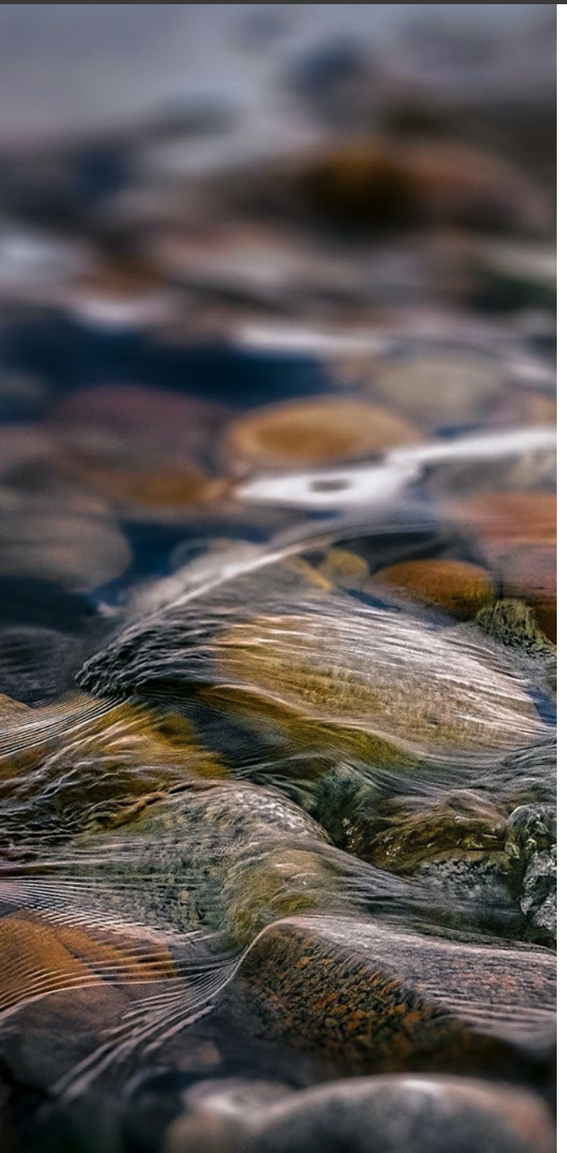
Scoping Projects to Implement MWSP and Support Local Planning – Survey Results

METROPOLITAN COUNCIL

Metro Area Water Supply Policy and Technical Advisory Committees (MAWSAC & TAC) | December 11, 2024 | Greg Johnson

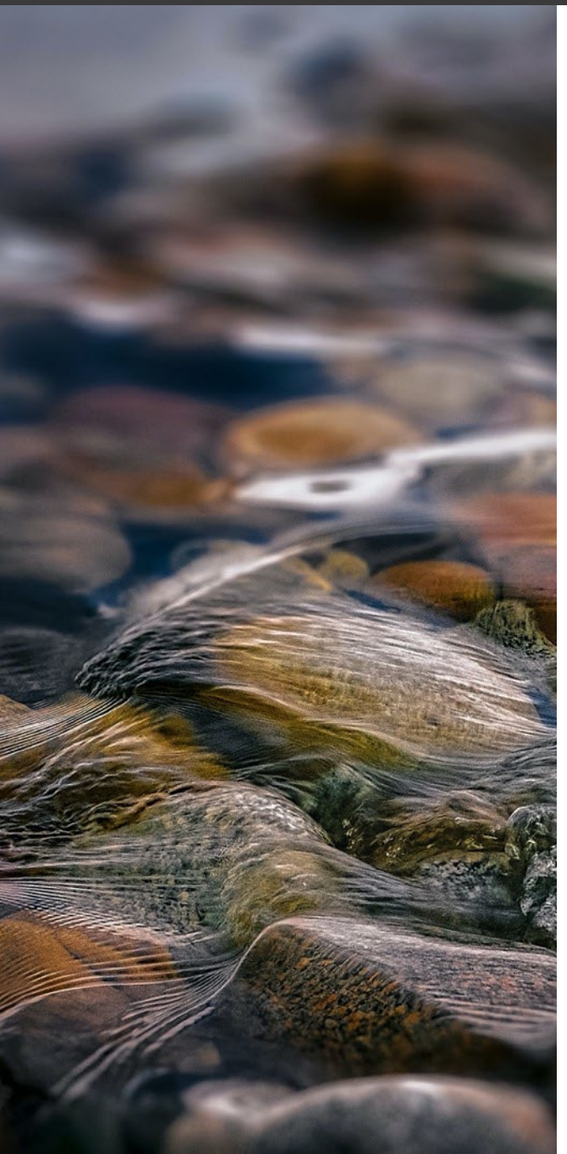
Background



Complete a survey to help scope regional projects to implement the Metro Area Water Supply Plan

