

Summer
2021

ONTAP

A QUARTERLY PUBLICATION FOR PADUCAH WATER CONSUMERS

2021 Water Quality Report

PW's Annual Water Quality Report for 2021 is now available. To view the report, please type <http://www.pwwky.com/ccr> into your web browser. You can also go directly to the Paducah Water website at www.pwwky.com and click on the icon that says "2021 Water Quality Report." Or, you can view the report on your smart phone by hovering over the QR code below. We only mail the report to a few homes and businesses in our service area, but paper copies are available by request. If you would like a paper copy, please call us at 270-442-2746, or stop by our business office at 1800 North 8th Street.

**Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo o hable con alguien que lo entienda bien.*

2021 WATER
QUALITY REPORT



What Makes a Drop a Drop?

Water molecules are very sticky. In fact, water possesses the properties of both **cohesion** and **adhesion**. **Cohesion** means water molecules like to stick to each other. This intense attraction occurs through the formation of hydrogen bonds. **Adhesion** means water molecules are attracted to the molecules of other substances, thus creating another "sticky situation."

Study a water drop for a moment. Does it appear to have a "skin" surrounding it to hold it in place and help maintain its shape? That alleged skin (which is definitely not skin



at all) is the result of **surface tension**, a byproduct of cohesion. Water molecules exhibit strong cohesive forces (remember... they like sticking together). However, the molecules on the surface have no neighboring water molecules with which to exhibit their clingy behavior. So, they hug neighboring water molecules even tighter, creating tension at the surface. That tension at the surface layer gives a water drop its spherical shape.

So remember: **Cohesion** creates a water drop. **Surface tension** give the drop its bulbous shape. **Adhesion** makes a drop stick to other surfaces.

Cohesion, Adhesion and Surface Tension in Action: Fill a glass of water to the very top. Then, slowly add a few more drops of water. Do you notice a dome-like shape above the rim of the glass? That means cohesion and surface tension are hard at work. Now, pour the water out of the glass. Several drops refuse to depart. No matter how much you shake or maneuver the container, adhesion prevails, making several drops of water cling to the container.

Sources: https://www.usgs.gov/special-topic/water-science-school/science/adhesion-and-cohesion-water?qt-science_center_objects=0#qt-science_center_objects; <https://www.khanacademy.org/science/ap-biology/chemistry-of-life/structure-of-water-and-hydrogen-bonding/a/cohesion-and-adhesion-in-water>



Promotions & New Hires



Congratulations to Jason Petersen, as he succeeds Bill Robertson as General Manager effective July 1, 2021. Jason came to Paducah Water in 2013 as Engineering Manager.



Congratulations to Jacob Northington on his promotion from Engineer to Engineering Manager, effective July 1, 2021.



Dalton Gilbert joined the PW team as a Control Systems Technician. Welcome aboard, Dalton!

So Long, Bill

How do you make your tenure at your job memorable? Just ask Bill Robertson, who came to Paducah Water in the midst of an every-hundred-years weather event, and now leaves at the end of an every-hundred-years global health crisis!

Mr. Robertson began working as PW's Engineer on February 1, 2009. As you may remember, most in our area were battling the lasting effects of ***THE*** ice storm at that time. Bill, however, was navigating the ice storm and acclimating to a new work environment. While at PW, Bill oversaw several significant projects and made numerous improvements to our system and treatment facilities. He accomplished those tasks while also working in each of our four departments to learn more about the company in preparation of becoming General Manager in August 2014. As General Manager, Bill continued to work for the betterment of our service area. He was often heard stating PW's most important goal, "We're here to make good, clean, safe drinking water



at the lowest possible price."

As the Covid-19 pandemic dwindles, Mr. Robertson's time at Paducah Water does the same. Bill retires on July 6 after nearly 12 years at Paducah Water, and 39 years as a professional engineer. Please join us in wishing Bill much happiness and enjoyment throughout his retirement!



Commissioners Of Waterworks

W. Edward Barker, Chair

Angela Copeland, Commissioner
Randy DeHart, Commissioner

Tom Clayton, Commissioner
Heather Pierce, Commissioner

Bill Shannon, Commissioner
David Guess, Ex Officio

Questions?

You may contact any of the people listed below using the contact information to the right.

General Manager

Jason Peterson

Engineering Manager

Jacob Northington

Water Plant Superintendent

Tee Vinson

Customer Service Supervisor

Tracie Case

Distribution Superintendent

Scott Shrum

Published By

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