



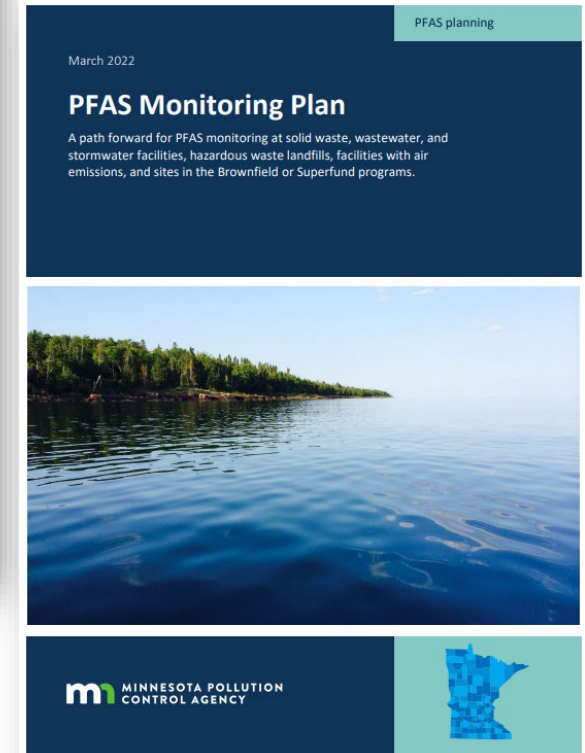
PFAS in Minnesota

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PFAS in Minnesota

- PFAS is a problem in Minnesota
- In 2020, state agencies worked together to develop the PFAS Blueprint: Prevent, manage, clean up
- MN developed a PFAS monitoring plan in 2022 to identify where PFAS is present



PFAS in Minnesota

Community water system results

Maximum PFAS Hazard Index (HI)

- PFAS levels above MCL
- ▲ PFAS levels at or below MCL
- ◻ Purchased Water Systems

