# Protecting Public Health in the Era of Emerging Contaminants

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NC Primary Care Conference





### **Toxin taints CFPUA drinking water**



By Vaughn Hagerty StarNews Correspondent

Posted Jun 7, 2017 at 10:31 AM Updated Jun 8, 2017 at 10:38 AM



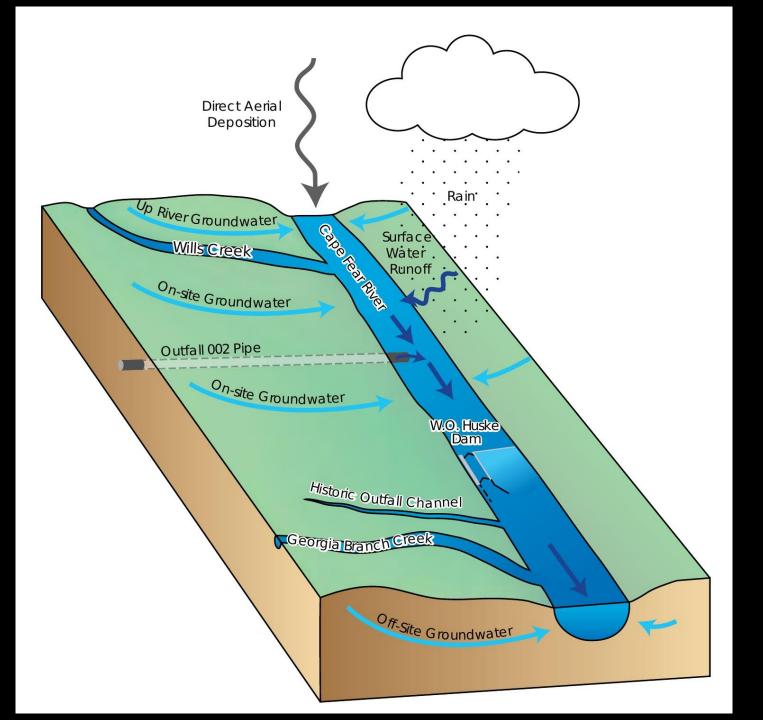






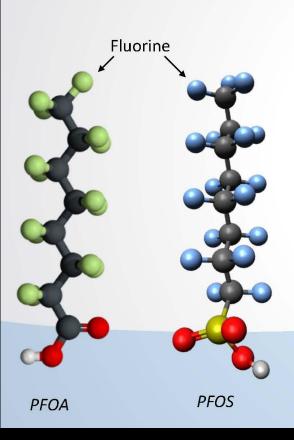
Utility can't filter out chemical produced upriver at Fayetteville plant

WILMINGTON -- A chemical replacement for a key ingredient in Teflon linked to cancer and a host of other ailments has been found in the drinking water system of the Cape Fear Public Utility Authority (CFPUA), which cannot filter it.



