



# Info Item: 2050 Water Resources Policy Plan Update

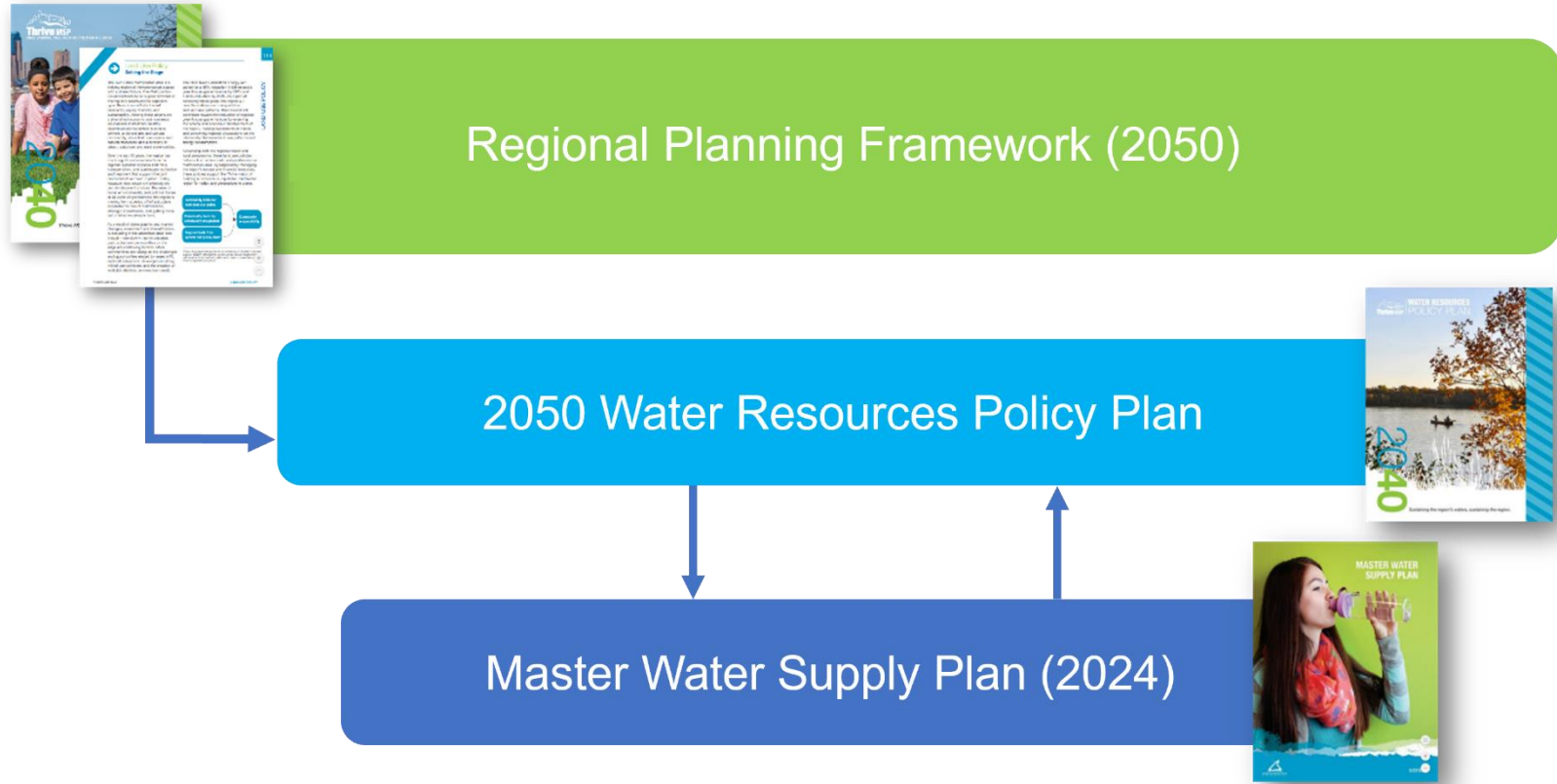


Environment Committee: 28 June 2022

Jen Kostrzewski



# Regional Water Planning Framework



Sets the framework for our region, including land use policy and other cross-divisional issues.

Provides a framework for integrative water planning (wastewater, water supply, and surface water) and the wastewater system plan.

