

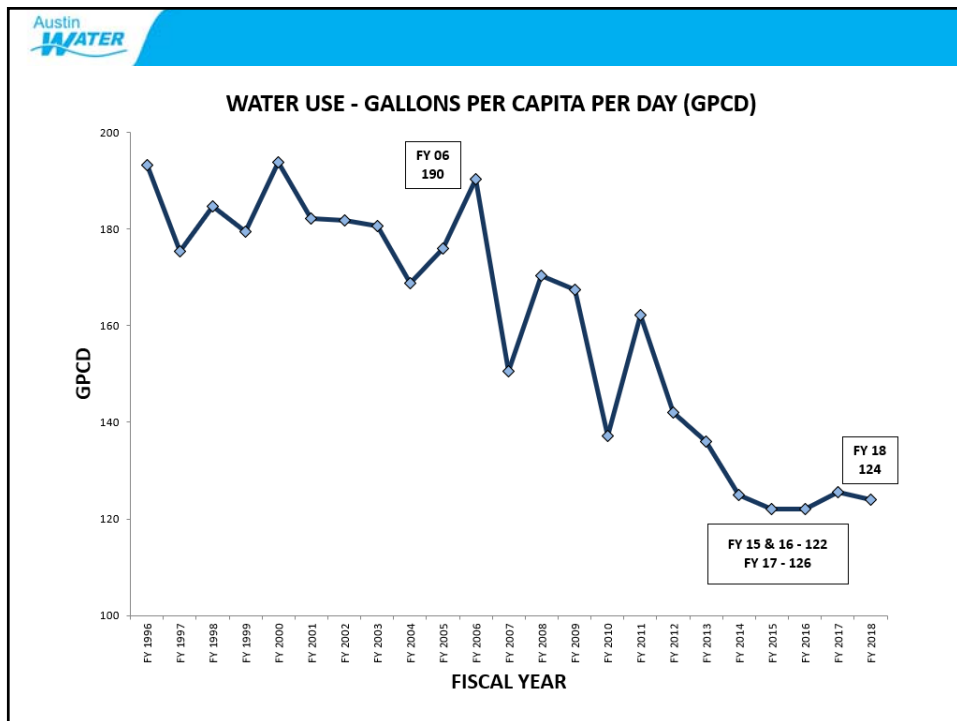
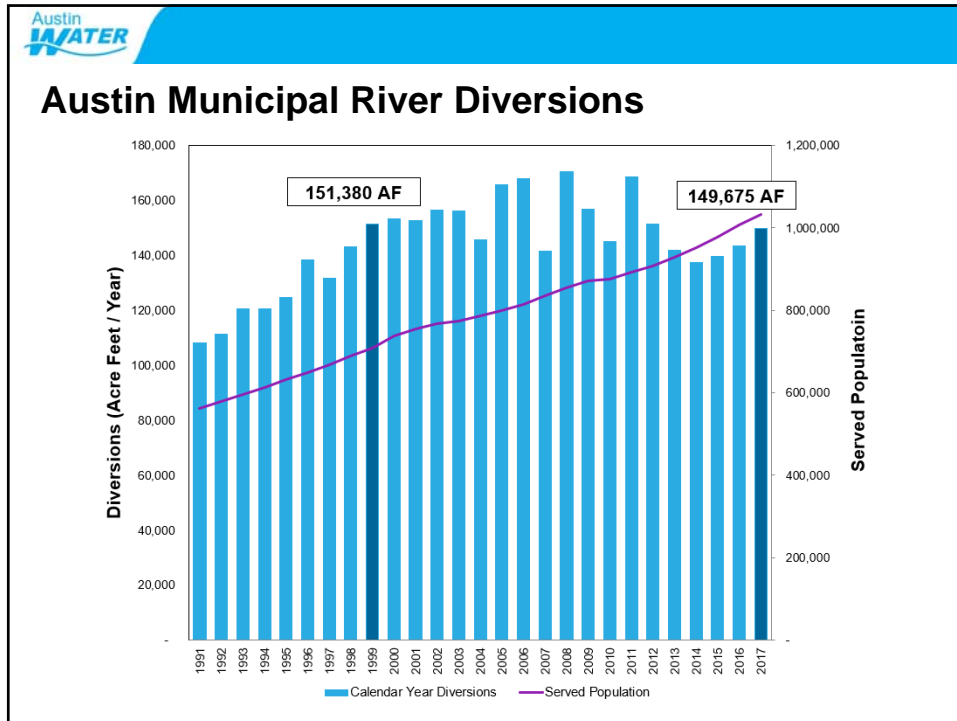
Austin's Current Water Management Strategies

