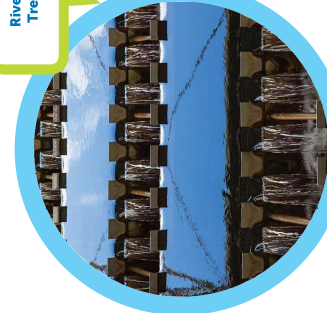
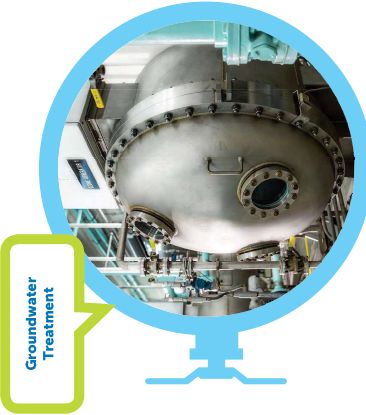


# THE TREATMENT IT DESERVES

With three different sources of supply, Tampa Bay Water has three different treatment processes, each engineered to clean and disinfect drinking water so it meets or is better than the health-based standards for drinking water established in the Safe Drinking Water Act. Water treatment plants use proven technology, advanced disinfection, corrosion control and state-certified operators to ensure a high-quality product.



River Water Treatment



Groundwater Treatment

Groundwater requires less treatment than river water and seawater because nature does most of the cleaning for us. The Floridan Aquifer serves as a natural filter as water moves through it, leaving only the need to disinfect and stabilize water before we blend it with our other sources.

The area's river water treatment plant and seawater desalination plant use multi-step processes for added safety. Both facilities strain water to remove large debris, then use a conventional treatment process in which chemicals are added that cause small particles to clump together and settle out.



Seawater Treatment



Ozone Disinfection

At the surface water treatment plant, the water is disinfected using ozone, one of the most powerful disinfectants available in water treatment. The water is again filtered and disinfected with chloramines before being blended with other sources and distributed to Tampa Bay Water's member governments.



Reverse Osmosis Filters

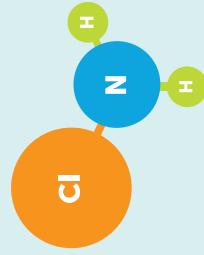
At the seawater desalination plant, after the conventional process, water flows through progressively finer filters to remove any remaining matter. Highly filtered seawater is then forced at high pressure through reverse osmosis (RO) membranes that remove salt. The size of each RO membrane pore is about .001 microns, which is about 1/100,000th the diameter of a human hair. Chemicals are added to stabilize the desalinated seawater, which is then disinfected with chloramines before being blended and distributed to Tampa Bay Water's member governments and eventually to you.



## GOING BEYOND THE TEXT

### LEARNING NEW WORDS

There are so many cool words on these pages—**contamination**, **utilities**, **disinfectant**. Have you heard these words before? What do they mean? How can you figure out what they mean using the context clues within the sentences? When you study new things, you often come up against some tough vocabulary words. While you read this publication, be sure to highlight or circle all of the words you don't know. Try to figure out the words' meanings by looking for clues in the sentences around them. Write down your best guesses and then look up the words in a dictionary. As a group activity, make up the words' meanings. You can even make up a story to help you remember the words. Now it's your turn to play the word scavenger hunt. See if you can find these words in the Tampa Bay Times. The group that finds the most words wins the game.



## KEEPING IT SAFE ON THE WAY TO YOU

Tampa Bay Water uses chloramines, a combination of chlorine and ammonia, as a final disinfectant because it reduces disinfection byproducts, reduces the chlorine smell, and produces better-tasting water. It is a powerful disinfectant that ensures the water stays clean and safe throughout our vast distribution network and to our most distant customers.