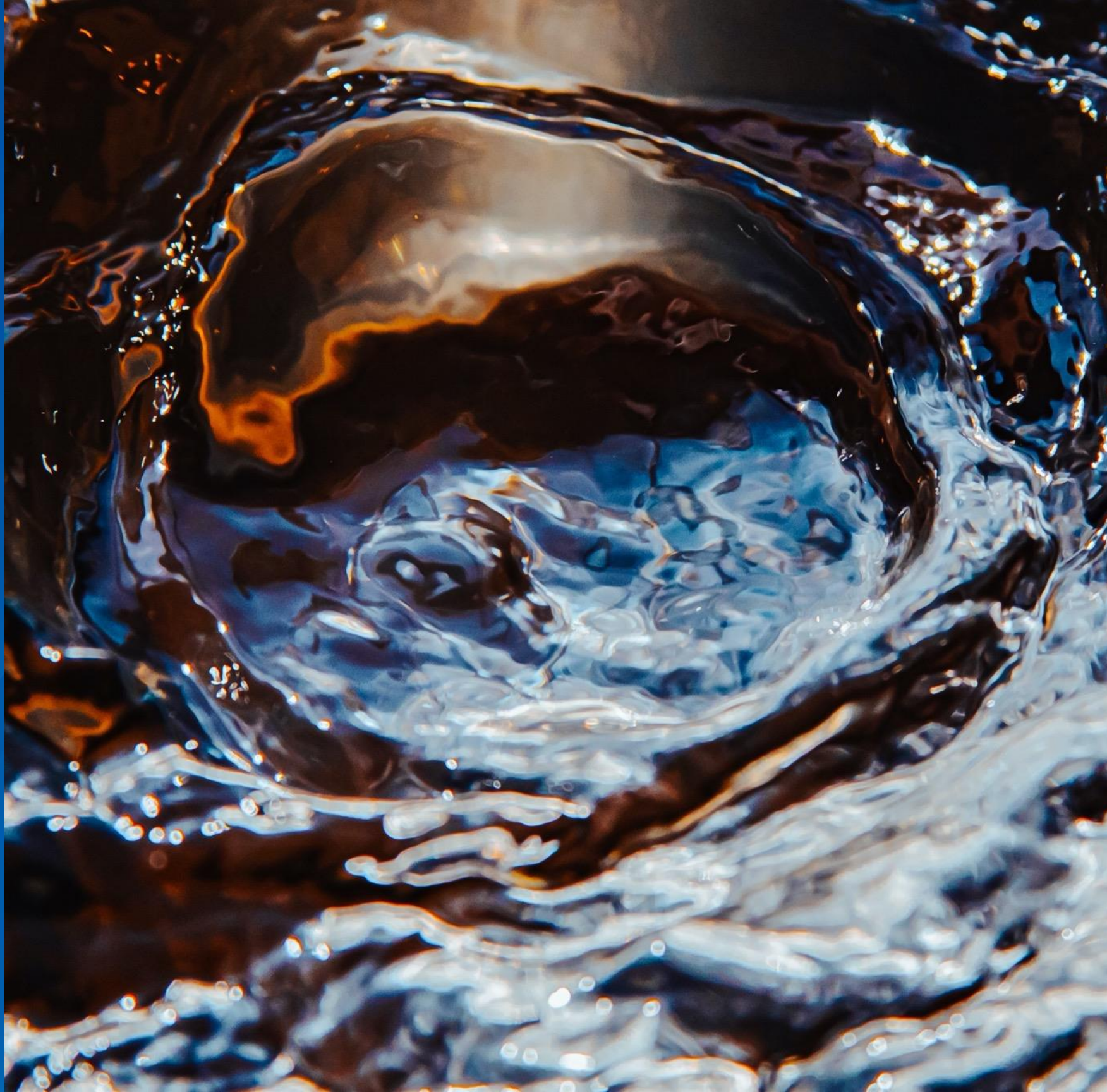
Provides water supply-related considerations for developing regional, subregional, and local plans and supporting programs.