- Consider the Metro Area Water Supply Plan
- Consider some key milestones
- Consider Met Council resources
- Review and share input on potential projects being proposed

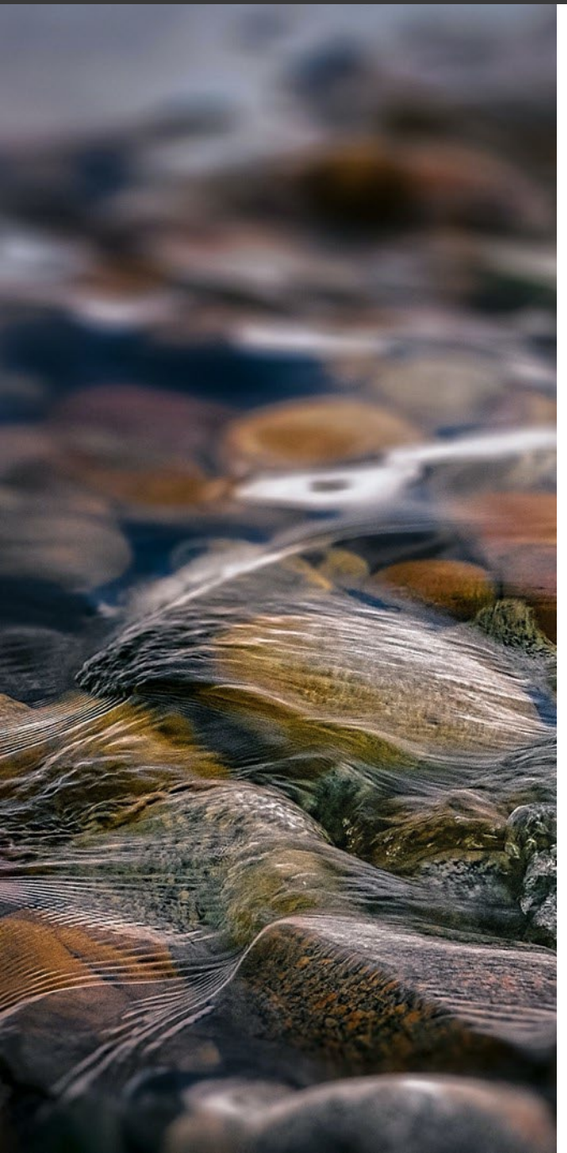
Metro Area Water Supply Plan Table 3.2



Regional actions that Met Council commits to support

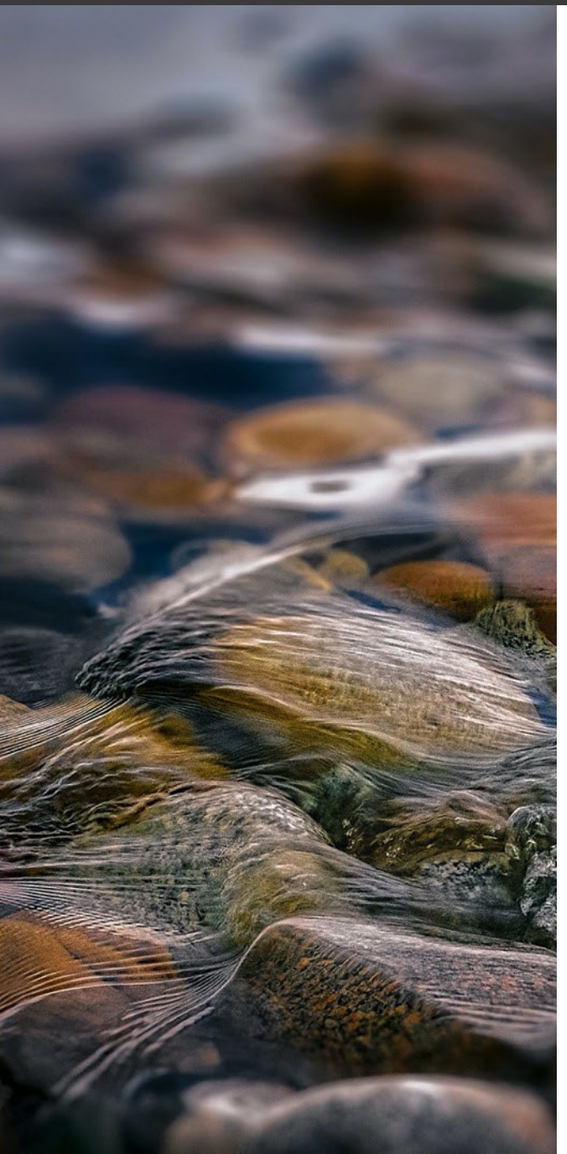
- Collaboration and capacity building
- System assessment
- Mitigation measure evaluation
- Planning and implementation