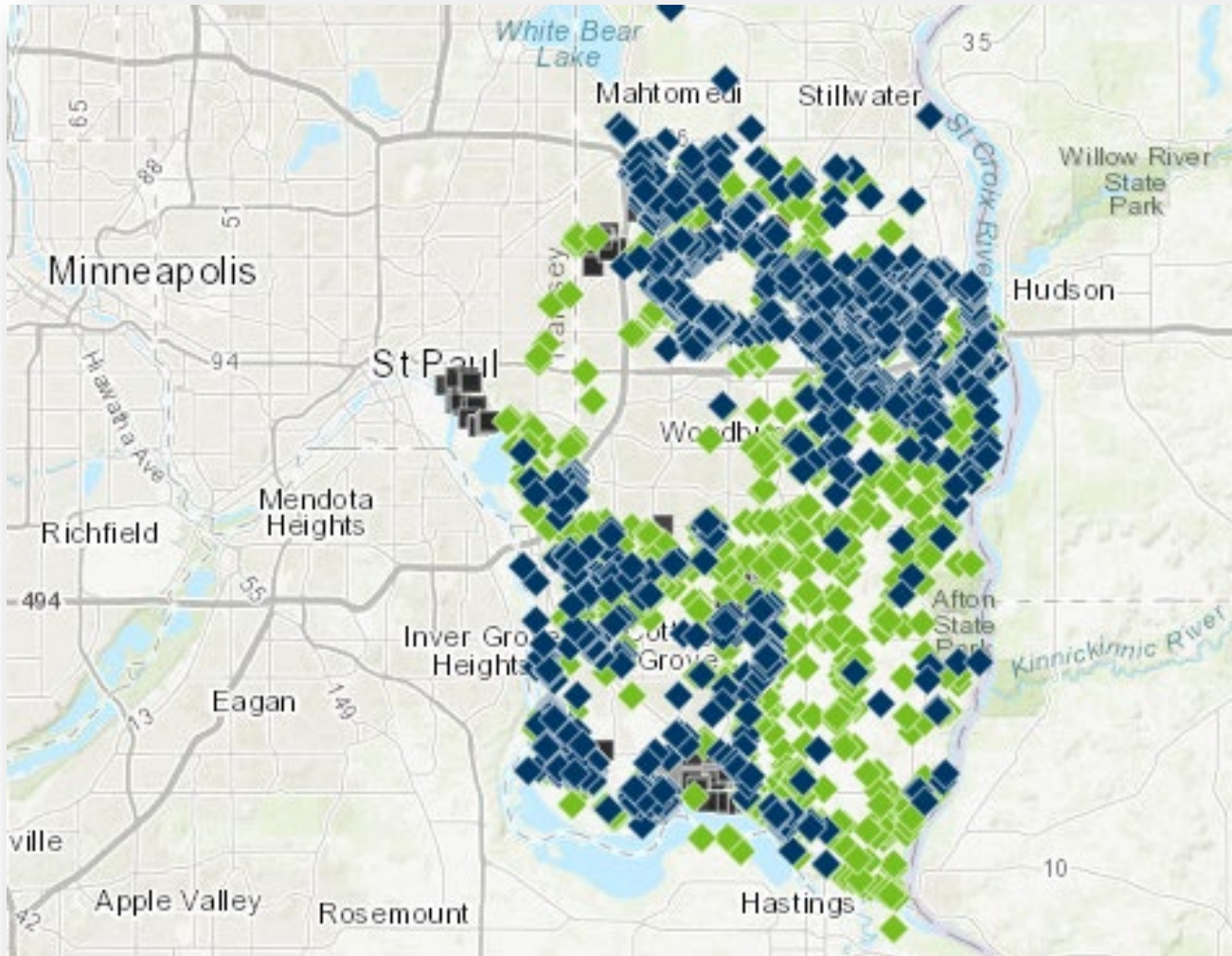
- MCL - Maximum contaminant level
- Systems marked as exceeding the MCL may have PFOS, PFOA, PFNA, PFHxS, or HFPO-DA levels above the MCL or have a hazard index greater than 1
- Source – Minnesota Department of Health (MDH)

PFAS in Minnesota

Private well results in the East Metro

- ◆ Wells with a well advisory
- ◆ Wells without an advisory
- Monitoring well

- A private well receives a well advisory when it exceeds MDH's health-based drinking water guidance for PFOS, PFOA, PFHxS, PFHxA, PFBS, or PFBA, or a combination of them