# Regional 10-Year Planning Cycle





# Water Advisory Group



# Water Advisory Group - Experts

## Wastewater / Water Supply Experts

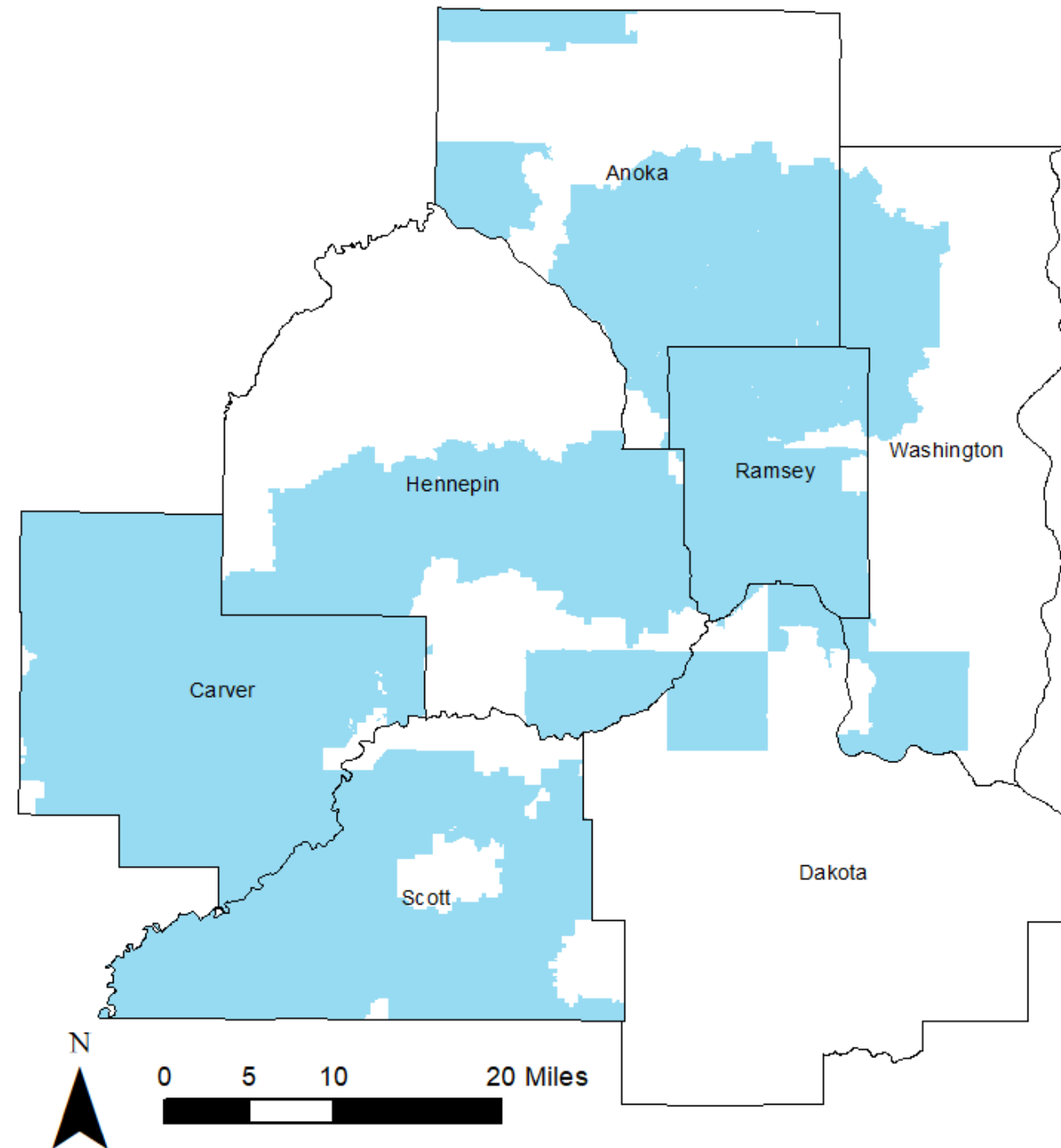
- Scott Anderson (Bloomington)
- Bruce Elder (St. Paul)
- Charles Howley (Chanhassen)
- Jennifer Levitt (Cottage Grove)
- Richard McCoy (Robbinsdale)
- Bryan Dodds (Minneapolis)
- Bryan Bear (Hugo)
- Mark Maloney (Shoreview)
- Russ Matthys (Eagan)
- Pat Shea (SPRWS)
- Bruce Westby (Ramsey)
- Andrew Brotzler (Prior Lake)
- Paul Carpenter (St. Francis)

## Watershed Experts

- Phil Belfiori (Vadnais Lake WMO)
- Laura Jester (Bassett Creek WMC)
- Tim Kelly (Coon Creek WD)
- Paul Moline (Carver County WMO)
- Vanessa Strong (Scott County WMO)
- Nick Tomczik (Rice Creek WD)
- James Wisker (Minnehaha Creek WD)



# Water Resources Policy Plan Advisory Group Representation



# Water Advisory Group Staff Representation



## Council Staff

- Sam Paske (Executive Sponsor)
- Judy Sventek (Group Co-Lead)
- Kyle Colvin (Group Co-Lead)
- Ali Elhassan (Group Co-Lead)
- Jen Kostrzewski (Project Manager)
- Tessa Wegenke (Administrative Support)
- Other staff as needed

