

WELL 15 PFAS TREATMENT PROJECT

Public Information Meeting & Listening Session - 1 East Madison Community Center June 30, 6:30 – 8:00 PM

Joe Grande, Water Quality Manager – **Project Manager** Krishna Kumar, General Manager



Meeting Agenda

- 1. Welcome!
- 2. Well 15 Background & Context
- 3. PFAS Health Advisory Limits
- 4. Project Schedule
- 5. Planned Funding Sources
- 6. Next Steps
- 7. Listening Session

Your Madison Water Utility



- 22 Production Wells
 - Average daily pumping (2020): 24 MG
- 32 Water Tanks/Towers
 - 42 million gallons of storage
- **30 Pumping Stations**
- 904 Miles of Water Main
- 65,000 Service Connections

Human & Financial Capital:

Employees (FTE): 128

Annual Budget (2021)

Operating: \$45.6 million

Capital: \$6.6 million







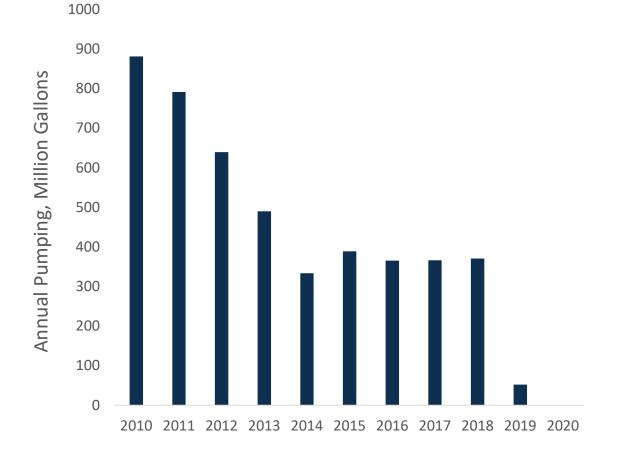
Water Utility Continuing Commitments

- Our top priority: Providing good, healthy and safe water
- We will not operate Well 15 until after the PFAS Treatment Project is complete
- We support US EPA in taking critical first steps toward the development of drinking water standards (MCLs) for PFAS
- We will continue to closely follow developments in this area
- Our drinking water more than meets all existing federal and state standards for health & safety

Well 15 Background



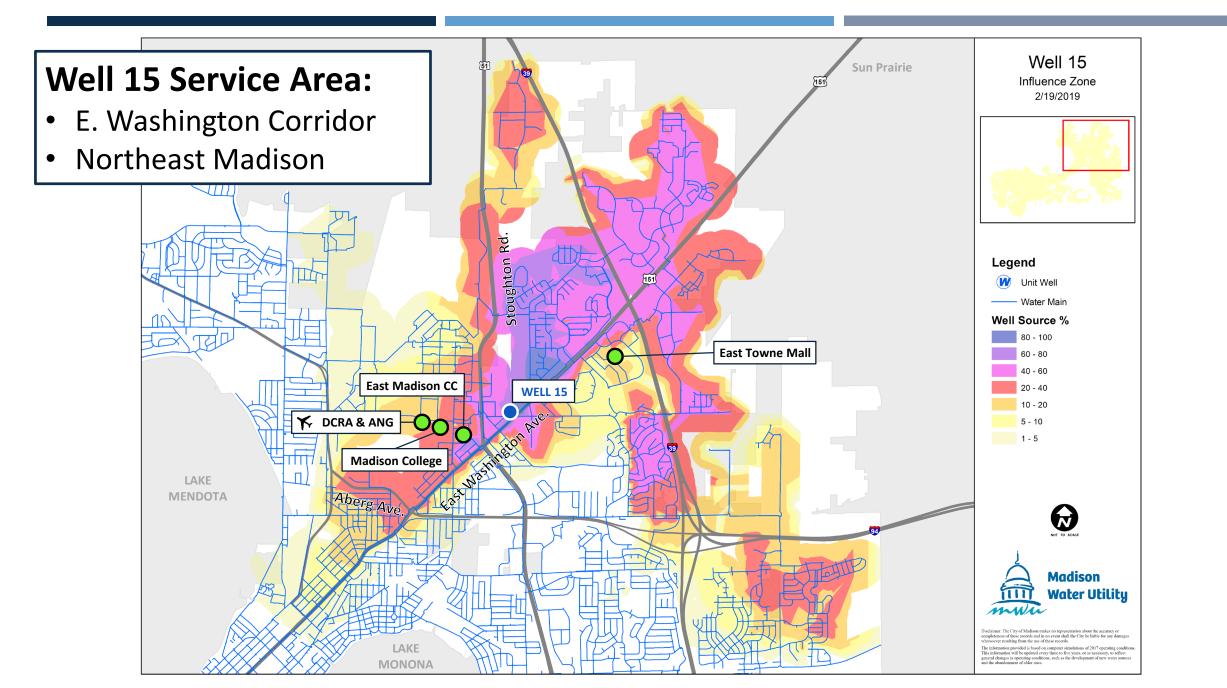
- Constructed in 1965
- Workhorse on Madison's East Side
 - Up to 1 billion gallons per year
- Air Stripper installed in 2013 (\$2.3M)
 - Removes contaminants (VOC)
- PFAS detected in 2017
- Well shut down in early 2019











What are PFAS*



- A group of human-made chemicals that enter our environment from:
 - Things we use every day, like fast food packaging, non-stick cookware, stain and water resistant carpeting and fabrics
 - Fire-fighting foam containing PFAS
- PFAS build up over time in humans, fish, and wildlife, and do not break down naturally in the environment. They are linked to harmful health effects in people, particularly pregnant people and infants.