History of PFAS in Minnesota

1940s –
1960s

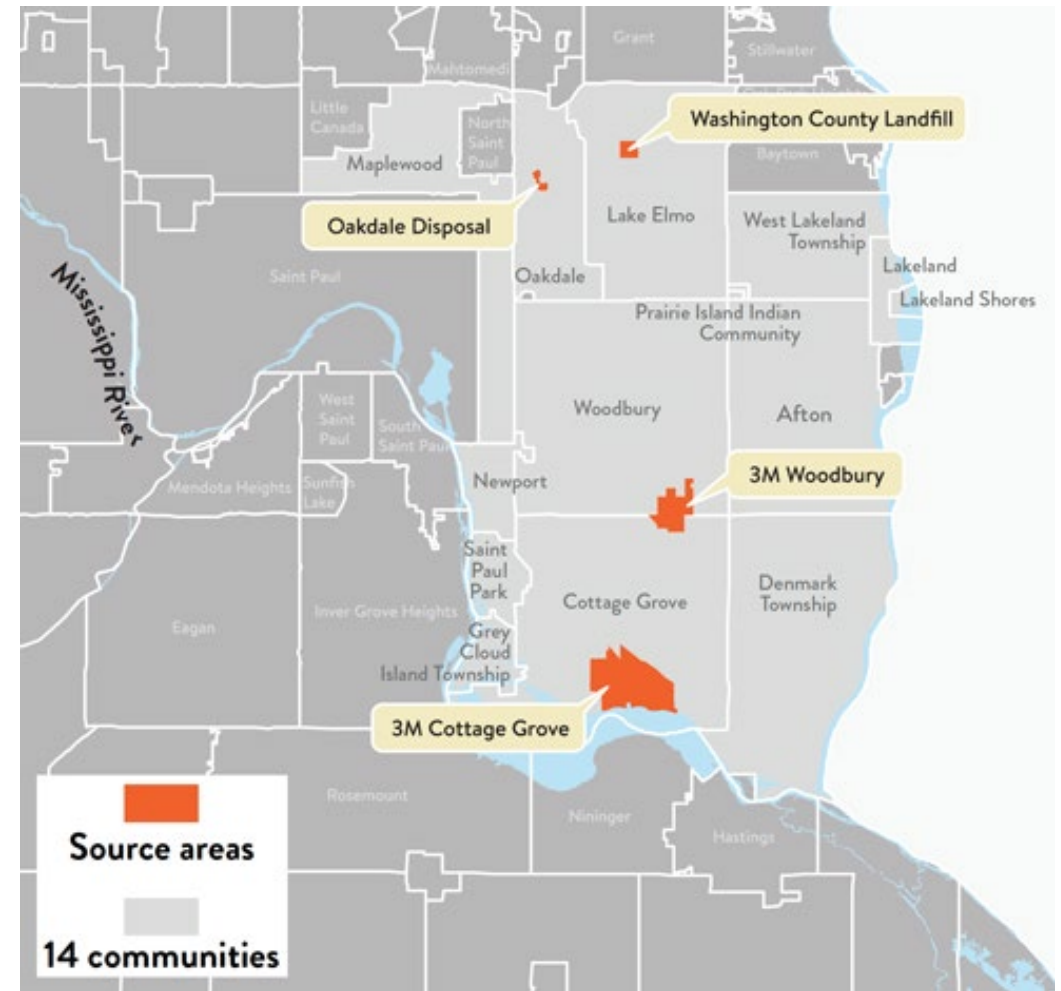
- 3M begins operations near the Twin Cities and started PFAS production

2000s

- PFAS detected in private wells in East Metro area

2018

- State of MN sues 3M for damages to drinking water and natural resources in 2010, lawsuit settled for \$850M



Private well sampling in the East Metro

- MPCA works with the Minnesota Department of Health (MDH) to analyze samples and issue a well advisory if PFAS is found above drinking water guidance
- If a well advisory is issued, bottled water is offered to residents for the short-term
- Long-term solution is to provide a granular activated carbon (GAC) whole-home filter system or connect residence to municipal water where feasible

Private well sampling numbers in the East Metro

PFAS Sampling in East Metro Area from 2003 - 2024

- There are 7,000 – 8,000 private wells in the East Metro; more than half have been sampled
- 2,028 - Number of well advisories issued for PFAS
- 1,246 - GACs installed
- 478 – Homes connected to municipal water

State contract for treating residential wells

- State of Minnesota has a contract in place (since 2020)
 - Contract specifies using GAC, reverse osmosis, and other systems
 - References NSF/ANSI Standard 53, MN plumbing codes, and other technical specifications
- Typical GAC set-up:
 - Two GAC tanks, necessary plumbing, valves, sampling ports, and flow meters
 - MPCA requires annual change-out of lead tank in East Metro area
 - GAC systems are tested periodically and have performed well

Private well treatment considerations

- There is significant need for whole-home drinking water treatment due to PFAS in MN
 - Only 2 contractors on state contract
 - Hundreds of private well advisories are issued each month and most need whole-home filter treatment vs connecting to municipal supply
- Contract expires at the end of 2025, in process of developing new technical specifications
 - Challenges with determining treatment/performance criteria
 - Desire to increase the number of installers to keep up with installs/exchanges

Thank you!

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