

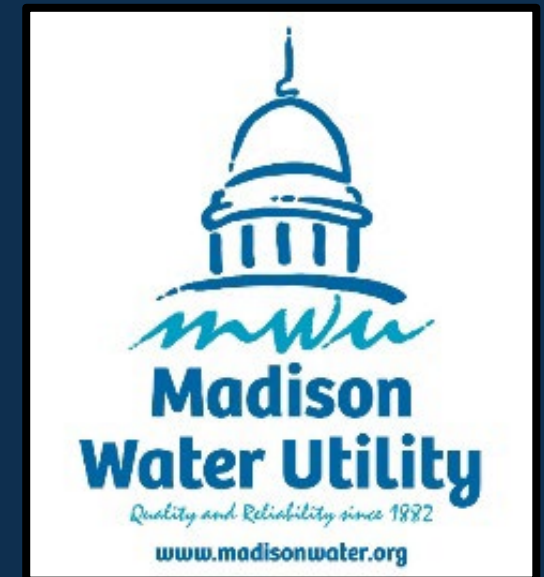
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# MADISON WATER BOARD

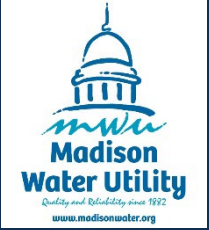
## PFAS HEALTH ADVISORIES

Krishna Kumar, General Manager  
Joe Grande, Water Quality Manager

June 28, 2022

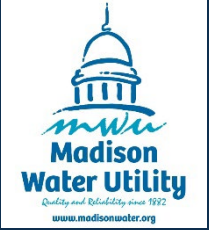


# US EPA Health Advisory



- Announcement of a ***Health Advisory (HA)*** is a critical step by the EPA in developing a drinking water regulation
- The HA value is the minimum concentration of a substance which may present health risks to a person ***over a lifetime of exposure***
- It is set based on risks to the most sensitive populations: infants, young children, and expectant mothers
- Update to 2016 HA for PFOA and PFOS, set at 70 parts per trillion, and 2009 provisional HAs which were much higher

# US EPA Announcement – 06/15/2022



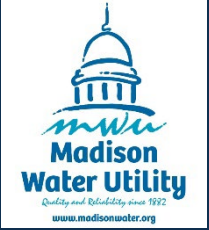
## Interim HAs

- PFOA – **0.004 ppt** (parts per trillion)
- PFOS – **0.02 ppt**

## Final HAs

- PFBS – **2,000 ppt**
- GenX – **10 ppt**

# PFAS Health Advisories



- Useful guidance before EPA develops a formal regulation
  - Non-regulatory and non-enforceable
  - A precursor to creating an MCL – a standard that all drinking water must meet
  - Not the same as an enforceable drinking water standard (MCL); **it is important not to conflate the two**
- EPA recommends that utilities: Assess, Inform, & Reduce potential exposures (Lower levels = Lower risk)

# How Does This Impact the Water Utility?



Some of the levels detected in our **22** drinking water wells are above the HAs, although still at very low levels

Compound	Health Advisory (ppt)	Number of MWU Wells Above HA	Number of Wells with Non Detect
PFOA	0.004	3	19
PFOS	0.02	4	18
PFBS	2,000	0	22
GenX	10	0	22

Based on most recent test results

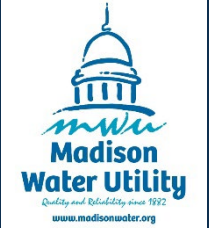
# Utility Wells with Detections



Compound	Health Advisory (ppt)	Well 8*	Well 15^	Well 16~	Well 26*
PFOA	0.004	0.860	6.1	ND	0.621
PFOS	0.02	0.904	5.9	1.42	0.776
PFBS	2,000	ND	3.4	ND	0.197
GenX	10	ND	ND	ND	ND

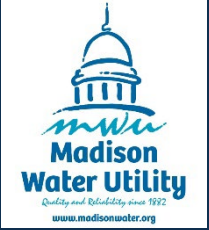
\*Based on 2021 Data    ^ Based on 2019 Data    ~ Based on 2022 Data  
 ND – Non-Detect

# Past Years PFAS Test Results



- In 2022, DNR prescribed the ‘practical’ detection level for PFOA & PFOS at 2 ppt
  - 2022 MWU test results are based on this standard
  - 4 wells above the current Health Advisory
- Before 2022, DNR did not have a prescribed detection level for PFOA & PFOS
  - MWU tests conducted before 2022 reported PFAS levels below 2 ppt
  - 16 wells above the current Health Advisory

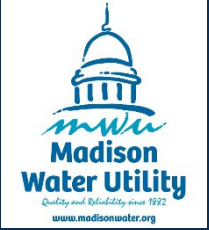
# Next Key Milestones



- US EPA is expected to propose in **fall 2022** and finalize in **fall 2023** a National Drinking Water Regulation for PFAS
- Utility has already hired AECOM to complete the design of a PFAS treatment facility at **Well 15** which is currently shut down; construction is planned for 2024
- When completed, Well 15 will likely be **the first PFAS treatment facility for drinking water in Wisconsin**

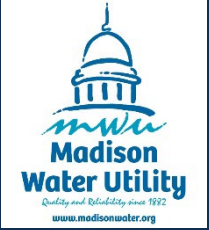


# Well 15 PFAS Treatment Facility Public Information Meeting & Listening Session - 1



- June 30th, 6:30-8:00 p.m.  
**East Madison Community Center**  
8 Straubel Court, Madison, WI, 53704
- First of several chances for members of the public to provide input on this project **AND**
- To express any opinions, concerns or recommended priorities

# Water Utility's Continuing Commitments



- The health and safety of Madison drinking water is our top priority
- We support US EPA in taking these initial steps toward the development of MCLs for PFAS
- We will continue to closely follow developments in this area
- ***Our drinking water more than meets all federal and state drinking water standards for health & safety***



# Questions / Comments?

## Contact Information:

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