Survey questions



1. Does this project give your organization useful information?
2. Is this important for the success of the Metro Area Water Supply Plan?
3. When would it be most useful to have this information?
4. Please share references and contact details for past projects and studies that could be referenced for this new project or study.

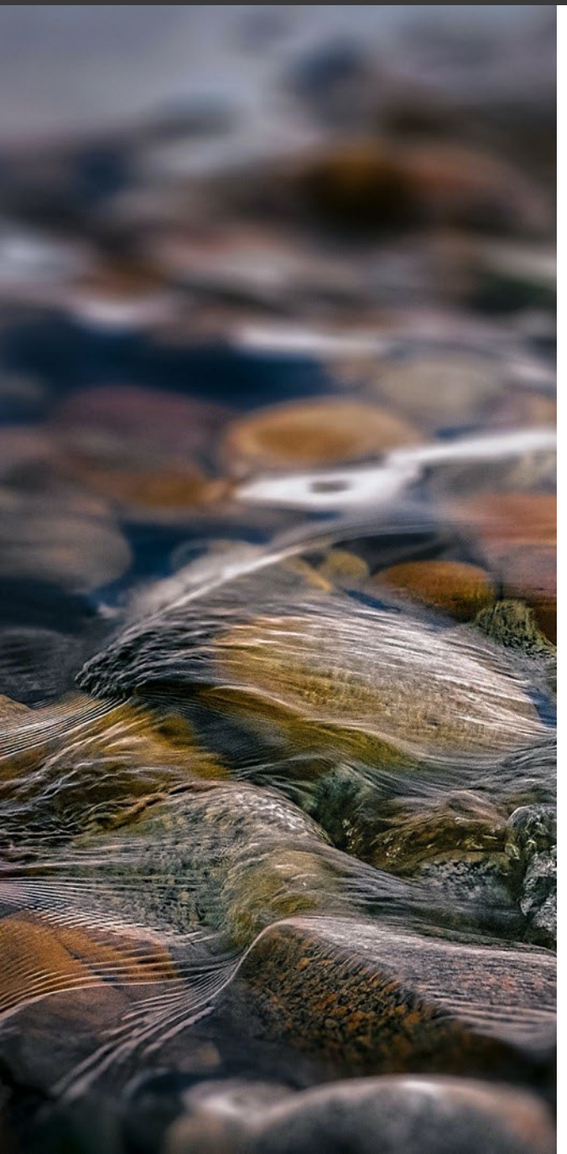
Key milestones (1/2)



Projects may be more useful if done at a certain time

2025	Communities will receive system statements with information to update their local comprehensive plans
Feb. 2027	MAWSAC will report to the legislature about our water supply work (statute)
Dec. 2028	Deadline for communities to submit updated comprehensive plans and DNR Water Supply Plans to Met Council
2030	Met Council will report to the legislature about our water supply work, and the U.S. Census will trigger the process to update regional forecasts and plans (statute)

