

Allens Creek Reservoir Update

Presented by
Tiffany Morgan
Environmental Services Manager



Need for Reservoir

- BRA's existing water supply system – ≈700,000 acre-ft/yr
- Texas population expected to grow 70% by 2070
 - 25 million people to more than 51 million people
- Meet water needs of the rapidly growing Lower basin



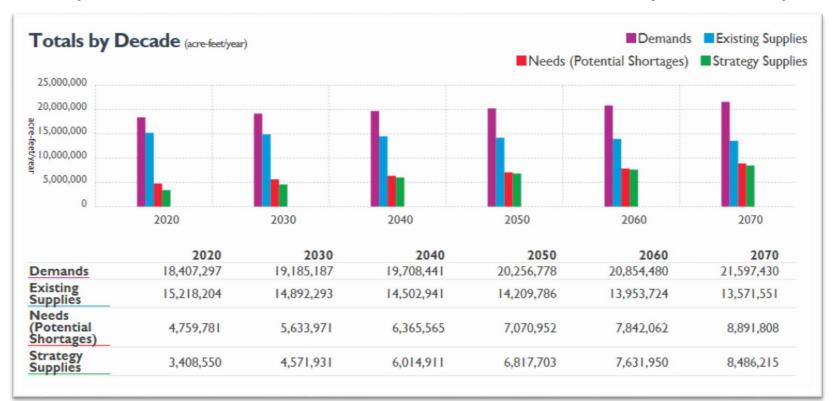
Allens Creek at Mixville Road During Flood

Meeting Date: April 14, 2016 Page 2

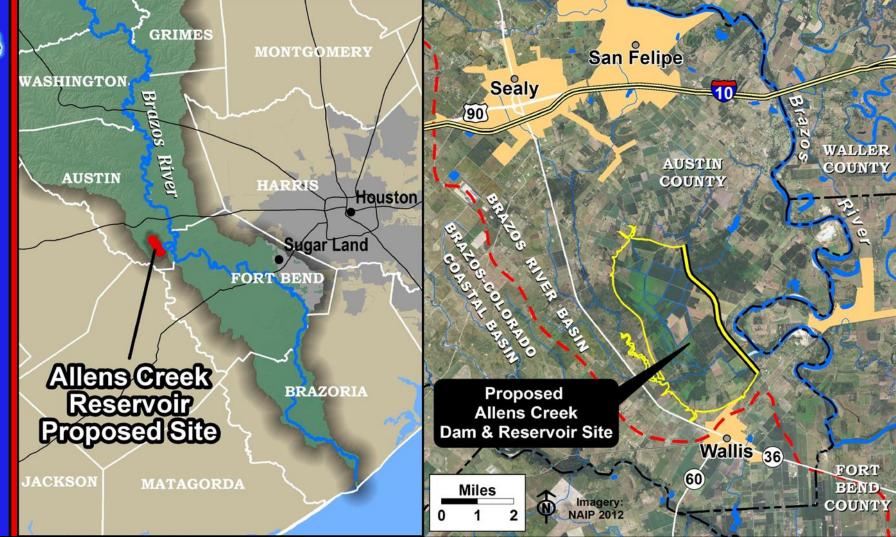


Water Need Projections

(Draft 2017 Texas State Water Plan – Texas Water Development Board)









Four Requirements to Build a Reservoir

- Water Right Permit
 - Complete
- Property Acquisition
 - Substantially complete
- Environmental Permitting
 - In early stages
- Design
 - Will be initiated soon



Upland Chorus Frog at Allens Creek Site



Permitting

- U.S. Army Corps of Engineers 404 Permit
 - National Environmental Policy Act (NEPA) Public meetings and hearings throughout process
- Federal Emergency Management Agency Floodplain Permitting
- TCEQ 401 Water Quality Certification
- Texas Historical Commission Texas Antiquities Permit



Environmental Studies to Support Permitting

- Water operations
- Water rights
- Floodplain
- Stream Flows
- Habitat
- Wetlands
- Threatened and Endangered Species
- Cultural Resources



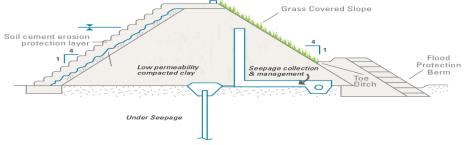
Texas Spider Lilies at Allens Creek Site.



Design

- Dam
- Pump Station(s)
- Sedimentation Basin
- Outlet
- Spillway





Page 8

Embankment Dam



Anticipated Schedule

- Environmental Assessments and 30% Design
 - **2016 2019**
- Permit Approval, Public Interaction, Archaeological Relocation, Construction Preparation
 - **2019 2021**
- Construction
 - 2021 2024



Operations

- Water supply reservoir
- Water levels will not be constant
- Water levels will fluctuate significantly and frequently
- Provide enough water to supply 150,000 households each year
- Some recreational opportunities will be available



Future Allens Creek Reservoir site.

Meeting Date: April 14, 2016 Page 10