# Dates, Topics of Meetings

October 4, 2021: Water Advisory Group Kickoff Meeting

December 10, 2021: Draft New Issue Areas

March 8, 2022: Reviewed All Draft Policy Areas; Identified Gaps

Fall 2022: Whitepaper Content & Water Resource Policy Plan Outreach



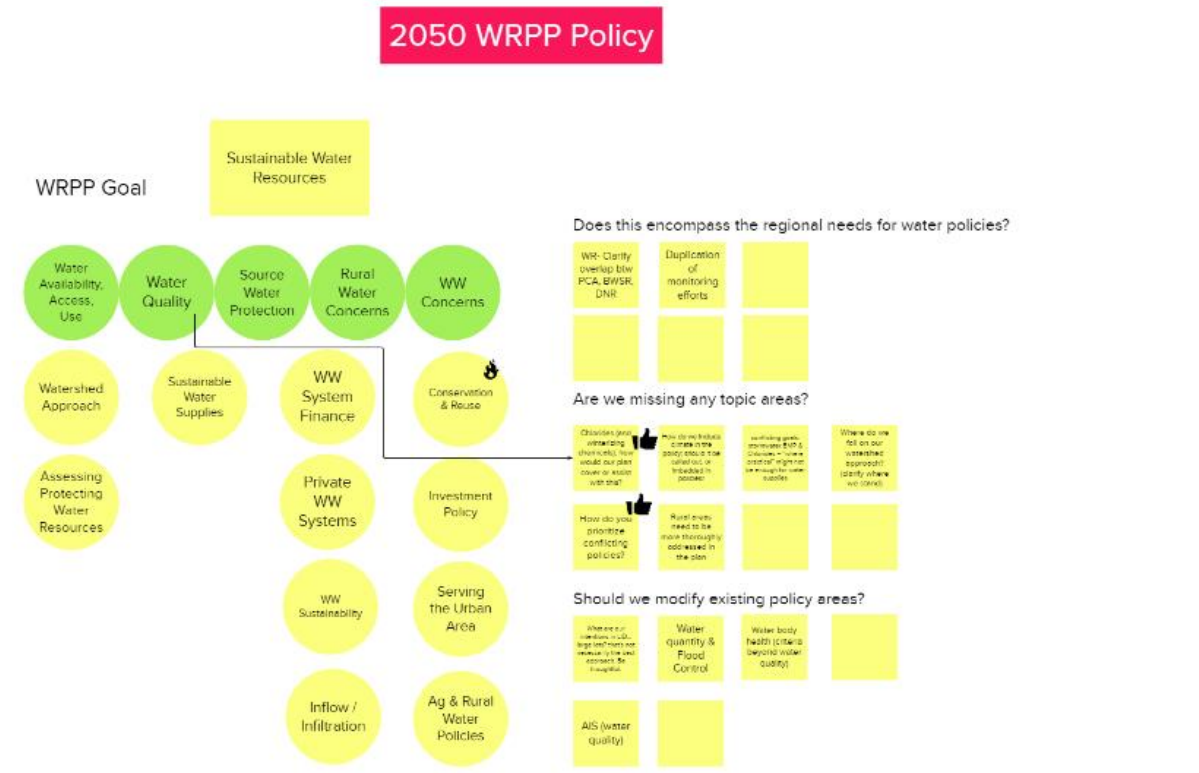
# Example outputs/meeting content

FUTURE VISIONING

Please provide adjectives to describe the waters of the metro in 2050.



# Example outputs/meeting content (continued)



## 2050 WRPP Issues & Challenges

### Issue Area: Water Quality

**GOAL:** Ensure clean, usable water – which is water for life and regional prosperity – now and for future generations. Clean water to support safe and reliable drinking water sources, recreation, health, equity, life, and recreation.

**CHALLENGES:**

Chloride	Urban runoff	Deforestation	Water quality
Nitrate	Urban runoff	Urban runoff	Water quality
Phosphorus	Urban runoff	Urban runoff	Water quality
PFOS/PFAS	Urban runoff	Urban runoff	Water quality
Microplastics	Urban runoff	Urban runoff	Water quality
Pharmaceuticals	Urban runoff	Urban runoff	Water quality
Climate Change	Urban runoff	Urban runoff	Water quality
Turbidity/Sediment	Urban runoff	Urban runoff	Water quality
Water body health	Urban runoff	Urban runoff	Water quality

### Issue Area: Wastewater Challenges

**GOAL:** Ensure wastewater services protect human health and the environment. The region needs wastewater collection and treatment services to protect public health, safety, and the environment. Infrastructure and services need to accommodate future growth, protect economic prosperity, and maintain affordable rates and quality service to the region.