*Per- and Polyfluoroalkyl Substances

Well 15 - PFAS Action Plan

- **2017** PFAS first detected at Well 15
- 2019 Well 15 shut down, thanks largely to <u>community advocacy</u>
- 2022 Water Utility is proactively planning a PFAS Treatment Project at Well 15:
 - In anticipation of US EPA setting drinking water standards in 2023
 - 2. To take advantage of attractive funding opportunities under the *Bipartisan Infrastructure Law*

Acknowledging Community Advocates

The Utility acknowledges the significant contributions from Community Members:

- Madison Environmental Justice (MEJO): Dr. Maria C. Powell, PhD
- Neighborhood Associations: Carpenter-Ridgeway; Eken Park / Emerson East; Greater Sandburg; and Glendale

This and future community meetings serve as forums for the Utility to consider concerns, recommendations, and priorities identified by the community served by Well 15

PFAS Health Advisory Limits



- 1. Interim Health Advisory Limits
 - PFOA 0.004 ppt (parts per trillion)
 - PFOS 0.02 ppt
- 2. Final Health Advisory Limits
 - PFBS 2,000 ppt
 - GenX 10 ppt

Health Advisory Limit (HAL)



- The HAL 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

Announcement of an HAL is a critical step undertaken by the EPA in developing a drinking water regulation

Health Advisory Limits



- 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)

Well 15 Test Results (2019)

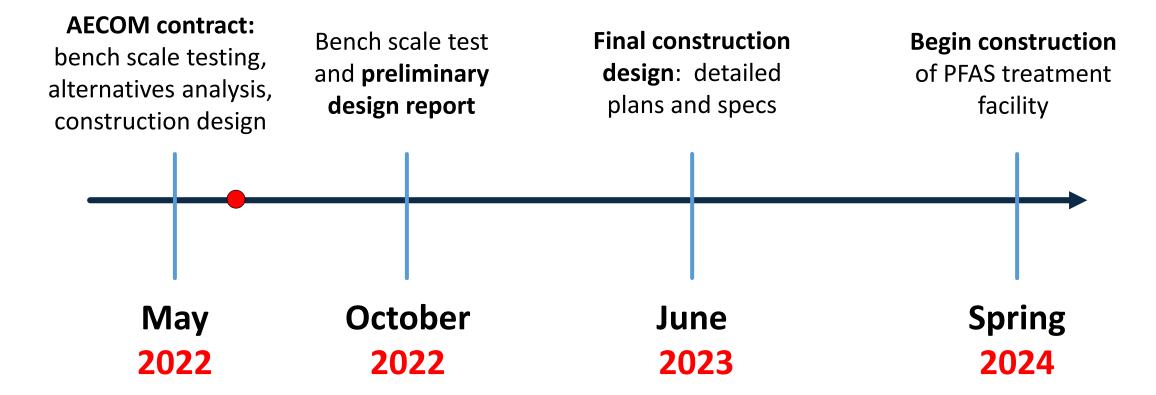
Compound	HAL (Health Advisory Limit)	MCL (Maximum Contaminant Level)	Well 15 Results
PFOA	0.004	??	6.1
PFOS	0.02	??	5.9
PFBS	2,000	??	3.4
GenX	10	??	Non-Detect

All Values are in parts per trillion

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Well 15 PFAS Treatment Project Schedule





Available Statewide Funding from WI DNR

Madison Water Utility

Туре	Annual Allocation	5-Year Allocation
Bipartisan Infrastructure Law: <i>Emerging Contaminants (PFAS)</i>	\$12.8 Million	\$64 Million
Bipartisan Infrastructure Law: Drinking Water State Revolving Fund (SRF)/Supplemental	\$30.0 Million	\$150 Million

Well 15 Project - Planned Funding Sources



	Amount	Funding Source
Grant Portion (80%)*	\$4.8 Million	BIL: Emerging Contaminants
Loan Portion (20%)*	\$1.2 Million	BIL: SRF/Supplemental
Total Estimated Project Cost	\$6.0 Million*	

*Tentative and for illustrative purposes

Recap of Next Steps



- Jul 2022: Bench Scale Testing of media & resin
- Aug 2022:Alternatives Analysis;Public Information Meeting & Listening Session #2
- **Oct 2022:** Complete **Preliminary Design Report**
- Fall 2022:US EPA expected to proposea national drinking waterregulation for PFAS

Fall 2023: US EPA expected to <u>finalize</u> a national PFAS regulation



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Questions / Concerns/ Comments?

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