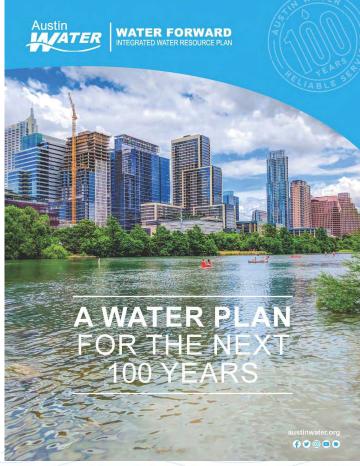


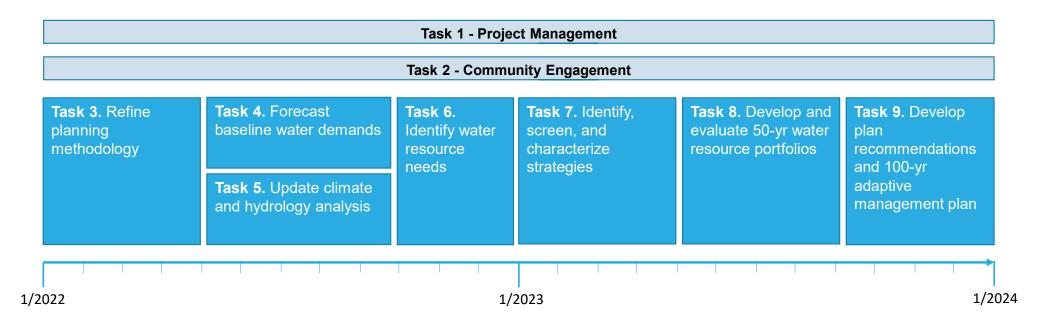
Water Forward 2018 (WF18)

**Overview** 

- Approved by Council in November 2018
- An Austin Water-led interdepartmental effort to develop a 100-year water plan that reflects our community's values
- Key drivers included population growth, droughts, and climate change
- Council-appointed Task Force met monthly
- Community outreach throughout the plan development process
- Goal is to ensure a diversified, sustainable, and resilient water future, with strong emphasis on water conservation
- Planned to be updated on a five-year cycle



# Water Forward 2024 (WF24) Project Plan





### Roles & Responsibilities

#### **Austin Water**

- Water Forward Steering Committee and Executive Project Sponsor
- Project Manager
- Task Leads and Technical Teams

