

Water System Disinfection Procedures

1. Eliminate sources of contamination and clean out reservoirs or pump out wells until water is clear.
2. Add chlorine solution to well through the chlorination tube. Mix dry chlorine with water to make a solution to pour into well.
3. Mix the disinfectant in the well by attaching a hose to the nearest faucet and putting the end of the hose down the chlorination tube on the well casing and turning it on for about 30 minutes. Mixing can also be obtained by turning the pump on and off several times (surging).
4. Then pump the water into all the distribution lines in the system until the water discharge at all points in the system has the odor of chlorine.
5. The well shall then be allowed to stand without pumping for 12 hours, or at least overnight.
6. The water is then pumped to waste until the odor or taste of chlorine is no longer detectable.
7. A bacteriological sample shall be taken 48 hours after this disinfection procedure, and submitted to a laboratory for examination.
8. If the laboratory analysis shows the water is not safe to use, the disinfection procedure should be repeated until the tests show no contamination.

Chlorine Compound Required to Disinfect a Well (per 100 feet of casing)			Chlorine Compound Required to Disinfect a Storage Tank or Reservoir		
Diameter of casing (in inches)	(70%) HTH Perchloron (Dry Wt.)	(5.25%)* Clorox, Purex	Size of Reservoir	(70%) HTH Perchloron (Dry Wt.)	(5.25%)* Clorox, Purex (liquid measure)
2 inches	¼ ounce	2 ounces	1,000 Gal.	1 ounce	12.8 ounces
4 inches	1 ounce	9 ounces	5,000 Gal.	4.8 ounces	2 quarts
6 inches	2 ounces	20 ounces	10,000 Gal.	9½ ounces	1 gallon
8 inches	3 ounces	2.2 pints	50,000 Gal.	3 pounds	5 gallons
10 inches	4 ounces	3.5 pints			
12 inches	6 ounces	5 pints			
24 inches	1½ pounds	2.3 gallons			

*Swimming pool chlorine is 15%. If you are using it, use 1/3 the amount shown in this column.

Note: It is suggested that where wells to be treated are of unknown depth or volume, at least one pound of calcium hypochlorite (70% available chlorine) or two gallons of household bleach (sodium hypochlorite) such as Clorox or Purex (5.25% chlorine) may be added in lieu of the above table.