

La qualité de l'eau



Par Alice Caron

Tél. : 281-9300

www.chateaudeau.ca

Guidelines for a good well disinfection

- Important if you have a filter or softener, put on by-pass. (Some systems don't have to be put on by-pass.)
- Prior to shock chlorinating your well, disconnect the water heater's power source following the manufacturer's instructions. Drain the water heater. Then reopen the valve to the water heater and a hot water faucet while shocking the system so the chlorinated water softener through the heater and rids it of contaminated water. (Optional, if you can't empty the water heater, after well chlorination, open hot water faucet, it will get done but slower.)
- As you are adding the chlorine solution, take safety precautions to protect yourself from splashing and fumes (protective goggles, gloves and a mask.)
- Pour the chlorine or *Wellsanitiser into the well with quantities suggested on table.
- Circulate the chlorine or *Wellsanitiser* with well water, *rinse* the sides and interior of well with a garden hose, and circulate to mix the chlorine solution with the water. (When using *Wellsanitiser*, make sure no pellets stay on pit-less adaptor, spray with hose, corrosif.)
- All water faucets should be turned on one by one, starting with the bath tub (and the further washroom from pumping system) until the odor of chlorine is evident, at witch time the faucet should be turn off, and do the same for the hot water faucet.
- Chlorinated water should be throw out the whole plumbing system, including all faucets hot and cold, dishwasher and washing machines hot and cold water, outside fixtures, any supply lines to barns or other buildings, etc.
- Place the garden hose at the top of the well and re-circulate the water in the well for one hour if possible.
- Wait 24 hours before removing water in the plumbing, all depending on the condition of the existing plumbing, do not leave more than 24 hours because chlorine is corrosif
- If possible discharge as much water as possible through an outside faucet with a hose attachment until chlorine odor disappears. The small amount of chlorinated water which remains in the household plumbing can be discharged to rinse out.
- Once chlorine odor is gone, you can put water softener or filter in service again.

It is possible to have very dark water and sometime black, orange or yellow, after a well disinfection, all depending on the water contaminants present (water will get back to normal after).

*Flooded wells, wells with sediments, iron or iron bacteria, may require higher than normal chlorine concentrations or may require more than one disinfection. In order to achieve a chlorine concentration of 200 parts per million for well repair, or shock chlorination to reduce iron bacteria, **multiply the quantities in the table by four.***

If you have a well, and you are not sure of what to do for disinfection, just call a qualified company.

**Wellsanitiser is for well disinfection, a 70% concentration, very good for contamination problem application, biofilm, manganese or iron bacteria, iron etc.*

Reference: Guidelines for disinfection and sanitation of water treatment equipment, Water Quality Association Third Edition.

Distance from water level to bottom of well

| Well diameter | 0' - 50' | 50' - 100' | 100' - 200' | 200' - 300' | 300' - 400' | 400' - 500' |
|---------------|---------------------|---------------------|---------------------|----------------------|-----------------------|----------------------|
| up to 2" | 1 oz 29.6ml | 2 oz 59.2ml | 4 oz 118.4ml | 6 oz 177.6ml | 8 oz 236.8ml | 11 oz 325.6ml |
| 2" - 4" | 4 oz 118.4ml | 8 oz 236.8ml | ½ qt. 473.6ml | 1 qt. 947.20ml | 1¼ qt. 1184ml | 1½ qt. 1420.80ml |
| 4" - 6" | 8 oz 236.8ml | ½ qt. 473.6ml | 1 qt. 947.20ml | 1 qt. 947.20ml | ¾ gal. 710.4ml | ¾ gal. 710.4ml |
| 6" - 8" | ½ qt. 473.6ml | 1 qt. 947.20ml | ¾ gal. 2841.6ml | 1 gal. 3788.8ml | 1 ¼ gal. 4736ml | 1½ gal. 5683.2ml |
| 8" - 12" | ½ gal. 1894.4ml | ¾ gal. 2841.6ml | 1¼ gal. 4736ml | 1¾ gal. 6630.4ml | 2½ gal. 9472ml | 3 gal. 11844ml |
| 12" - 16" | ½ gal. 1894.4ml | 1 gal. 3788.8ml | 2 gal. 7577.6ml | 3 gal. 11366.4ml | 4 gal. 15155.2ml | 5 gal. 18944ml |
| 16" - 20" | ¾ gal. 2841.6ml | 1½ gal. 5683.2ml | 3 gal. 11366.4ml | 5 gal. 18944ml | 6 gal. 22732.8ml | 8 gal. 30310.4ml |
| 20" - 24" | 1 gal. 3788.8 | 3 gal. 11366.4ml | 5 gal. 18944ml | 7 gal. 26521.6ml | 9 gal. 34099.2ml | 11 gal. 41676.8ml |
| 24" - 30" | 2 gal. 7577.6ml | 4 gal. 15155.2ml | 7 gal. 26521.6ml | 11 gal. 41676.8ml | 14 gal. 53043.20ml | 18 gal. 68198.4ml |
| 30" - 36" | 3 gal. 11366.4ml | 5 gal. 18944ml | 10 gal. 37888ml | 15 gal. 56832ml | 20 gal. 75776ml | 25 gal. 94720ml |

Amount of 5.25% Hypochlorite laundry bleach for well disinfection to obtain a 50 part per million (ppm) chlorine solution in the well