Consultants

Other City Departments

Water Forward Task Force

Climate Technical Advisory
Group

**Community Ambassadors** 

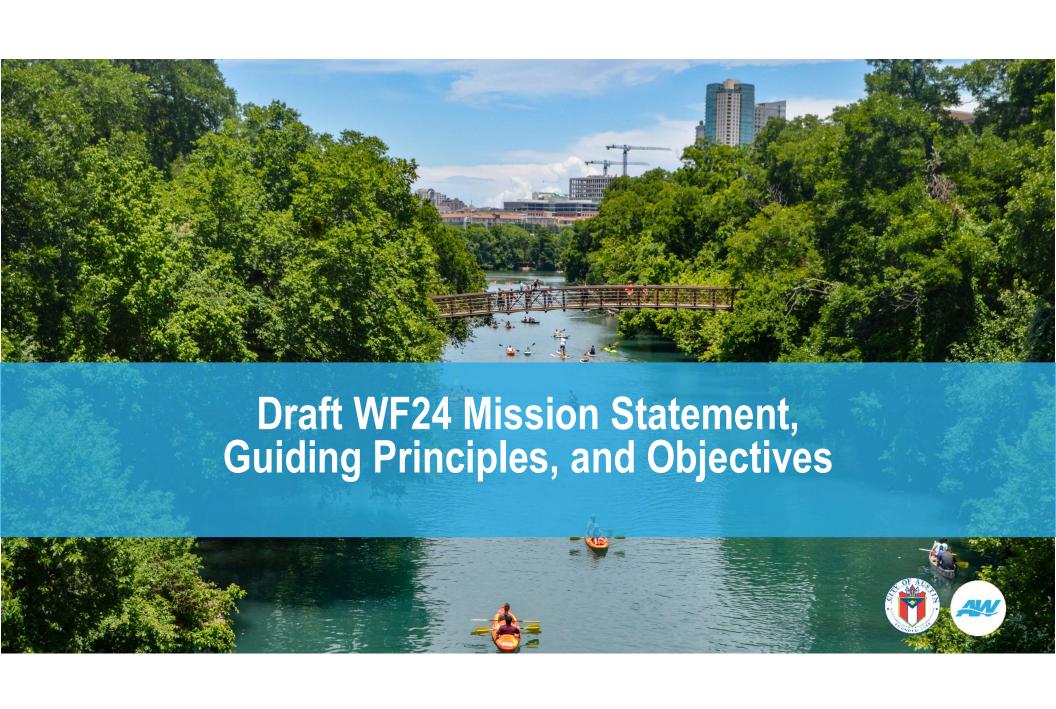
Targeted Stakeholder Groups

**AW Customers** 



### WF24 Task Progress to Date & Next Steps

	Task Name	Progress to Date	Next Steps	
1	Project Management	Identified consultant procurement approaches	Continue consultant procurement process	
2	Community Engagement	<ul> <li>Developed Community Advisory Group (CAG) recruiting materials and currently recruiting CAG members</li> <li>Began draft Education and Engagement Plan (EEP) development</li> </ul>	<ul> <li>Develop CAG meeting materials and review CAG applications</li> <li>Complete draft EEP</li> </ul>	
3	Planning Methodology	<ul> <li>Developed draft mission statement &amp; guiding principles and received WF24 Internal Working Group &amp; Steering Committee feedback</li> </ul>	Receive WF Task Force feedback on draft mission statement & guiding principles	
4	Demand Forecast	<ul> <li>Began development of baseline 2020 population estimates</li> <li>Continued Disaggregated Demand Model (DDM) structural update work</li> </ul>	<ul> <li>Continue development of baseline population and employment estimates</li> <li>Continued DDM structural update work</li> </ul>	
5	Climate and Hydrology Analysis	<ul> <li>UT developed Global Climate Model (GCM) selection memo and identified downscaling methodology</li> <li>Held Climate Technical Advisory Group meeting 1/28</li> </ul>	Develop time series of downscaled weather variables from each GCM	



## Statement of Purpose

#### Water Forward 2018

The Integrated Water Resource Plan (IWRP) will provide a mid- and long-term evaluation of, and plan for, water supply and demand management options for the City of Austin in a regional water supply context.

Through public outreach and coordination of efforts between City departments and the Austin Integrated Water Resource Planning Community Task Force, the IWRP offers a holistic and inclusive approach to water resource planning.

The plan embraces an innovative and integrated water management process with the goal of ensuring a diversified, sustainable, and resilient water future, with strong emphasis on water conservation.

#### Water Forward 2024 – Draft Proposed

The purpose of Water Forward is to develop and implement diverse water management strategies to adapt to growth, drought, and climate change and ensure a sustainable, resilient, equitable, and affordable water future for our community for the next 100 years.

## **Guiding Principles**

#### Water Forward 2018

- Avoid severe water shortages during times of drought
- Engage the public and stakeholders throughout the plan development process
- Continue Austin's focus on water conservation and water use efficiency
- Strengthen long-term sustainability, reliability, and diversity of Austin's water supply through maximizing local water resources
- Continue to protect Austin's natural environment, including source and receiving water quality
- Focus on projects that are technically, socially, and economically feasible

Foundational Utility Practices Recognizing that Colorado River water is Austin's core supply, continue a strong partnership between the City and LCRA to assure its reliability

Ensure Austin's water supply continues to meet/exceed all federal, state and local public health regulations

Align with Imagine Austin's "Sustainably Manage Our Water Resources Priority Program"

Moved to Objectives

Maintain coordination and communication with regional partners

#### Water Forward 2024 – Draft Proposed

- Create a plan that is resilient to growth, drought and climate change
- Use a holistic and inclusive approach to water resource planning that incorporates the Austin community's values
- Include diverse water management strategies that make use of all water sources, including reuse, conservation, and efficiency
- Continue to protect Austin's natural environment
- Minimize implementation and operational risk

New

Use an equity and affordability lens to develop and implement the plan



## Concepts

#### Distributive justice

 Pertains to the fair distribution of benefits and burdens within society.

#### Procedural justice

 Focuses on the fairness of the process by which a distributive decision is reached.



## Concepts

- Distributive and procedural fairness in this context will seek to align with the City of Austin Equity Office's focus on racial equity.
  - This is in recognition that race is the most consistent predictor across all quality of life outcomes.
  - "Intersections exist within other oppressions such as gender, sexual orientation, age, ability, class, immigrant status, veteran status, but outcomes within these identities still most negatively impact people of color."



