilets, sinks and washing machines). This should be done for at least three minutes at each site.
5. Allow the chlorinated water in the water distribution system to be undisturbed for a period of 12-24 hours. Run the chlorinated water from the distribution system from an outside hose avoiding the well and septic areas, as well as natural streams. Run the water for one half-hour, turn off for an hour. Repeat this process until chlorine cannot be detected.
6. If your well is a low yielding well or you are chlorinating during a drought season you should avoid rushing the chlorine out of the system.
7. Rinse chlorine test tube and fill  $\frac{3}{4}$  full. Add one DPD #4 test tablet and shake. Pink color development indicates chlorine is present. Color development can take up to five minutes. If clear at the end of the five-minute waiting period, chlorine is absent. Rinse test tube. A pool test kit can be used to test for chlorine. **NOTE:** These may not always be accurate.
8. At the completion of the chlorination process when no chlorine can be detected in the water, the water should be retested.

**NOTE: CATOCTIN LABS, INC. WILL CHARGE A NON-PRODUCTIVE SITE VISIT FEE IF WATER HAS A CHLORINE RESIDUAL WHEN WE ARE REQUESTED TO SAMPLE. CHLORINE CAN NOT BE PRESENT WHEN SAMPLE IS COLLECTED.**

Per Frederick County Health Department.

C:\Office\Chlorination  
06-08-99