

# PFAS Water Sampling for Homeowners

## Can I sample my own water?

Sampling your drinking water for per- and polyfluoroalkyl substances (PFAS) can be challenging due to the prevalence of PFAS in consumer products such as water-resistant clothing, boots, gloves, sunscreen, lotions, cosmetics, and food packaging. All of these products may contain PFAS and can contaminate samples. To ensure a quality, representative sample, make sure your sample area is free of any PFAS-containing material.

## How much does it cost?

The cost of PFAS analysis typically ranges between \$250 and \$500, depending on the laboratory.

## Can I be reimbursed?

The DEP will reimburse the cost of this testing up to a certain amount only if sampling was conducted in general accordance with the DEP's sampling guidance, a Maine-accredited and DEP-approved laboratory was used, you provide the laboratory results to the DEP for review, and the source of PFAS can be tied to a DEP-licensed sludge or septage land application site or other remediation-type site as verified by the DEP.

## How do I find a laboratory?

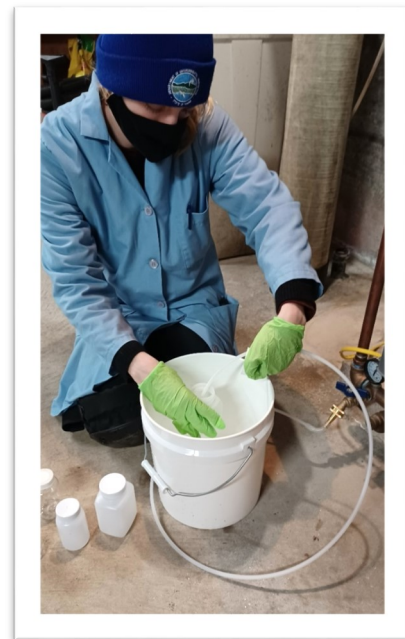
The DEP has compiled a list of Maine Laboratories that can perform analytical services. [Laboratories in Maine that Conduct Residential PFAS Analysis for Water and Soil.](#)

## What do I ask for from the lab?

1. Explain that you want to self-test your own drinking water for PFAS.
2. Ask for "Method 537.1, modified with isotope dilution." The compound list should include a list of 28 PFAS.

**Note: To prevent contamination of your sample, make sure your hands are free of lotion and thoroughly washed. Do not wear waterproof clothing. Use nitrile gloves.**

3. Ask that the laboratory reports include all quality control information. This is generally referred to as a "Level 2 Report."
4. Ask the laboratory for an [electronic deliverable data \(EDD\)](#) in DEP's latest format. This is important if you wish to seek reimbursement.



## General Sampling Information

Samples collected from active drinking water sources should be collected during normal operating conditions. Follow the instructions you received from the laboratory, and use only laboratory provided sample containers.

Each sample kit typically includes two bottles. The kit may also include bottles for a field blank or duplicate sample.

**Field Blank:** A field blank typically consists of two bottles: one containing PFAS-free water and another that is empty. The PFAS-free water is to be poured into the second empty container. This confirms that your sampling methods are not cross contaminating the water samples. A field blank is optional, and is an added expense.

**Duplicate Sample:** The laboratory may include extra bottles and request that you collect a second sample, free of charge. This is used as confirmation that the laboratory's analyses are accurate.

## Sampling Steps

1. Once you've carefully read the directions that came with your laboratory kit, **start running cold water for ten minutes at a high flow rate** to flush out stagnant water and bring fresh water from the well. This can be done at a sink, a shower or bathtub, or at an outside spigot.
2. Pick the location of your sample. **The preferred location is to sample from your pressure tank tap;** however, an outside spigot also works well. Sampling from a kitchen or bathroom tap is okay as a last resort.
3. From each of the below locations, the **water should now be reduced to run at a slow/low rate** for one to two minutes before sampling to avoid splashing when filling your bottles:
  - a. From your pressure tank: If you have the space, turn on the spigot located on the front of your tank. Use a bucket or large bowl to collect water.
  - b. From an outside spigot: Take off any hose fittings so you can collect the sample directly from the spigot.
  - c. From a bathroom or kitchen sink: Before sampling, remove faucet aerator and turn on cold water at the sample location.
3. Wearing nitrile gloves, open the sample bottle. Hold the cap in one hand and fill the sample bottle with the other hand.
  - a. Do not place the cap on any surface and avoid all contact with the inside of the sample bottle and cap.
  - b. Avoid contact with any Teflon® tape



or pipe thread paste on pipe fittings or sampling tap threads on the water supply discharge pipe.

5. Fill the sample bottle to the neck of the bottle or a fill line if marked on the sample bottle. Do not overfill.
  - a. Some laboratories use a preservative in the sample bottle. It may be a white powder or a tablet. If your bottles contain a preservative, take care not to overfill or spill the preservative.
6. When the bottle is full, carefully cap the bottle without touching the inside of the cap.
7. Agitate the sample by hand (turn the bottle upside-down and right-side up approximately 5 times) until any preservative is dissolved. Do not re-open bottle from this point forward.
8. Make sure each bottle is labeled with the time, the date, and the address where the sample was collected. Once labeled, place each bottle in a sealed Ziploc<sup>®</sup> bag and if the lab says to do so, place the bottles in a cooler.
  - a. The cooler should only have PFAS samples in it (no other sample types allowed).
9. Fill out the Chain of Custody or laboratory forms, including the address of the sample location, the sampling date and time, and the name and signature of the sampler.
  - b. Use ice to keep the sample cool. Do not use blue ice packs or any other chemical-containing cool-pack.
  - c. Samples should be kept at 40°F. Sample temperatures must not exceed 50°F during the first 48 hours after collection. Use enough ice so that the samples remain sufficiently cold until they are received by the laboratory. Adequate ice is especially important when collecting samples during hot weather or using overnight sample shipment.
  - d. The hold time for PFAS samples is 14 days. Try to get samples sent to the laboratory quickly.

---

## Does DEP want my results?

Yes. Even if your results are under Maine's interim drinking water standard, please consider providing the DEP with your laboratory report along with an [electronic deliverable data \(EDD\)](#) in DEP's latest format. DEP will check the laboratory information and data to make sure you have received quality data. DEP will be able to use good data to help us understand more about PFAS impacts to groundwater in Maine.

## Who can help me read my lab report?

The DEP has created [guidance to help you read your laboratory report](#). You may also email your questions to [pfas.dep@maine.gov](mailto:pfas.dep@maine.gov). Please consider attaching your laboratory report to help us better assist you.

Version Update: September 2023

Find this document and additional resources: [www.maine.gov/dep/spills/topics/pfas](http://www.maine.gov/dep/spills/topics/pfas)