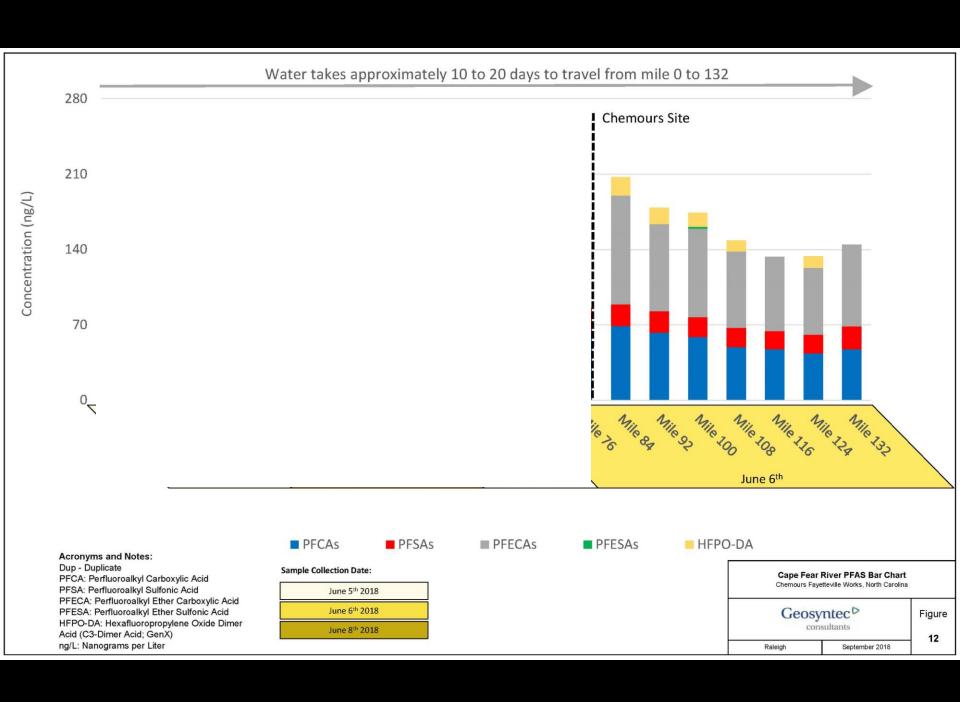


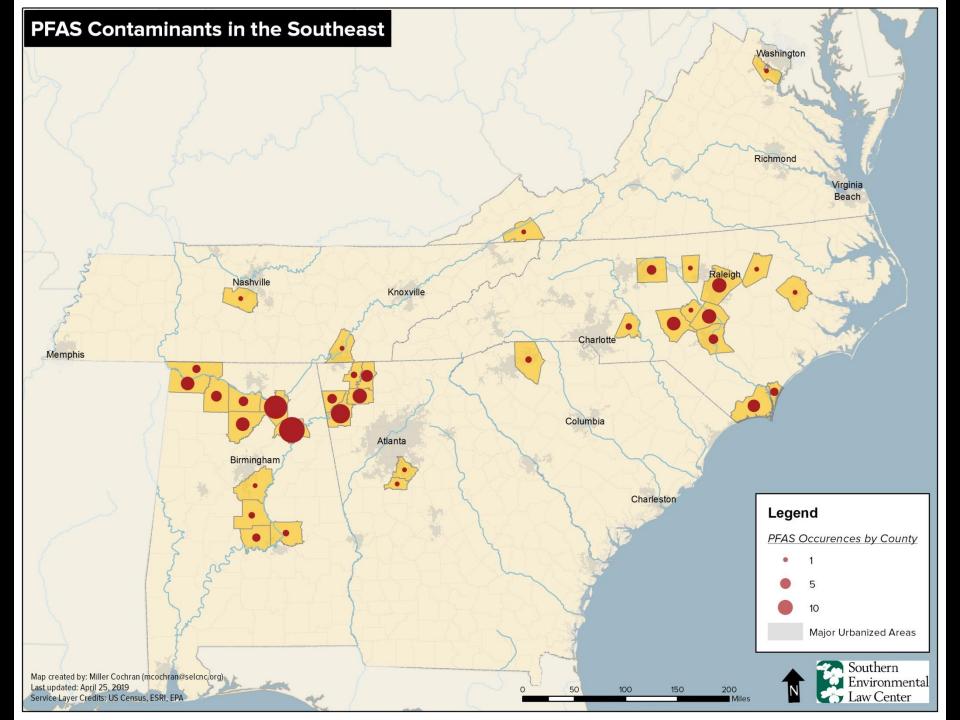
## Per- and Polyfluoroalkyl Substances (PFAS)