**CHALLENGES:**

Regulatory Policy	Urban runoff	Urban runoff	Water quality
Private Inflow / Infiltration	Urban runoff	Urban runoff	Water quality
Vector Waste Disposal	Urban runoff	Urban runoff	Water quality
Aging Infrastructure	Urban runoff	Urban runoff	Water quality
Chlorides	Urban runoff	Urban runoff	Water quality
Regulatory Requirements	Urban runoff	Urban runoff	Water quality
Growth Patterns	Urban runoff	Urban runoff	Water quality
Climate Change	Urban runoff	Urban runoff	Water quality
Emerging Contaminants	Urban runoff	Urban runoff	Water quality
Liquid Waste Receiving	Urban runoff	Urban runoff	Water quality

### Issue Area: Rural Water Issues

**GOAL:** Meet the water needs of rural communities – now and for future generations. Water challenges in rural areas will provide the agricultural economy, rural services, and rural residential lifestyles.

**CHALLENGES:**

Private Wells	Urban runoff	Urban runoff	Water quality
Rural Water Treatment Systems	Urban runoff	Urban runoff	Water quality
Community Wastewater	Urban runoff	Urban runoff	Water quality
Planned Dewater	Urban runoff	Urban runoff	Water quality
Climate Change	Urban runoff	Urban runoff	Water quality
Reservoirs	Urban runoff	Urban runoff	Water quality
Nutrients	Urban runoff	Urban runoff	Water quality
Community Water Supply	Urban runoff	Urban runoff	Water quality

### Issue Area: Water Availability, Access, Use

**GOAL:** Provide fair water resources and infrastructure use sustainable and resilient to meet the needs of present and future generations. Water use is planned to maintain sustainable surface water flows and aquifer levels, and protect water quality. Water use includes low impact, water access and demands are met in a way that limit negative outcomes to growing water and wastewater resources, as well as ensuring protecting the water infrastructure, distribution, and treatment systems.

**CHALLENGES:**

Groundwater	Urban runoff	Urban runoff	Water quality
Surface Water Interactions	Urban runoff	Urban runoff	Water quality
GW Droughtdown	Urban runoff	Urban runoff	Water quality
Contamination	Urban runoff	Urban runoff	Water quality
Infrastructure Costs	Urban runoff	Urban runoff	Water quality
Water Value Judgments	Urban runoff	Urban runoff	Water quality
Equitable Access	Urban runoff	Urban runoff	Water quality
Population Growth	Urban runoff	Urban runoff	Water quality
Planned Dewater	Urban runoff	Urban runoff	Water quality
Climate Change	Urban runoff	Urban runoff	Water quality
Agency Incentive Ability	Urban runoff	Urban runoff	Water quality
Water Prior	Urban runoff	Urban runoff	Water quality

### Issue Area: Source Water Protection & Vulnerable Areas

**GOAL:** Protect areas of land that contribute to water supply to ensure safe, sustainable, and sufficient drinking water for the region. Public water supplies and low pressure and developers, watershed management organizations, local government, and agencies, and others need to improve understanding and collaboration to protect water supply sources, particularly where source water protection areas extend beyond any one jurisdiction's boundaries.

**CHALLENGES:**

Overlapping Jurisdictions	Urban runoff	Urban runoff	Water quality
Contaminant Mitigation/Reduction	Urban runoff	Urban runoff	Water quality
Legacy Contaminants	Urban runoff	Urban runoff	Water quality
Emerging Contaminants	Urban runoff	Urban runoff	Water quality
Security (physical & cyber)	Urban runoff	Urban runoff	Water quality
Infrastructure	Urban runoff	Urban runoff	Water quality
Climate Change	Urban runoff	Urban runoff	Water quality

### Other Issue Areas

- Reuse: all types of reuse – gray water and stormwater
- Climate Change: Flooding concerns surpassed not a large story
- Agency coordination across all areas