- Colorado River and Highland Lakes Water Supply
 - Combination of state-granted water rights & long-term firm contract with Lower Colorado River Authority (325,000 acre-feet per year)
- Water Conservation Programs
- Centralized Reclaimed Water System
- Drought Contingency Plan

Legend

- Water Treatment Plant (WTP)
- Dams
- Colorado River
- Highways
- Austin Water Planning Area Boundary
- County Boundary

5 Miles



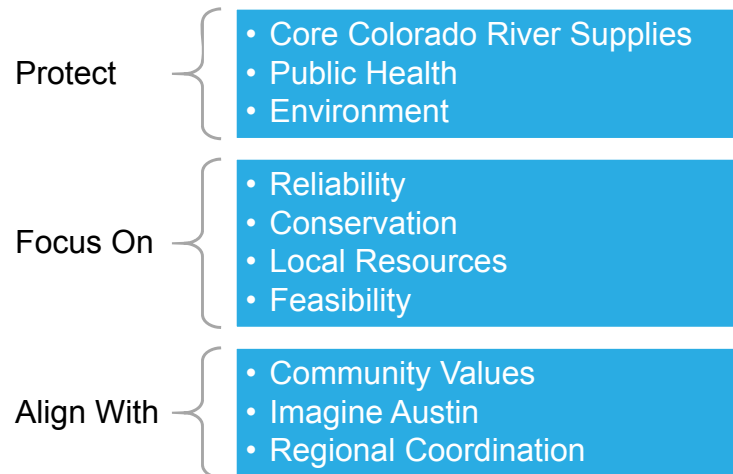


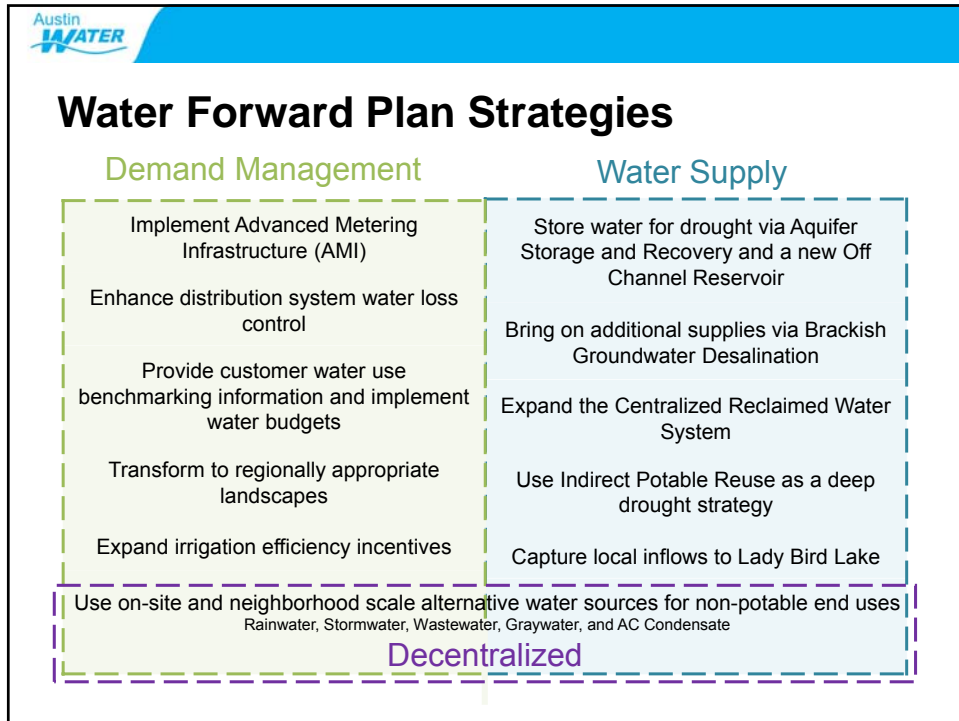
Water Forward Development

- Recommendation from 2014 Task Force
- Council Appointed Task Force convened in May 2015
- By July 2016, consultant team procured included CDM Smith, Dr. Katherine Hayhoe (climate scientist), and Dr. Richard Hoffpauir (hydrologist)
- Plan approved by Water Forward Task Force, W&WW Commission, and Austin's City Council in November 2018




Guiding Principles for Plan Development






Austin WATER


City of Austin Water Conservation including Current Programs and Water Forward Strategies




