

# YOUR FAMILY CAN SAVE MONEY BY DRINKING TAP WATER

## Use the Sun to Remove Excess Chlorine Smell & Taste !

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### Can I drink the tap water in Port LaBelle?

#### Absolutely!

It is safe for your health and it tastes great after the excess chlorine has been removed.

Port LaBelle's tap water is now as good as any in the country. New York City (NYC) is generally ranked as best in the USA and Port LaBelle water is better than NYC in 10 water tests, similar in 7 tests and worse in only 3 tests. You can see the details about Port LaBelle drinking water quality at [www.HendryUtilities.com](http://www.HendryUtilities.com).

### Why does our tap water smell of chlorine?

Because it is required by law to have residual chlorine for safety.

Some people can smell or taste chlorine if it contains as little as 0.3 mg/L. Most can smell chlorine only when it exceeds 1.3 mg/L. Port LaBelle typically has between 1.0 and 3.0 mg/L residual chlorine (average = 1.5 mg/L).

### Can I store tap water for a long time?

Yes! It is safe for weeks, even a month.



If you store tap water in a clean, sealed container in the dark, the chlorine will keep it safe for weeks. Our new tap water is of such high quality that the residual chlorine remains for a very long time.

### Why is chlorine needed in tap water?

To kill disease-causing pathogens that may be in the water or pipes!

Chlorine in the form of HOCl and OCl<sup>-</sup>, as in bleach, is added to drinking water to destroy pathogenic organisms such as bacteria and viruses. It kills (disinfects) by breaking the chemical bonds in their cells.



EPA requires a residual level of chlorine disinfectant in pipelines to prevent microbial re-growth and help protect treated water throughout the water distribution system.

EPA requires min 0.2 mg/L & max 4.0 mg/L chlorine.

### What is a mg/L or ppm?

It's how we measure concentration.

1 mg/L = 1 ppm (part per million)

1 mg/L = 1 drop in a million drops of water

1 mg/L = 5 drops (0.25 ml) in a half-full standard bathtub.



### Who can answer questions about Port LaBelle Utility?

Roger Greer, Director, or Linda Murray, Secretary at 863-675-5376 or email at [www.HendryUtilities.com](http://www.HendryUtilities.com).

### Why drink tap water?

Save money, save energy & protect the environment!

You may be wasting money if you are still buying bottled drinking water now that the water from your tap is of much higher quality. Port LaBelle Utility raised rates an average of \$10 per month to pay for construction of the larger, state-of-the-art water treatment plant. Your family can save more than this \$10 per month if you start drinking the higher quality tap water quality instead of buying bottled water. Drinking tap water is also better for the environment since it saves all the energy that goes into bottling and transporting water to stores and homes.

### Save Money & Energy!



Use the power of solar UV rays to remove chlorine from tap water and make it better tasting.



Sunlight is FREE!

# How can I remove chlorine from my tap water?

Use natural sunlight (Ultraviolet Radiation) or an activated carbon filter!

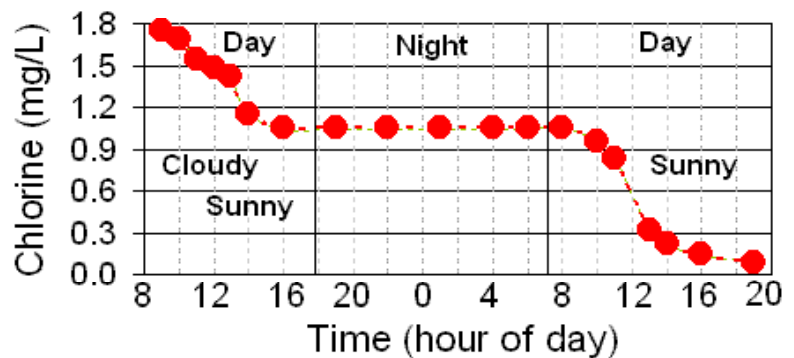
- Just leave a jug of tap water next to a window for a few days and then store it in a refrigerator.
- Or, purify your tap water using an inexpensive activated carbon filter pitcher.

## Sunlight (UV)

96% chlorine removal within 2 days

Simply allowing tap water to sit and aerate in the refrigerator or on a dark shelf does not remove the chlorine. By comparison, chlorine is dramatically reduced by exposing a jug of tap water to sunlight through a south-facing window for 2 days. **UV light** (ultraviolet radiation) is the part of sunlight that causes sunburn. UV light is effective for **chlorine removal** and **disinfection**. Two types of plastic bottles were used for this test - #1 PETE (clear, rigid bottles) and #2 HDPE (cloudy, flexible jugs). Type 1 bottles degrade slower than type 2 jugs when subjected to time, UV, & heat. Type 1 bottles are reported to have lower potential for leaching plastic byproducts into the water when used repeatedly over long periods. Use of glass containers eliminates any possible risk associated with plastic containers. However, any container you use for water storage should be kept clean and stored properly.

*Don't forget to put the water in a refrigerator after the sunlight treatment to keep it cool and safe!*



## Activated Carbon Filtration

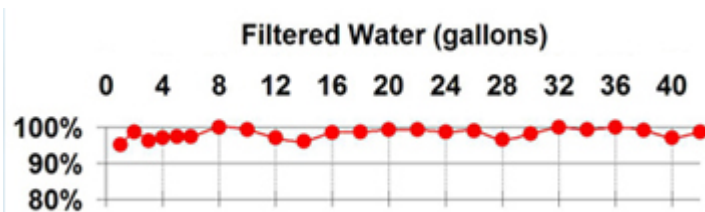
100% removal for 40 gallons

The carbon filtration method was tested using a Brita water filter pitcher. Residual chlorine was totally (100%) removed by filtering 2 gallons per day up to 40 gallons (Brita filter replacement criteria). Filtering more than 2 gallons per day reduced the chlorine removal rate to 95%. Well beyond Brita recommendations, filtering 6 gallons per day up to 120 gallons reduced chlorine by at least 80% - still very effective.

Activated carbon filtration removes not only chlorine, but also metals and organics compounds from water. There are many types of activated carbon filters. The Brita brand is simply one example product. Before purchasing a filter, check the label to verify it is an activated carbon filter. Also be sure to follow the instructions on filter replacement frequency, although for chlorine removal purposes the filters often work much longer than the manufacturer states.



2 gallons per day (total of 40 gallons)  
at a cost of \$0.35 per gallon



6 gallons per day (total of 120 gallons)  
at a cost of \$0.12 per gallon