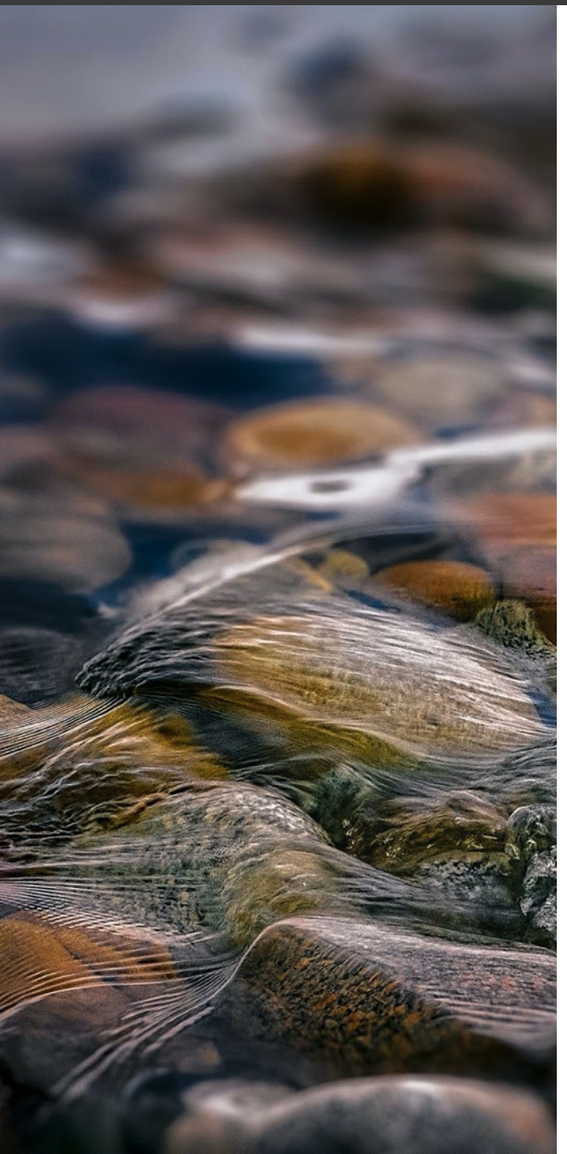
Key milestones (2/2)



Projects may be more useful if done at a certain time

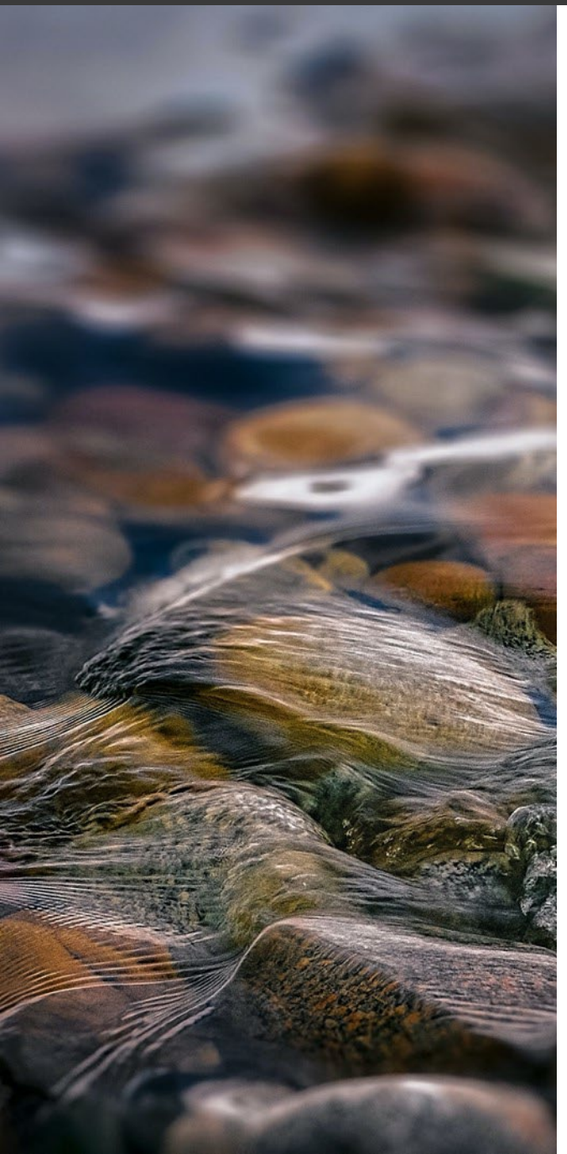
2032-2033	Wrap up policy research cycle to inform plan updates
2034	Clean Water Fund expires, and stakeholder engagement needed to update regional policies and plans
2035	MAWSAC will approve the updated Metro Area Water Supply Plan

Survey results - Collaboration and capacity building potential projects (1/2)



