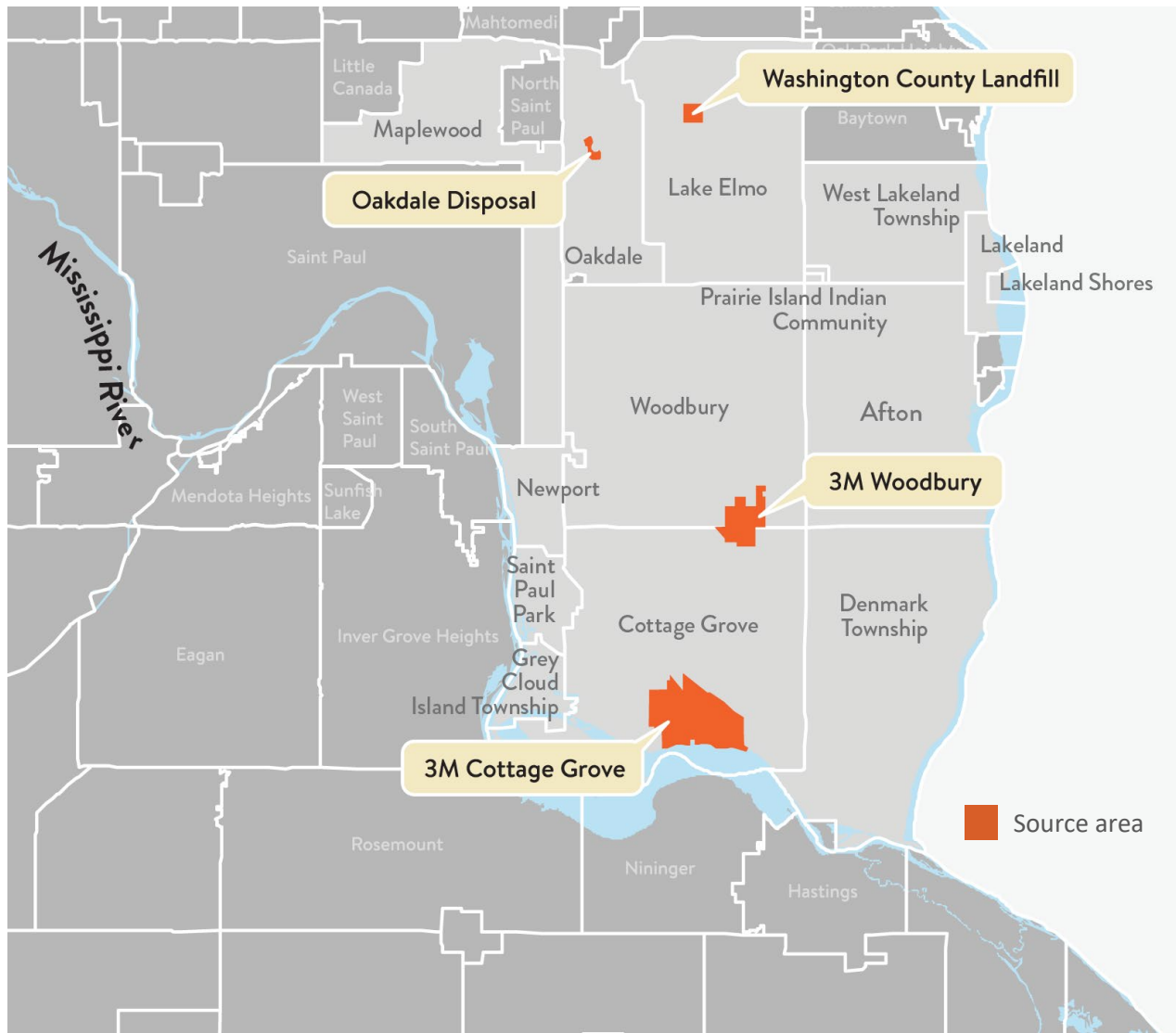


Conceptual Drinking Water Supply Plan Implementation

West Lakeland Township Board
September 11, 2023



PFAS in the East Metro



Early 2000's PFAS were found in the eastern part of the Twin Cities, including drinking water supplies


