

## THE PATH OF WATER THROUGH CARNATION

Located in downtown, the Carnation Treatment Plant supports Carnation and the region system by treating sewage in this growing area. All the water that goes down your drains goes to this treatment plant – even if you use a septic system!

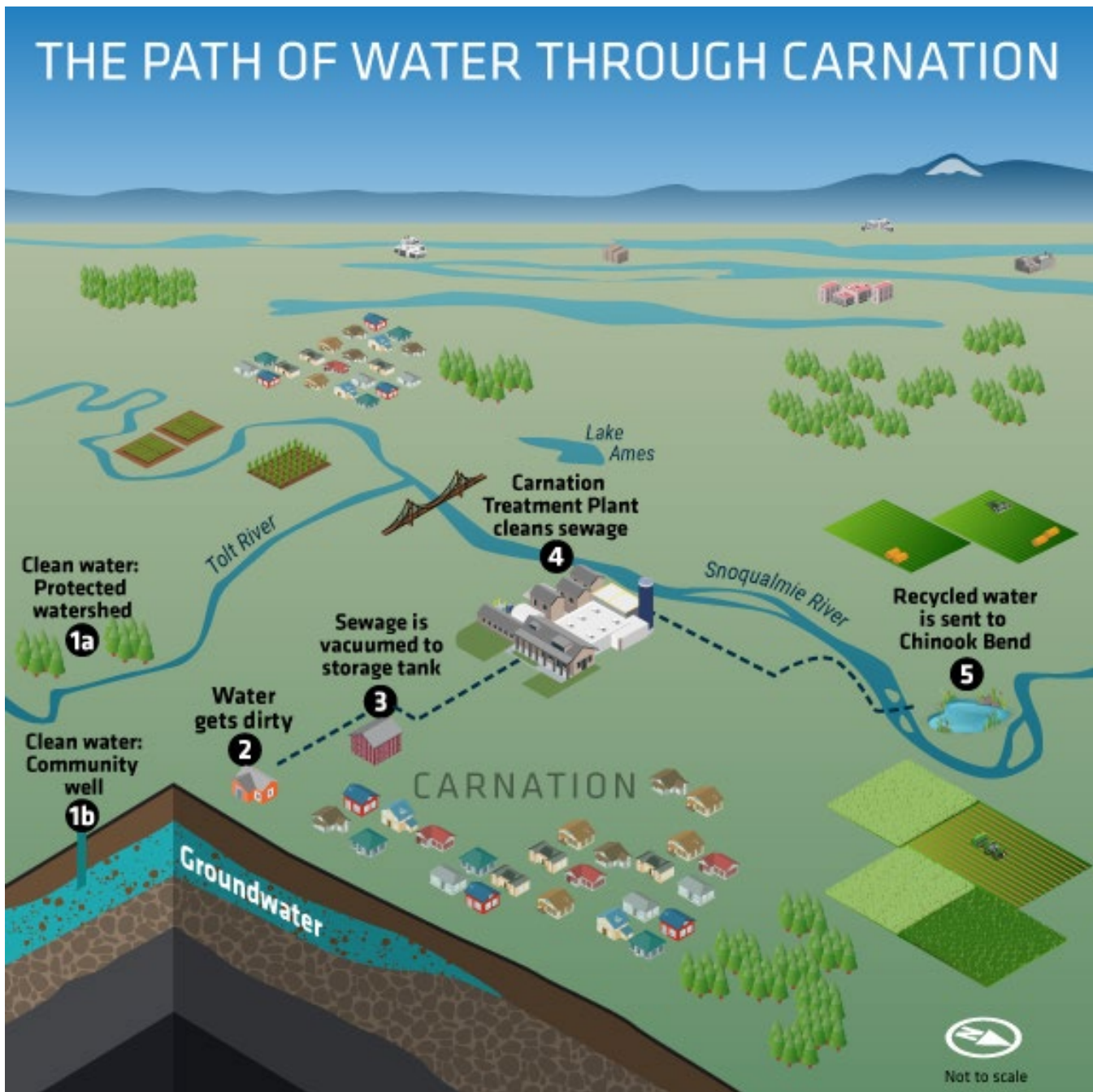
## LOOK INSIDE TO LEARN HOW WATER MOVES THROUGH CARNATION!