### Who else should we engage?

- Other state agencies
- Neighboring towns

**Plus (What you liked)**

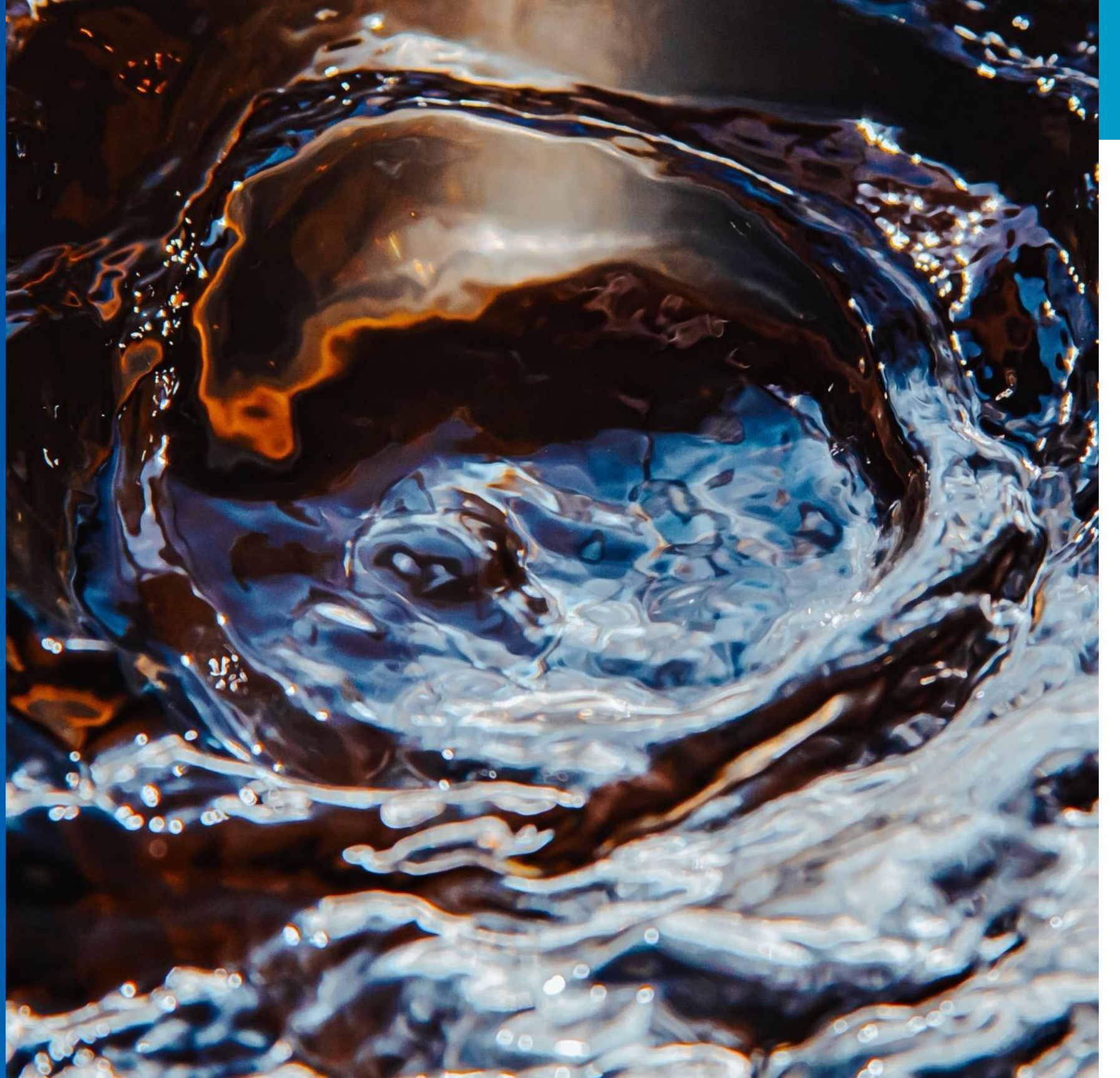
Jen rec'd!  
Like the platform

**Delta (What you wished were different)**

- Chat visible to all participants (some team members and non-team members did not have access)
- Allocated time in breakout sessions to discuss as subgroups

