

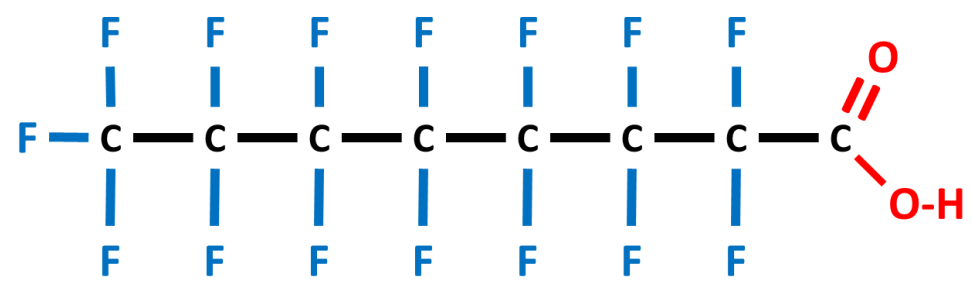


Town of Pepperell PFAS Information

Selectboard Meeting
May 10, 2021

Mary Jude Pigsley, Regional Director
Marielle Stone, Deputy Regional Director
MassDEP Central Regional Office

What Are PFAS?



Poly- and perfluoroalkyl Substances

A family of thousands of compounds with varying structure

(e.g, carbon chain length)

- **Extremely stable** – Heat & Stain Resistant, Water repellent
- **“Forever chemicals”** - Very persistent, do not biodegrade
- **Water Soluble**
- **Some are very toxic**
 - Slowly excreted from the body – half lives of years (1-8+ for longer-chain)
 - Developmental risks to fetus/infants
 - Endocrine Disruption
 - Cancers

Common Uses of PFAS Since the 1940s

- Textile treatments: stain resistance/ water repellency
- Paper coatings: grease resistant
- Waxes: some floor, car, ski
- Hairsprays
- “Waterproof” down
- Manufacturing
- Aqueous Film-Forming Foam (AFFF)



Most Americans have been exposed to some levels of PFAS through use of consumer products

What Are Exposures of Concern for PFAS?

Sensitive groups – *Including pregnant women, nursing mothers and infants, and immuno-compromised individuals*
– through **drinking** (and cooking with)
contaminated water in a **residential setting**

Water uses that pose (relatively) less concern include:

- Water use by individual not considered in “sensitive group”
- Non-residential water use – *restaurants, workplace*
- Water use for other purposes – *bathing, washing vegetables*

Ways an individual may reduce potential exposure:

- Drink and cook with bottled water
- Use a home water treatment system (NSF certification)

Maximum Contaminant Level PFAS6

310 CMR 22.07G

- MCL effective October 2, 2020
- **20 parts per trillion** for the total concentration of **six PFAS compounds combined**
- First year requires quarterly sampling for compliance, phased in based on size of public water systems (January 2021, April 2021, October 2021)

Sampling Requirements

- Compliance based on quarterly sampling at each entry point to the water distribution system
- If any PFAS is detected in an initial sample, a confirmation sample is required. Results of two samples for PFAS6 are averaged for compliance purposes
- If the average of the two samples is > 10 ppt, the system must sample monthly



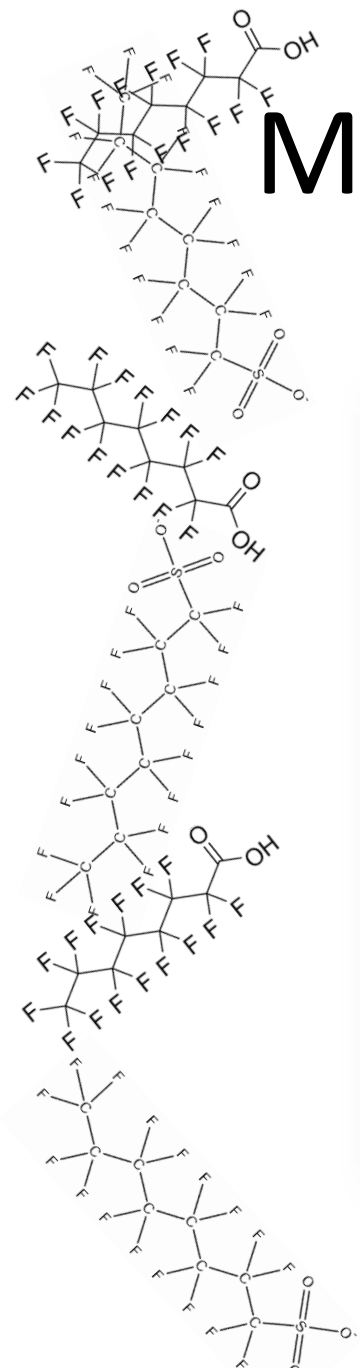
If the average of the two samples (or any single following monthly sample) is > 20 ppt for PFAS6, the system must distribute Public Education materials.

Pepperell PFAS Sampling Results

Source Name	Source Code (Raw/Finish)	Sampling March 8th	Sampling April 6th	Comment
Nashua Road	05G (Finished)	23.3	19.76	average = 22 ppt
Nashua Road Well	RW-05G (Raw)	24.5	20.9	average = 23 ppt
Jersey Street Blend	Mult (Finished)	12.3	6.54	average = 9 ppt
Well #1 Jersey St	RW-02G (Raw)	12.6	10.1	average = 11 ppt
Well #2 Jersey St	RW-03G (Raw)	7.93	7.52	average = 8 ppt
Bemis Road	04G (Finished)	Not Sampled	Not Sampled	Off-line
Bemis Rd Well #1	RW-01G (Raw)	Not Sampled	0	
Bemis Rd Well #2	RW-04G (Raw)	Not Sampled	0	

Public Education Materials

- MassDEP form to be mailed to all customers to inform them of the results > 20 ppt
- Presents the sampling results and explains the PFAS6 MCL
- Explains that the exceedance is **not a violation** because the standard is based on a quarterly average
- Describes health effects in general and to certain sensitive groups (pregnant and nursing women, infants, and immuno-compromised individuals)
- Provides information about steps consumers can take to reduce exposure to PFAS6 in the drinking water
- Identifies the steps the water supplier is taking and a point of contact for questions



More Information...

Just Google... *MassDEP PFAS*

Google search results for "MassDEP PFAS". The search bar shows "MassDEP PFAS" and the Google logo. Below the search bar are navigation links for All, News, Images, Shopping, Maps, More, Settings, and Tools. The results show "About 5,850 results (0.35 seconds)".

Per- and Polyfluoroalkyl Substances (PFAS) | Mass.gov
<https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-...>
Scientists and regulators are still working to study and better understand the health risks posed by exposures to PFAS, and MassDEP is following developments ...
[What are PFAS and why are ...](#) · [Development of a PFAS ...](#) · [PFAS and Waste Sites](#)
You've visited this page 3 times. Last visit: 4/16/19

Development of a PFAS Drinking Water Standard (MCL)
<https://www.mass.gov/lists/development-of-a-pfas-drinking-water-stand...>
PFAS Petition for rulemaking to establish a treatment technique drinking water ... Information on MassDEP efforts to establish a drinking water standard for Per- ...
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[Drinking Water Contaminants Information for the Public | Mass...](#)

MassDEP ONLINE

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