Enhance distribution system water loss control




Advanced Metering Infrastructure



Landscape Transformation

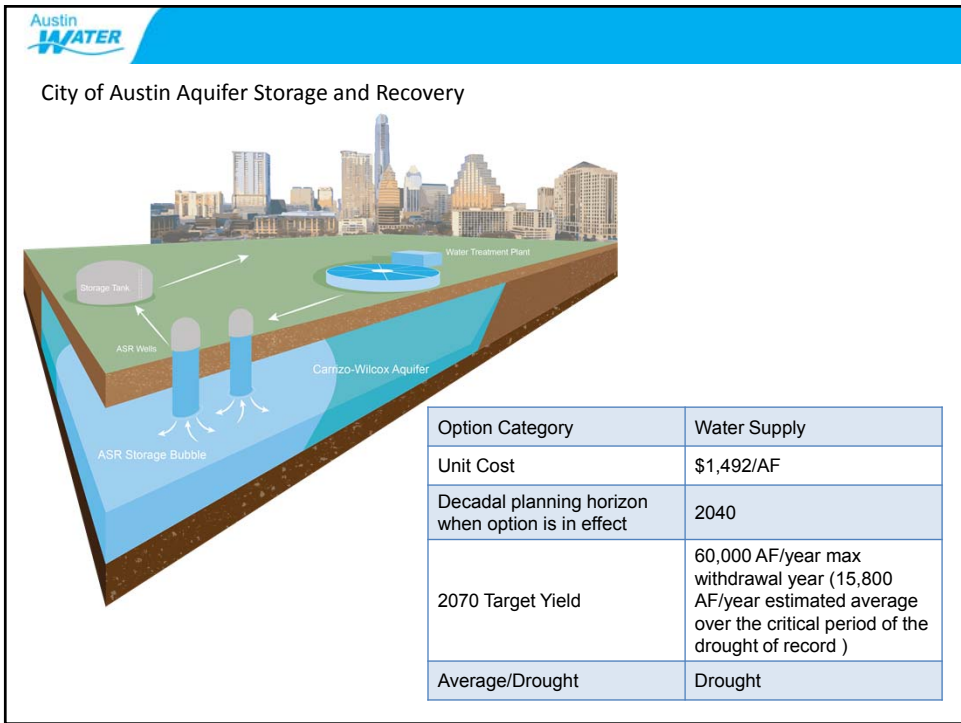
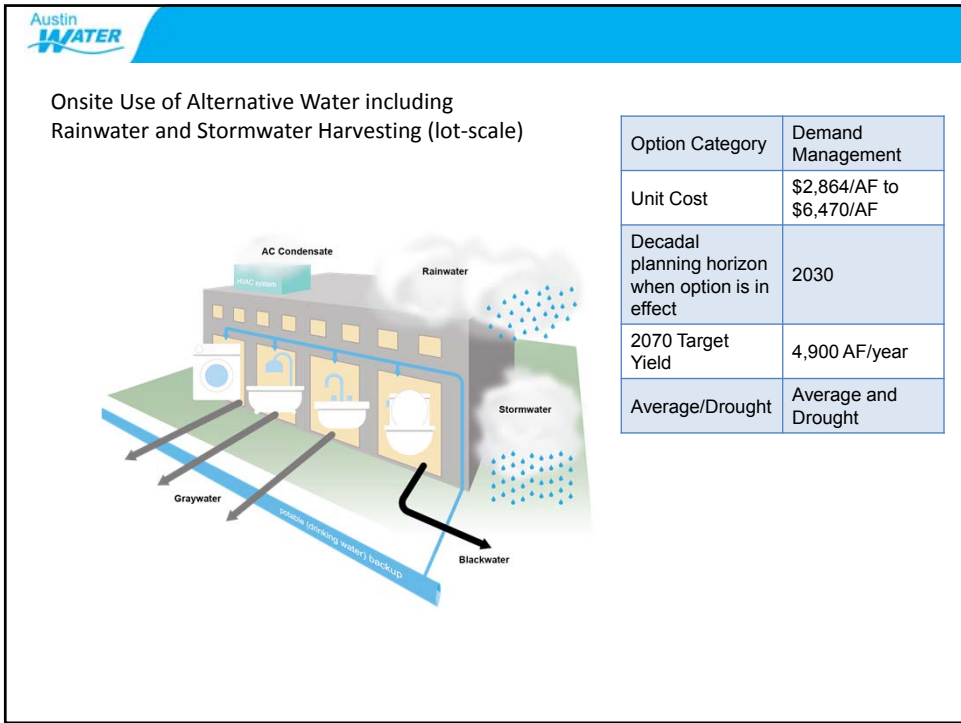