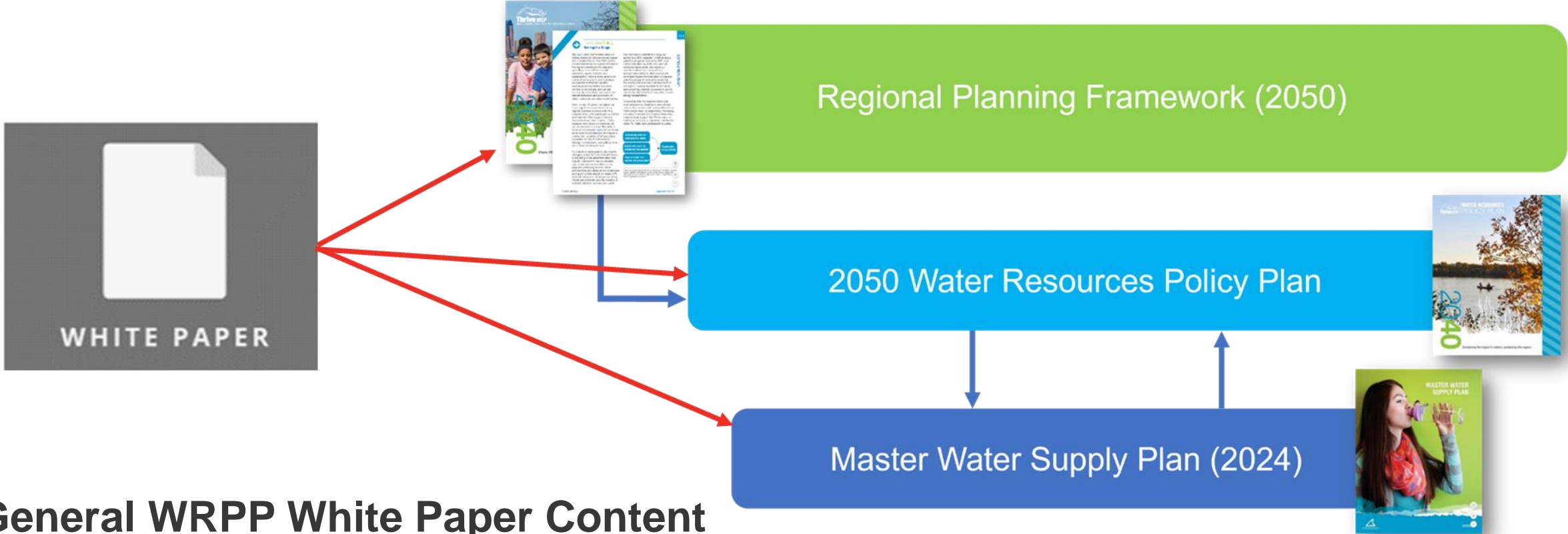


# White Papers





# Definition & Use



## General WRPP White Paper Content

- 1. Background on issue
- 2. Council's role
- 3. Connections with current policy
- 4. Policy Recommendations



# White Paper Milestones

March -  
May

## 1<sup>st</sup> Round of White Papers

- Water Quality
- Wastewater Concerns
- Water + Climate

June -  
August

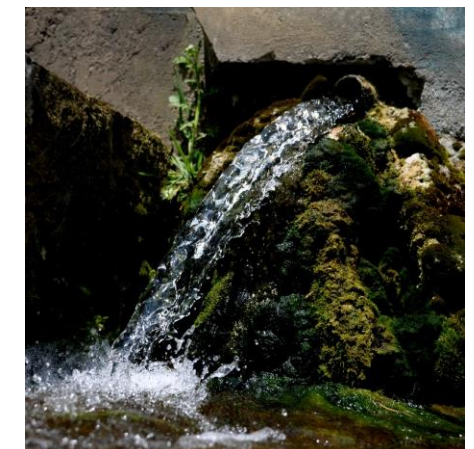
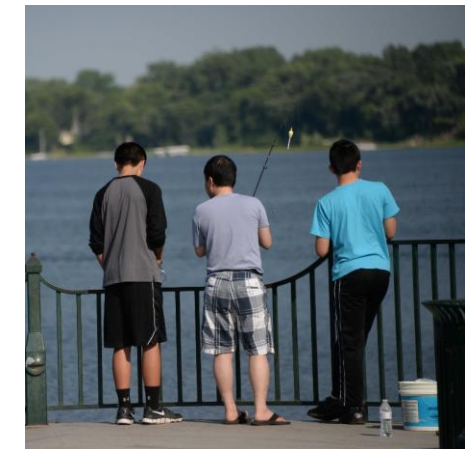
## 2<sup>nd</sup> Round of White Papers

- Source Water Protection & Vulnerable Areas
- Water Reuse

September  
- December

## 3<sup>rd</sup> Round of White Papers

- Water Availability
- Rural Water Concerns





# Water Quality

- Watershed Approach
- Contaminant Investigation Process
- Highlighted Contaminants:
  - Chloride
  - Nutrients
  - Per- and Polyfluoroalkyl Substances (PFAS)
  - Manganese, Trichloroethylene (TCE), Dioxane
- Climate Change
- Future Challenges