What goes down the drain ends up in your system. Using a septic system? Help protect public health and the environment by properly disposing of waste!

- Don't flush trash! Place cleaning supplies like rags and mop heads will damage the treatment system. These go in your garbage bins.
- Don't flush chemicals! The tiny living things that breakdown the waste in your septic system don't like harsh chemicals. Pouring chemicals down your drain can kill them off and damage your septic system.
- Limit garbage disposal use. Fats, oils, and grease can clog the drainfield and should never go down the drain.



# THE PATH OF WATER THROUGH CARNATION



## THE PATH OF WATER THROUGH CARNATION STARTS WITH:

### 1a – Clean water: Protected watershed

Your drinking water comes from a spring near Langlois Lake, about a mile south of the City of Carnation. The City protects and maintains this spring and treats the water making sure it is safe to drink and use in your home.

### 1b – Clean water: Community well

The back up source of drinking water also comes from well 160 feet underground. You can see this community well at the corner of Entwistle and Milwaukee Streets. The City of Carnation protects the space to make sure the water stays clean!

## **2 – Water gets dirty when you use it**

After the City of Carnation treats water from the watershed or well, it comes to your house through underground pipes and is ready to use!

By running water down your drains, you are part of the Carnation water cycle – please use water efficiently!

## **3 – Carnation Sewer District’s storage tank keeps your septic tank from overflowing**

If you are on septic, the Carnation Sewer District manages and collects sewage from your septic system. When your septic tank reaches a certain level of sewage, vacuums in the local system suck out the sewage to the larger storage tank. The sewage sucked out of your septic tank goes to the Carnation Treatment Plant for treatment.

*KEEP AN EYE ON YOUR SEPTIC SYSTEM!*

Average septic systems should be inspected at least every 3 years by a septic professional. Alternative systems should be inspected more often.

## **4 – Treatment at King County’s Carnation Treatment Plant cleans the water you use every day**

The water you send down your drains eventually goes to King County’s Carnation Treatment Plant on Larson Ave.

We process about 111,000 gallons of sewage every day – enough to fill up 3 football fields.

We have advanced filters that trap bacteria, food, puke, and poop waste.

The final step!

Ultraviolet light, which is like the sun's rays, plays a crucial role in our sewage disinfection process.

We treat the sewage to a recycled water standard that is safe for fish and wildlife.

## **5 - Returning clean water to Chinook Bend Natural Area keeps more water available fish and wildlife**

Recycled water from Carnation Treatment Plant is sent to the wetlands in the Chinook Bend Natural Area, just north of Carnation.

These wetlands help fish and wildlife, like Chinook salmon, by giving them a better place to live.

It also creates a space for people to play and enjoy fun activities.

## **Updates in the works!**

We are working on several upgrades to the Carnation Treatment Plant to make it work better.

We do not expect any disruptions to your service while we make these changes.

- Upgrading UV disinfection system – We use ultraviolet light, like the sun, as part of our sewage disinfection process. Our current system is as old, so this project will replace the current system with new technology.
- Replacing Influent flowmeter – This tool measures the amount of sewage coming into the treatment plant from the Carnation Sewer District’s storage facility. The storage facility will be temporarily shut down for a few overnight hours. This will not cause disruptions to your service.
- Recoating membrane tank – This is the next phase of our membrane replacement project from 2022 (which improved plant performance). We started recoating tanks in the summer of 2022, and this work will continue through the summer of 2023.



- Other ongoing projects – We are upgrading the pump that pushes water into the tanks where we filter the water. Second, we are testing a new mix of chemicals to help clean the sewage (called magnesium hydroxide). Both these projects will continue through 2023.

**Interested in learning more about the Carnation Treatment Plant?**

Check out our newly updated website where you can learn more about our advanced treatment process, how it supports sustainability initiatives, and more!