Benchmarking



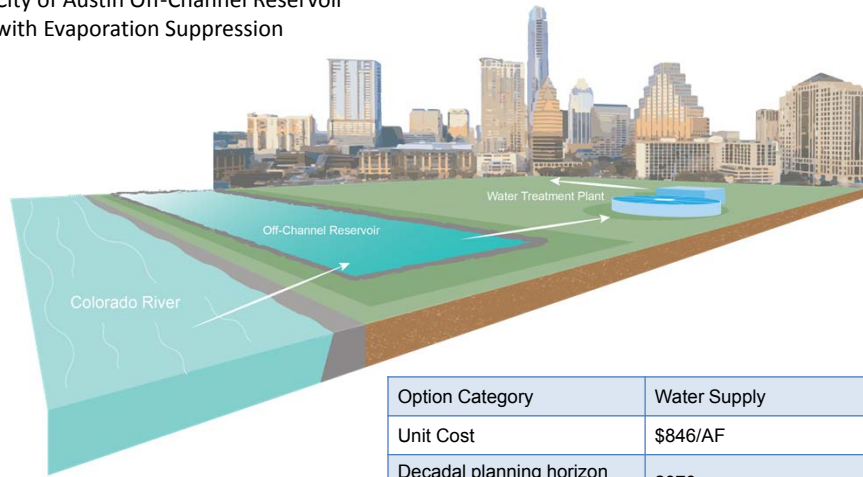
Irrigation Efficiency

Option Category	Demand Management
Unit Cost	\$21/AF to 3,690/AF
Decadal planning horizon when option is in effect	2020
2070 Target Yield	40,620 AF/year
Average/Drought	Average and Drought





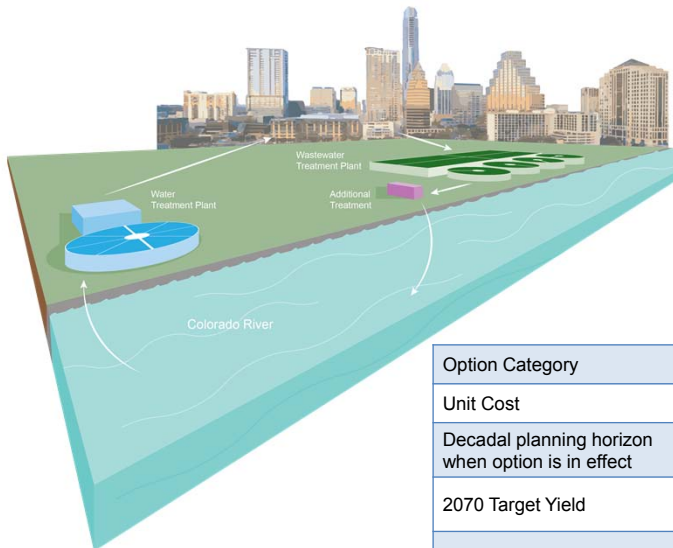
City of Austin Off-Channel Reservoir with Evaporation Suppression



Option Category	Water Supply
Unit Cost	\$846/AF
Decadal planning horizon when option is in effect	2070
2070 Target Yield	25,000 AF/year – OCR 847 AF/year – Evap. Supp.
Average/Drought	Average and Drought



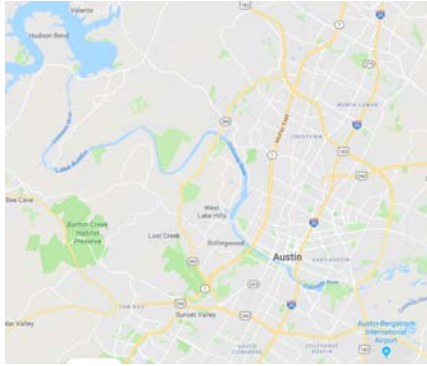
City of Austin Capture Local Inflows (CLI) to Lady Bird Lake and Indirect Potable Reuse (IPR) through Lady Bird Lake



Option Category	Water Supply
Unit Cost	\$605/AF
Decadal planning horizon when option is in effect	2070
2070 Target Yield	20,000 AF/year – IPR 3,000 AF/year – CLI
Average/Drought	Average (CLI) and Drought (IPR)



City of Austin Lake Austin Operations



Water Forward Best Management Practice (BMP) Strategy:
Off-Season lake operations with a 3 foot draw down after combined storage in the Highland Lakes falls below 600,000 AF

Option Category	Water Supply
Unit Cost	TBD
Decadal planning horizon when option is in effect	2020
2070 Target Yield	2,500 AF/year
Average/Drought	Drought



- This presentation highlights the seven strategies that are the subject of AECOM's Draft Summaries to date
- Additional Austin strategies to be presented at a future meeting:
 - Centralized reclaimed water reuse
 - Distributed wastewater reuse and sewer mining
 - Brackish groundwater desalination
 - Community-scale stormwater harvesting
 - Onsite graywater and blackwater reuse