# Water + Climate

- Identify Regional Climate Risk
- Highlight impacts on ES (planning and operations) and local governments
- Focus on Adaptation and Mitigation Strategies





# Wastewater Issues

- Vector Waste Disposal
- Liquid Waste Receiving
- Aging Infrastructure
- Existing Community Wastewater (WW) Systems
- Regional System Expansion
- Public & Private Inflow & Infiltration (I/I)
- Future Challenges





# Water Reuse

- Impact of Reuse on Water Supplies
- Stormwater Reuse
- Wastewater Reuse (ES facilities)
- Wastewater Reuse (External)





# Source Water Protection & Vulnerable Areas

- Land Use & Water Protection
- Overlapping Jurisdictions
- Water Contamination
- Emergency Response





# Rural Water Concerns

- Community Designations & Densities
- Community Challenges
  - Private Wells
  - Private Subsurface sewage treatment systems (SSTS)
  - Community Water Utilities
- Environmental Challenges
  - Wetland Protection
  - Water Storage & Drainage
  - Contamination
- Future Challenges





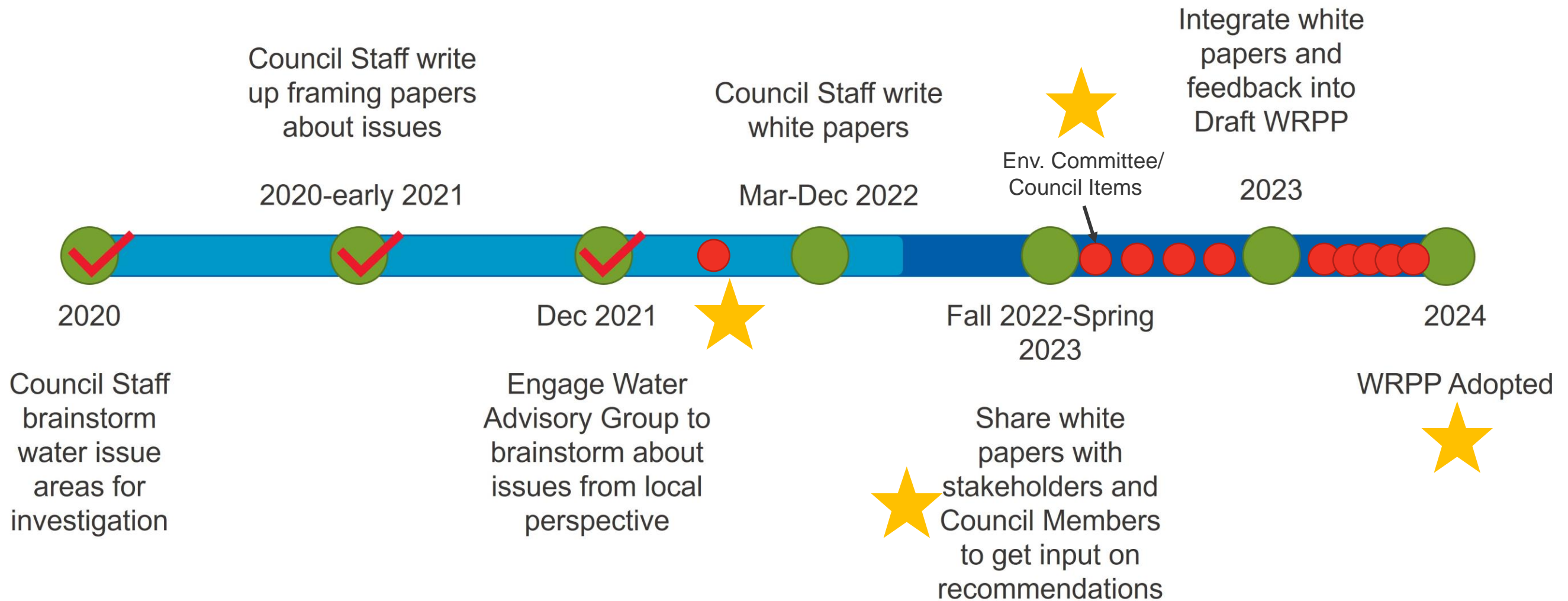
# Water Availability

- Water Access Challenges
  - Deep groundwater supplies
  - Public Access to Surface Waters
- Water Use Challenges
  - Contamination
  - Contact Concerns
- Groundwater/Surface Water Interaction





# Water Resources Policy Plan Timeline





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Metropolitan Council Environmental Services

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