Groundwater contamination covers over 150 square miles, affecting the drinking water supplies of over 174,000 Minnesotans

2007 Consent Order with 3M for investigation and remediation at their disposal sites

2018 – State and 3M reached \$850 million NRDA settlement regarding PFAS releases in East Metro

2021 - Conceptual Drinking Water Supply Plan released

Priority 1 goals – Protect water, help communities

- 
- **Provide safe drinking water** to meet current and future needs under changing conditions, population, and health-based values
 - **Protect and improve** groundwater quality
 - **Protect and maintain** groundwater quantity
 - **Minimize** long-term cost burdens for communities

The Conceptual Plan is...



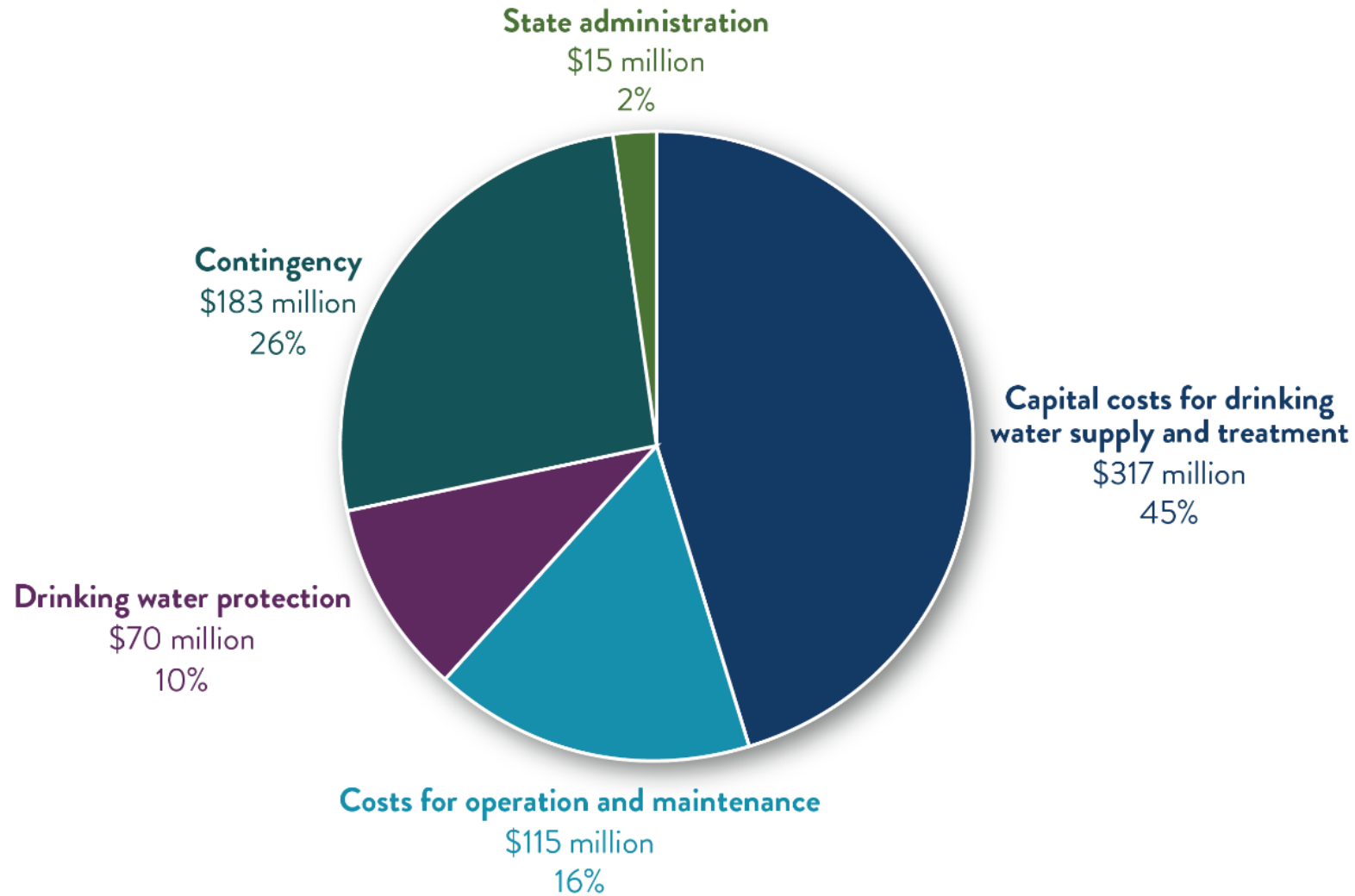
Comprehensive approach that addresses what is coming out of the tap, as well as the source