## **Draft WF24 Guiding Principles + Objectives Procedural Elements**

Guiding Principles (strategic goals)	Objectives (tactical)	Performance Measures (specific measures to be determined)
Create a plan that is resilient to growth, drought, and climate change	<ul> <li>Incorporate methods to plan for uncertainty with strategies that are resilient through a range of possible futures</li> <li>Focus primarily on long term water supplies, but consider emergency water supply benefits</li> </ul>	Document process to incorporate climate data, perform scenario planning, and evaluate resiliency benefits
Use a holistic and inclusive approach to water resource planning that incorporates the Austin community's values	<ul> <li>Meaningfully engage the Austin Integrated Water Resource Planning Community Task Force, other City departments, regional partners, and the community throughout the process</li> <li>Use multicriteria decision making and reflect community values in the evaluation of trade-offs</li> </ul>	<ul> <li>Track engagement and coordination efforts</li> <li>Document inclusion of community input throughout the planning process</li> </ul>
Include diverse water management strategies that make use of all water sources, including reuse, conservation, and efficiency	Plan for water supply, reuse, and demand management options for the City of Austin	Document process to select and characterize strategies
Use an equity and affordability lens to develop and implement the plan	<ul> <li>Use an equity lens throughout the planning process</li> <li>Evaluate affordability impacts in a holistic manner that balances near-term and long-term costs</li> </ul>	Develop a WF24 Equity and Affordability Roadmap



## **Draft WF24 Guiding Principles + Objectives Distributive Elements**

Guiding Principles (strategic goals)	Objectives (tactical)	Performance Measures (specific measures to be determined)	
Create a plan that is resilient to growth, drought, and climate change	Avoid severe water shortages during drought and a variety of climate change scenarios	WAM modeling results	
Include diverse water management strategies that make use of all water sources, including reuse, conservation, and efficiency	Continue Austin's focus on water conservation and water use efficiency	Potable GPCD     Portfolio diversity score*	
Use an equity and affordability lens to develop and implement the plan	Minimize impacts and maximize benefits of plan outcomes for vulnerable communities	Cost (lifecycle, capital, O&M)  Equity & Affordability Tool*	
Continue to protect Austin's natural environment	Develop strategies that continue to protect Austin's natural environment, including source and receiving water quality	Net return flows     Operational energy use     Water quality impacts*	
Minimize implementation and operational risk	Develop strategies that can be implemented and operated with a manageable level of risk	<ul> <li>Implementation and operational risk score</li> <li>Volume of local and AW-controlled water resources</li> <li>System resiliency benefits</li> </ul>	



\*New for Water Forward 2024

### **Draft WF24 Guiding Principles + Objectives**

Guiding Principles (strategic goals)		Objectives (tactical)	Performance Measures (specific measures to be determined)
Create a plan that is resilient to growth, drought, and climate change	Procedural	<ul> <li>Incorporate methods to plan for uncertainty with strategies that are resilient through a range of possible futures</li> <li>Focus primarily on long term water supplies, but consider emergency water supply benefits</li> </ul>	Document process to incorporate climate data, perform scenario planning, and evaluate resiliency benefits
	Distributive	Avoid severe water shortages during drought and a variety of climate change scenarios	WAM modeling results
Use a holistic and inclusive approach to water resource planning that incorporates the Austin community's values	Procedural	<ul> <li>Meaningfully engage the Austin Integrated Water Resource Planning Community Task Force, other City departments, regional partners, and the community throughout the process</li> <li>Use multicriteria decision making and reflect community values in the evaluation of trade-offs</li> </ul>	<ul> <li>Track engagement and coordination efforts</li> <li>Document inclusion of community input throughout the planning process</li> </ul>
Include diverse water management strategies that make use of all water sources,	Procedural	Plan for water supply, reuse, and demand management options for the City of Austin	Document process to select and characterize strategies
including reuse, conservation, and efficiency	Distributive	Continue Austin's focus on water conservation and water use efficiency	<ul> <li>Potable GPCD</li> <li>Portfolio diversity score*</li> </ul>
Use an equity and affordability lens to develop and implement the plan	Procedural	<ul> <li>Use an equity lens throughout the planning process</li> <li>Evaluate affordability impacts in a holistic manner that balances near-term and long-term costs</li> </ul>	Develop a WF24 Equity and Affordability Roadmap
	Distributive	Minimize impacts and maximize benefits of plan outcomes for vulnerable communities	Cost (lifecycle, capital, O&M)     Equity & Affordability Tool
Continue to protect Austin's natural environment	Distributive	Develop strategies that continue to protect Austin's natural environment, including source and receiving water quality	<ul> <li>Net return flows</li> <li>Operational energy use</li> <li>Water quality impacts*</li> </ul>
Minimize implementation and operational risk	Distributive	Develop strategies that can be implemented and operated with a manageable level of risk	<ul> <li>Implementation and operational risk score</li> <li>Volume of local and AW-controlled water resources</li> <li>System resiliency benefits*</li> </ul>

## **Next Steps**

- Requesting any additional Task Force feedback by Tuesday, February 22<sup>nd</sup>
- Plan to revisit this item at the March 1<sup>st</sup> Task Force meeting