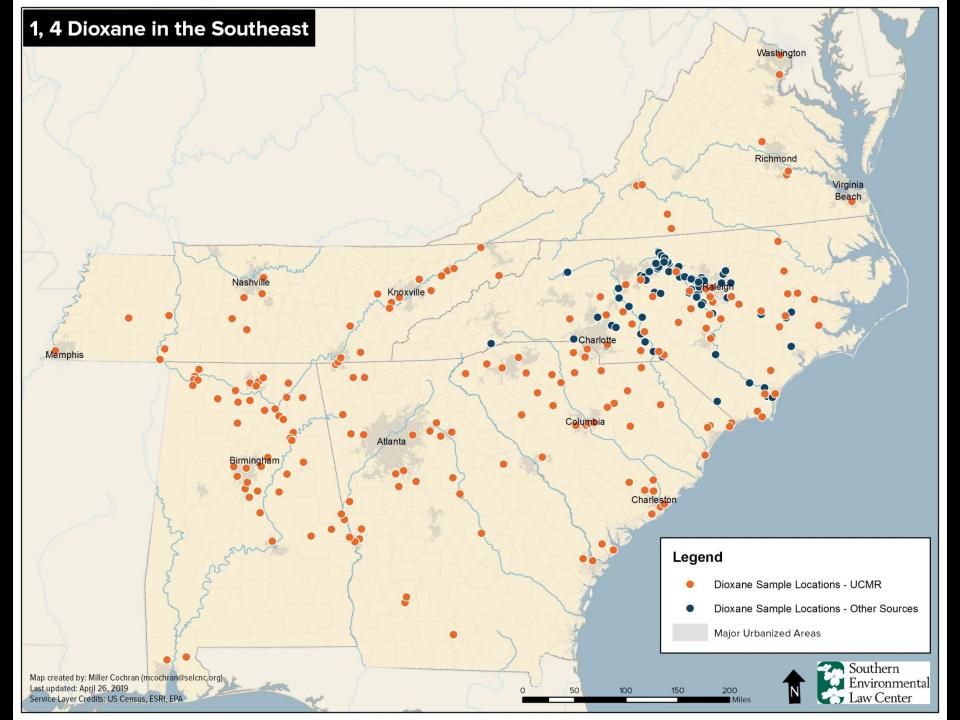


#### A class of man-made chemicals

- Chains of carbon (C) atoms surrounded by fluorine (F) atoms, with different endings
- Complicated chemistry thousands of different variations exist in commerce
- Widely used in industrial processes and in consumer products
- Some PFAS are known to be PBT:
  - Persistent in the environment
  - Bioaccumulative in organisms
  - Toxic at relatively low (ppt) levels







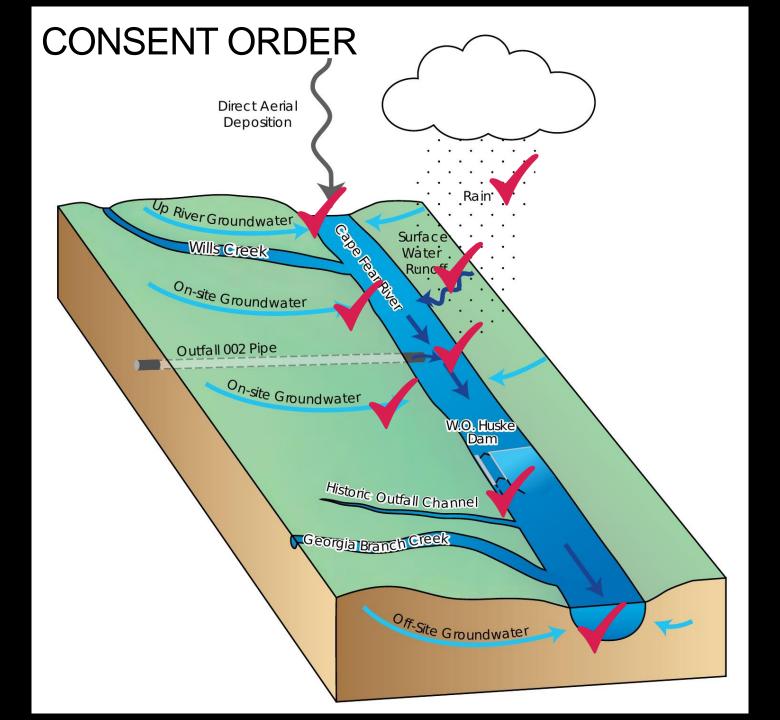
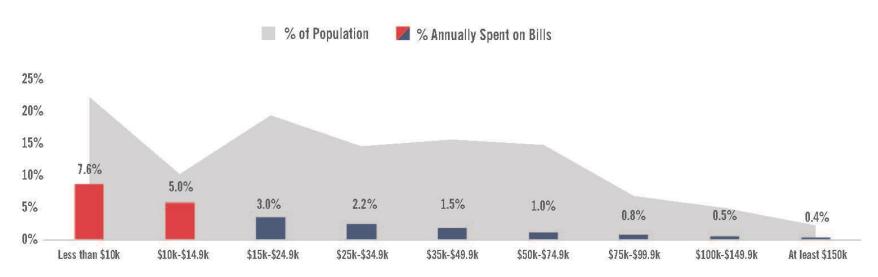


Figure 2. Affordability of Water and Wastewater Rates in Detroit

(Assessed at 5,000 Gallons/Month and 2015 Income Levels)



Note: EPA guidelines suggest that spending more than 4.5 percent of household income on drinking water and wastewater combined is unaffordable.

Source: University of North Carolina at Chapel Hill Environmental Finance Center<sup>13</sup>

## Questions?

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