Safe and sustainable plan that protects drinking water now and into the future

Resilient plan that can adapt as we learn more about PFAS

Flexible funding for communities

Final plan



Update on MDH health-based guidance values (HBVs)

- MDH is reviewing the MDH health-based guidance values for PFOS and PFOA
 - MDH recognizes the evolving science indicates a need to lower Minnesota's current health-based guidance values to be protective of public health over time
 - Using rigorous processes to review and develop updated values for PFOA and PFOS for Minnesota's unique populations and communities
- Updated HBVs for PFOS and PFOA are anticipated near the end of 2023

U.S. EPA Draft MCLs

- On March 14, 2023, U.S. EPA released a draft rule with Maximum Contaminant Levels (MCLs) for PFOA and PFOS, and a Hazard index for GenX, PFBS, PFNA, and PFHxS
 - MCLs are the primary regulatory standards for all U.S. public water systems and factors in health risks, costs, feasibility, and laboratory detection limitations used to manage drinking water; MCL is an enforceable standard for public wells
- Draft MCLs anticipated to be finalized by early 2024

Comparison of current MDH and EPA values

Chemical	Current MDH Health-based Guidance (ppt)	Maximum Contaminant Levels (MCLs; ppt)	
PFOA	35	4.0	
PFOS	15	4.0	
PFBS	100	Hazard Index	2000
PFHxS	47		9
PFNA	-		10
GenX	-		10

Summary of Upcoming Changes

	PFAS with upcoming new guidance	Type of guidance	Additivity calculation	Estimated release of final guidance	Enforceability
EPA	PFOA PFOS GenX PFBS PFNA PFHxS	Maximum Contaminant Levels (MCLs)	<u>Hazard Index:</u> GenX PFBS PFNA PFHxS	By early 2024	MCLs: enforceable standard for public wells
MDH	PFOA PFOS	Health-Based Guidance Values (HBVs)	<u>Health Risk Index (HRI):</u> PFOA PFOS PFBS PFBA PFHxS PFHxA	2023	Not legally enforceable, MDH suggests 'recommended' actions (such as treatment)

Potential private well impacts - East Metro

- Around half of the total number of private wells in the East Metro (7,000 – 8,000) have been sampled
- Approximately 1,360 private wells need additional sampling as the reporting limit was above 4ppt for PFOA/PFOS
- Approximately 230 private wells have PFOA and/or PFOS above 4ppt and would be eligible for treatment that are not already included in the Conceptual Plan