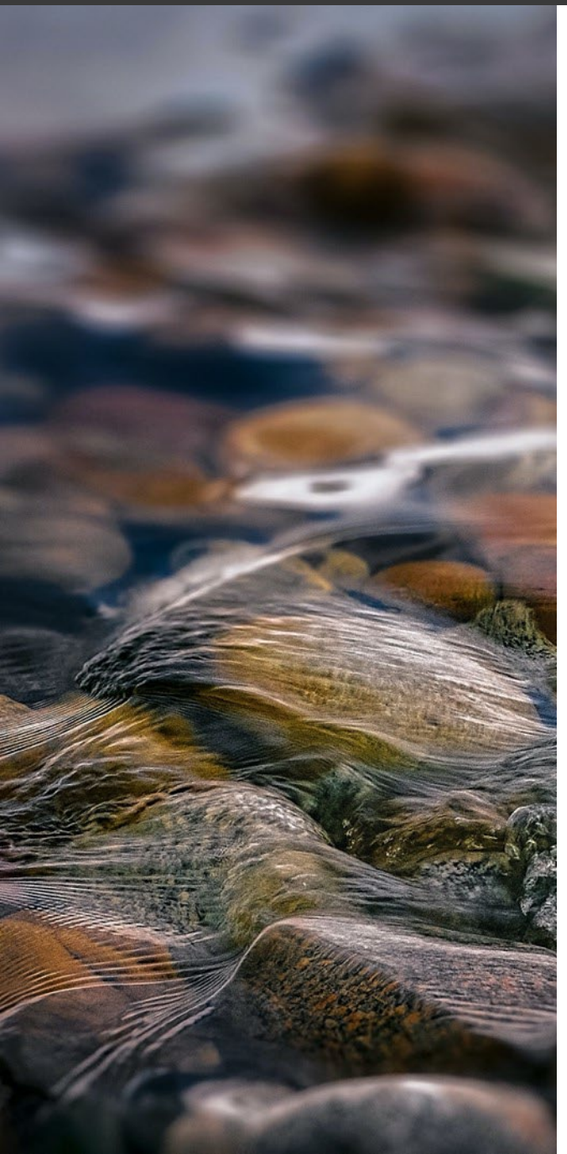
1. Infrastructure Water Supply Needs - preferably done around 2025-2027
2. Groundwater Elevations Database Coordination with DNR - preferable done around 2025-2027
3. Treatment Technologies and Costs to Address Multiple Contaminants - anytime with a slight preference for 2025-2027
4. Regional Assessment of Aging Infrastructure - preferable done around 2025-2027
5. Water and Wastewater Reuse Potential - anytime with a slight preference for 2025-2027

Survey results - Collaboration and capacity building potential projects (2/2)



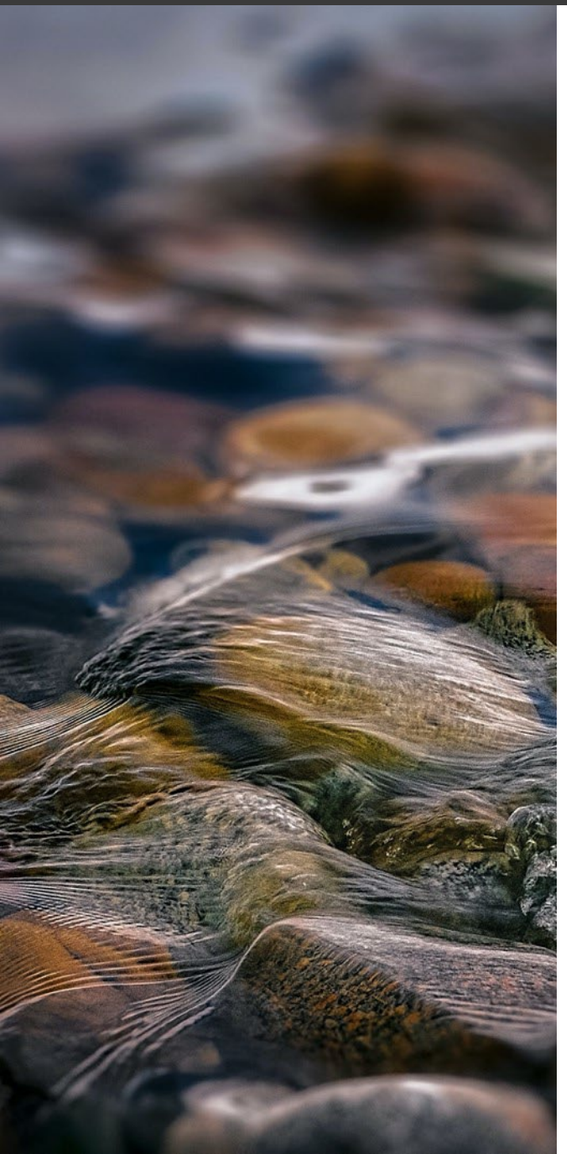
6. Framework for Coordinated Mult-Community Wellhead Protection and Land Use Planning - anytime with a slight preference for 2028-2030
7. One-Water Potential and Benefits - anytime with a slight preference for 2031-2033
8. Nitrate Study - anytime with a slight preference for 2034-2036
9. Partnering with Multi-Community Water Supply Emergency Response Exercises – anytime with a slight preference for 2034-2036

