**What are PFAS?**

PFAS, short for perfluorooalkyl substances, is a group of thousands of man-made compounds with carbon and fluorine (C-F) bonds. These bonds make PFAS extremely stable and resistant to most degradation processes. They also bioaccumulate in the environment, earning them the label of “forever chemicals”. PFAS have been detected in drinking water samples across NYS. Particularly high concentrations were recorded in the Village of Hoosick Falls, Town of Petersburgh, the Newburgh area and in Nassau, Dutchess, and Suffolk counties. 1,2

**What are some products that commonly contain PFAS?**

PFAS have been used since the 1940s in consumer products such as non-stick cookware and utensils, food packaging, polishes, cleaning agents, stain-resistant and waterproof clothes, textiles, and paper, and in industrial products such as firefighting foams, hydraulic fluids, mist suppressants, lubricating oils, and chemicals in electronics.

**How are people exposed to PFAS?**

People are exposed to PFAS through:

- Drinking water and consumption of fish and shellfish that is contaminated with PFAS
- Consumption of meat, milk and eggs of livestock raised on PFAS-contaminated land
- Household use of PFAS-containing products
- Consumption of food that came in contact with PFAS-containing products (e.g., some microwaveable popcorn bags and grease-resistant papers)

**What are the health effects of exposure to PFAS?**

Research has shown a potential link of PFAS exposure to increased cholesterol levels, liver damage, increased risk of kidney and testicular cancer, thyroid disease, increased risk of high blood pressure or pre-eclampsia in pregnant women, as well as delayed mammary gland development, reduced response to vaccines, and lower birth weight in unborn children. 3-10

**Are PFAS still being produced in the U.S.?**

The two most common PFAS (“PFOS”: perfluorooctane sulfonic acid and “PFOA”: perfluorooctanoic acid) and other PFAS compounds that have 8 or more carbon atoms have been phased out in the U.S. but can still be imported into the U.S. in consumer goods. Shorter chain PFAS are still commercially produced in the U.S. While short chain PFAS have been branded as safer and less toxic, they are similarly persistent in the environment and may have similar health impacts as long-chain PFAS. 11-13

**Are PFAS regulated in drinking water in the NYS?**

There are currently no federal regulations of PFAS in drinking water. Many states have set their own maximum contaminant levels (MCLs) for PFOA and PFOS. In NYS, the Department of Health (DOH) established MCLs of 10 ppt each for PFOA and PFOS in July of 2020. In December of 2021, NY Governor Hochul signed a new amendment (1112) to the Public Health Law directing the DOH to publish MCLs for 23 PFAS by June 2022 (S.1759-A/A.0126-A). Establishing MCLs for these compounds will result in the mandatory measurement of these 23 chemicals (in addition to PFOA and PFOS) for every water utility in NYS. Utilities that detect unsafe levels must then proceed to notify their local health department and the public, before developing a plan of action to reduce PFAS levels below the MCL (including possible upgrades to water infrastructure).

**How do I know if my tap water is contaminated with PFAS?**

To test your tap water for PFAS, you should have your samples tested by an EPA-certified laboratory. There are 6 EPA-accredited labs that measure PFOS and PFOA in NYS, 3 of which are commercial labs that accept home samples. To search for an EPA-certified lab online:

1. Go to the Department of Health’s “Search NY Accredited Environmental Laboratories” tool.

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a The USEPA has approved USEPA method 537.1 for the measurement of 29 PFAS.
2. Use the Advanced Search box, then choose: “Potable Water” for CATEGORY and a PFAS compound (e.g., perfluorooctanesulfonic acid (PFOS), perfluorooctanoic acid (PFOA), etc….) for ANALYTE.
3. Hit “View Results”
4. Type “NY” in the Search bar (skip this step if you are not restricting your search by state).
5. Under Type, you’ll find the available “Commercial” labs that you can contact for instructions on testing.

What can I do at home if my drinking water is contaminated with PFAS?
If your drinking water is contaminated with PFAS, you can install a certified in-home treatment system that uses activated carbon filtration or reverse osmosis. Certified filters that have NSF/ANSI 53 or NSF/ANSI 58 are verified as able to remove PFAS. While anion exchange treatment can also remove PFAS, there is currently no product certification for it. For a list of certified products that remove PFAS, visit NSF Official Listings. You might also consider contacting your elected officials to communicate your PFAS results and urge action on the matter.

For more information on PFAS, check out the following resources:
- National Institute of Environmental Sciences: Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)
- American Water Works Association: Per- and Polyfluoroalkyl Substances (PFAS): Overview and Prevalence
- NYS Department of Environmental Conservation (DEC): Per- and Polyfluoroalkyl Substances (PFAS)
- Environmental Protection Agency: Per- and Polyfluoroalkyl Substances (PFAS)

REFERENCES
2. Environmental Working Group (EWG), 2020. PFAS contamination in the U.S. Website: https://www.ewg.org/interactive-maps/pfas_contamination/map/
3. Environmental Protection Agency (EPA), 2018. Basic Information on PFAS. Website: https://www.epa.gov/pfas/basic-information-pfas#exposed