Potential private well impacts - West Lakeland Township

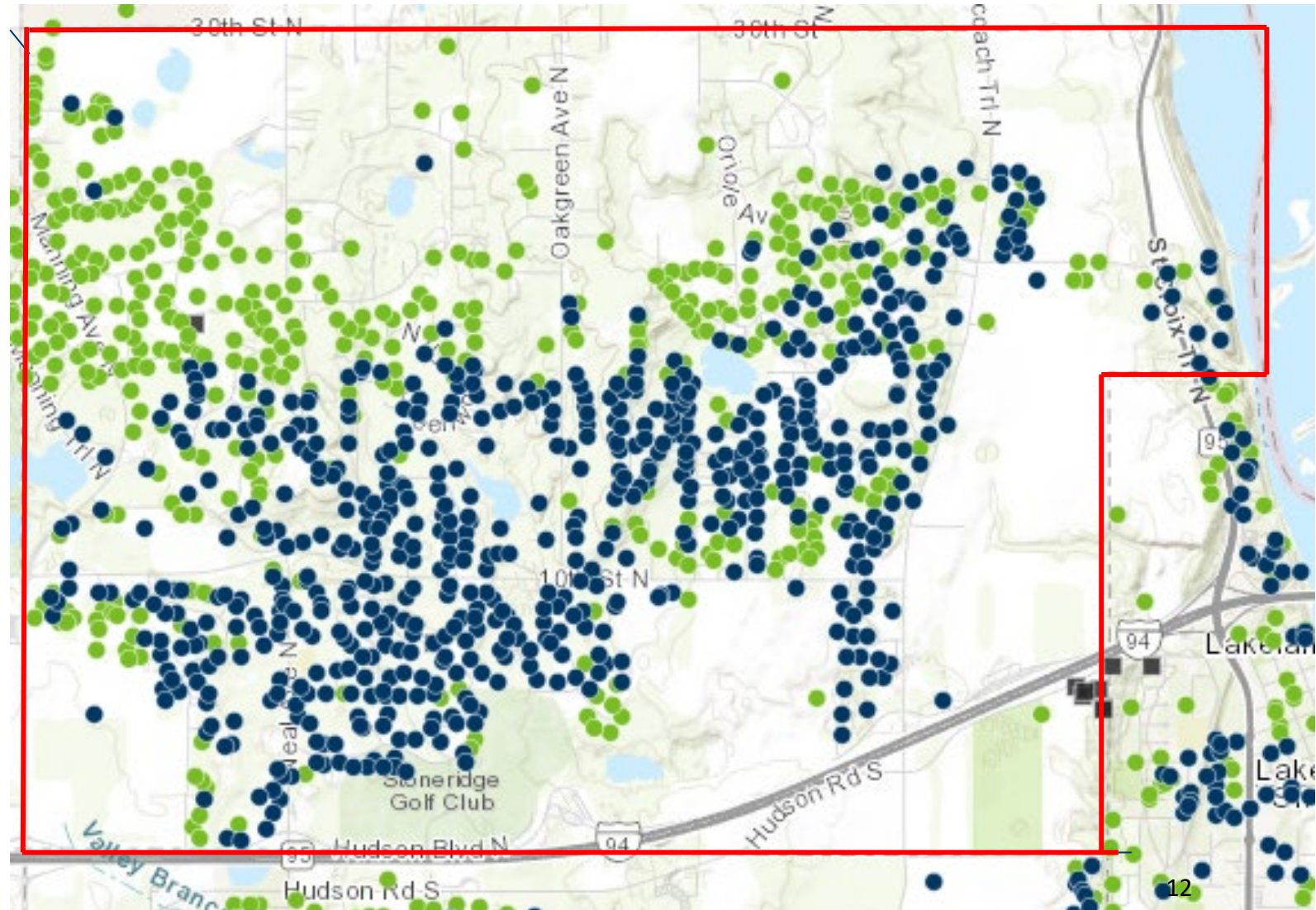
- Approximately 1,327 private drinking water wells in West Lakeland Township
- 75% of private wells have been sampled
 - The State has made efforts to contact the remaining 25% of private well owners; they either did not respond or declined sampling
- 639 well advisories have been issued, and 630 have POETSs installed
 - POETSs installation is pending on the 9 homes