Survey results - System assessment potential projects (1/2)



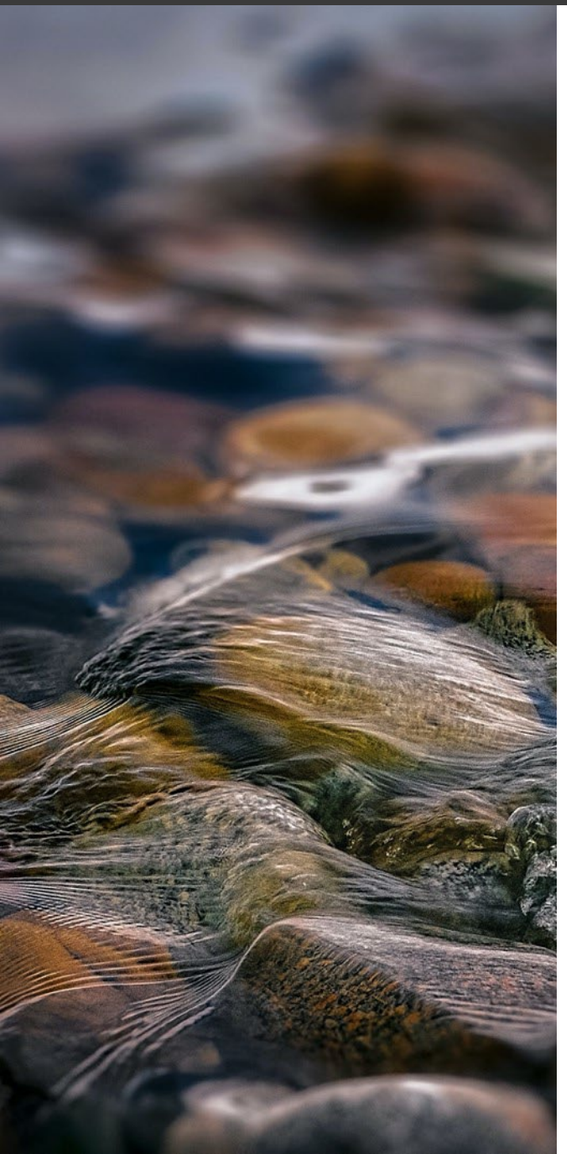
1. Groundwater-Surface Water Interaction Effects and Impacts – anytime with a slight preference for 2028-2030
2. Regional Groundwater Model Update – Water Balance – preferably done around 2025-2027
3. Long-term Analysis: Groundwater Capacity, Resource Limitation, Vulnerability, and Growth – anytime with a slight preference for 2028-2030
4. Long-Term Effects of Climate Change on Water Supplies – anytime with a slight preference for 2025-2027

Survey results - System assessment potential projects (2/2)



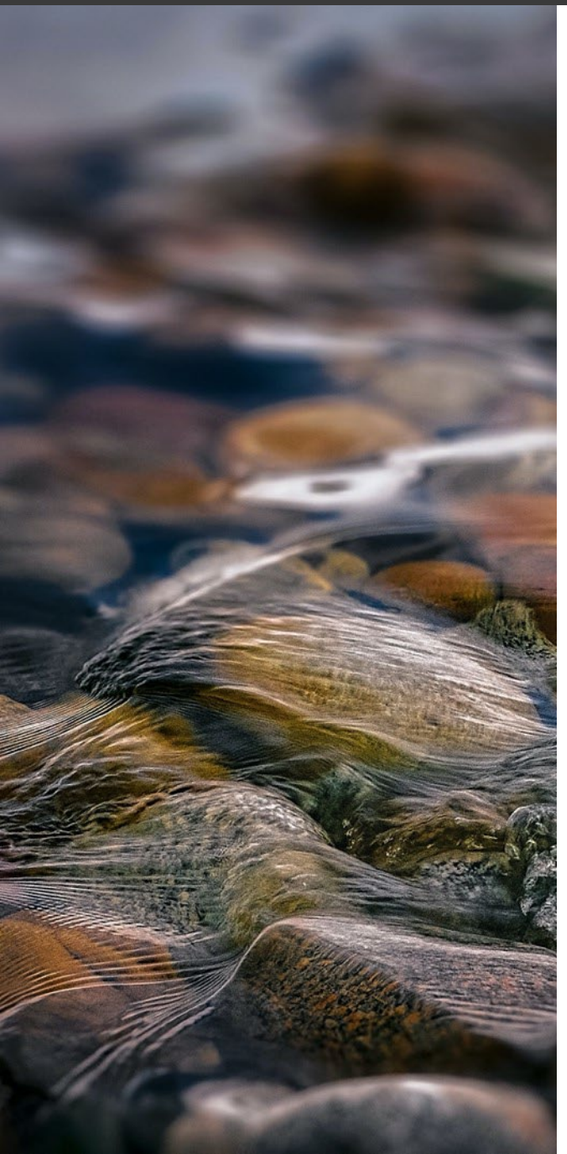
5. Potential Groundwater Impacts from Future Large Industrial Users - anytime with a slight preference for 2028-2030
6. Historical Water Use Database - anytime with a slight preference for 2025-2027
7. Privately-owned Wells: Groundwater Analysis and Future Considerations – anytime with a slight preference for 2028-2030

Survey results – Mitigation measure evaluation potential projects



1. Potential Water Savings by Sustainable and Water Efficient Irrigation Systems – anytime with a slight preference for 2028-2030
2. Unaccounted for Water Analysis and Potential Savings – anytime with a slight preference for 2028-2030

Survey results – Planning and implementation potential projects



1. Local Planning Handbook Content Regarding Water Supply – preferably done around 2025-2027
2. Guidance for Funding Opportunities to Support Local Plan Implementation – anytime with a preference for 2028-2030
3. PlantIt Programming Regarding Water Supply – preferably done around 2025-2027
4. System Statement Content Regarding Water Supply – anytime with a slight preference for 2031-2033

Survey results – Overall rankings (1/3)

1. Groundwater-Surface Water Interaction Effects and Impacts
2. Regional Groundwater Model Update – Water Balance
3. Infrastructure Water Supply Needs
4. Long-term Analysis: Groundwater Capacity, Resource Limitation, Vulnerability and Growth
5. Groundwater Elevations Database Coordination with Department of Natural Resources
6. Potential Water Savings by Sustainable and Water Efficient Irrigation Systems
7. Long-term Effects of Climate Change on Water Supplies
8. Treatment Technologies and Costs to Address Multiple Contaminants

Survey results – Overall rankings (2/3)

9. Regional Assessment of Aging Water Infrastructure
10. Water and Wastewater Reuse Potential
11. Potential Groundwater Impacts from Future Large Industrial Users
12. Local Planning Handbook Content Regarding Water Supply
13. Historical Water Use Database
14. Framework for Coordinated Multi-Community Wellhead Protection and Land Use Planning
15. Guidance for Funding Opportunities to Support Local Plan Implementation

Survey results – Overall rankings (3/3)

16. Unaccounted for Water Analysis and Potential Savings
17. One Water Potential and Benefits
18. Nitrate Study
19. Partnering on Multi-Community Water Supply Emergency Response Exercises
20. PlanIt Programming Regarding Water Supply
21. System Statement Content Regarding Water Supply
22. Privately-owned Wells: Groundwater Quality Analysis and Future Considerations

Summary of potential projects for next three years (2025-2027) (1/2)

1. Infrastructure Water Supply Needs
2. Groundwater Elevations Database Coordination with DNR
3. Treatment Technologies and Costs to Address Multiple Contaminants
4. Regional Assessment of Aging Infrastructure
5. Water and Wastewater Reuse Potential
6. Regional Groundwater Model Update
7. Long-Term Effects of Climate Change on Water Supplies

Summary of potential projects for next three years (2025-2027) (2/2)

8. Historical Water Use Database Treatment Technologies and Costs to Address Multiple Contaminants
9. Local Planning Handbook Content Regarding Water Supply
10. PlantIt Programming Regarding Water

Next steps

Staff will further prioritize the studies and develop a work plan to schedule the studies for the next two years.

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