Private well sampling in West Lakeland Township

Legend

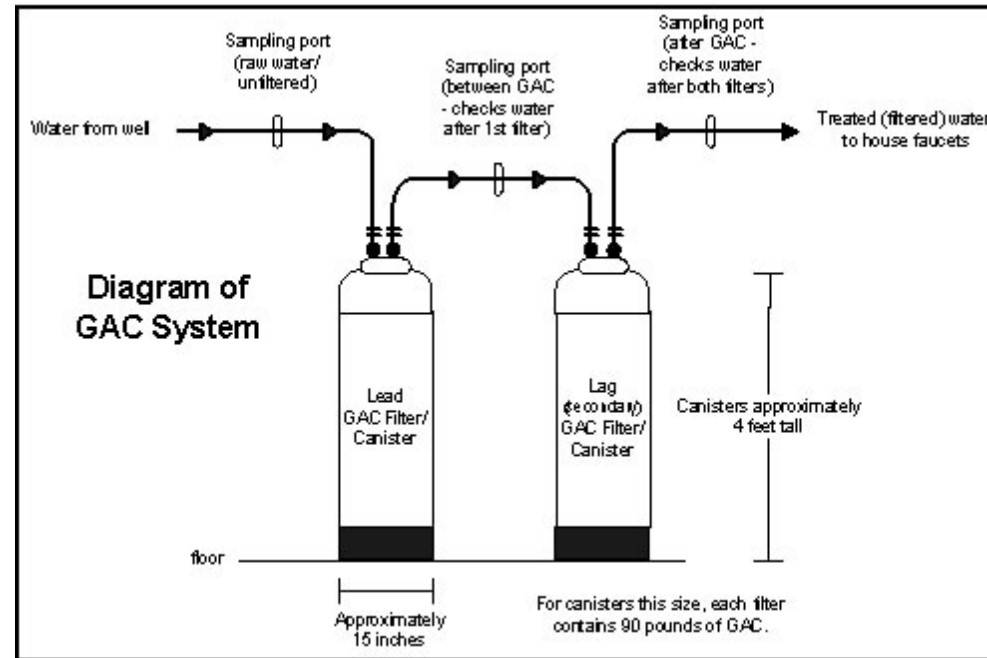
- Wells with a well advisory
- Wells sampled, no well advisory (no or low PFAS)
- West Lakeland Township outline

Link to website about well sampling in the East Metro: [Well sampling in the east metro area | Minnesota Pollution Control Agency \(state.mn.us\)](https://www.mn.gov/2023/09/11/well-sampling-in-the-east-metro-area)



Private well sampling in West Lakeland Township – treatment

- POETSs use granular activated carbon (GAC) technology
- GAC material is changed out on an annual basis
- GAC will still be an effective treatment technology even with new lower health values; annual change-out timeframe remains effective based on testing results



Private well sampling in West Lakeland Township – next steps

- All private wells in WLT that do not already have treatment (POETSs) will be sampled or resampled
 - This effort will take time; home owners may reach out to MPCA to request sampling through the online sample request form: [Groundwater Sampling Request \(state.mn.us\)](https://www.state.mn.us/mPCA/groundwater/sampling-request)
- Co-Trustees will continue to provide POETSs based on current MDH values; once the new HBVs are out and MCLs are finalized, POETSs will be offered to homes with well results that exceed those new values
- Homes that exceed HBVs or MCLs will be provided with bottled water until a POETS is installed

- 3M Settlement webpage: [Front page | Minnesota 3M PFAS Settlement \(state.mn.us\)](#)
- Online sample request form: [Groundwater Sampling Request \(state.mn.us\)](#)
- Conceptual Plan Annual review: [Minnesota 3M PFAS Settlement Conceptual Drinking Water Supply Plan Annual Review, 2021–2022 \(state.mn.us\)](#)
- Materials for past work group meetings: [Priority 1 Government and 3M Working Group | Minnesota 3M PFAS Settlement \(state.mn.us\)](#)

Questions/Discussion

Andri Dahlmeier | 3M Settlement Coordinator

Stay connected, sign up to receive email updates :

[East Metro | 3M PFAS contamination | Minnesota Pollution Control Agency \(state.mn.us\)](#)

Email: pfasinfo.pca@state.mn.us