

Water for the People...It Takes Leadership

**UCT National Conference
January 28, 2020**

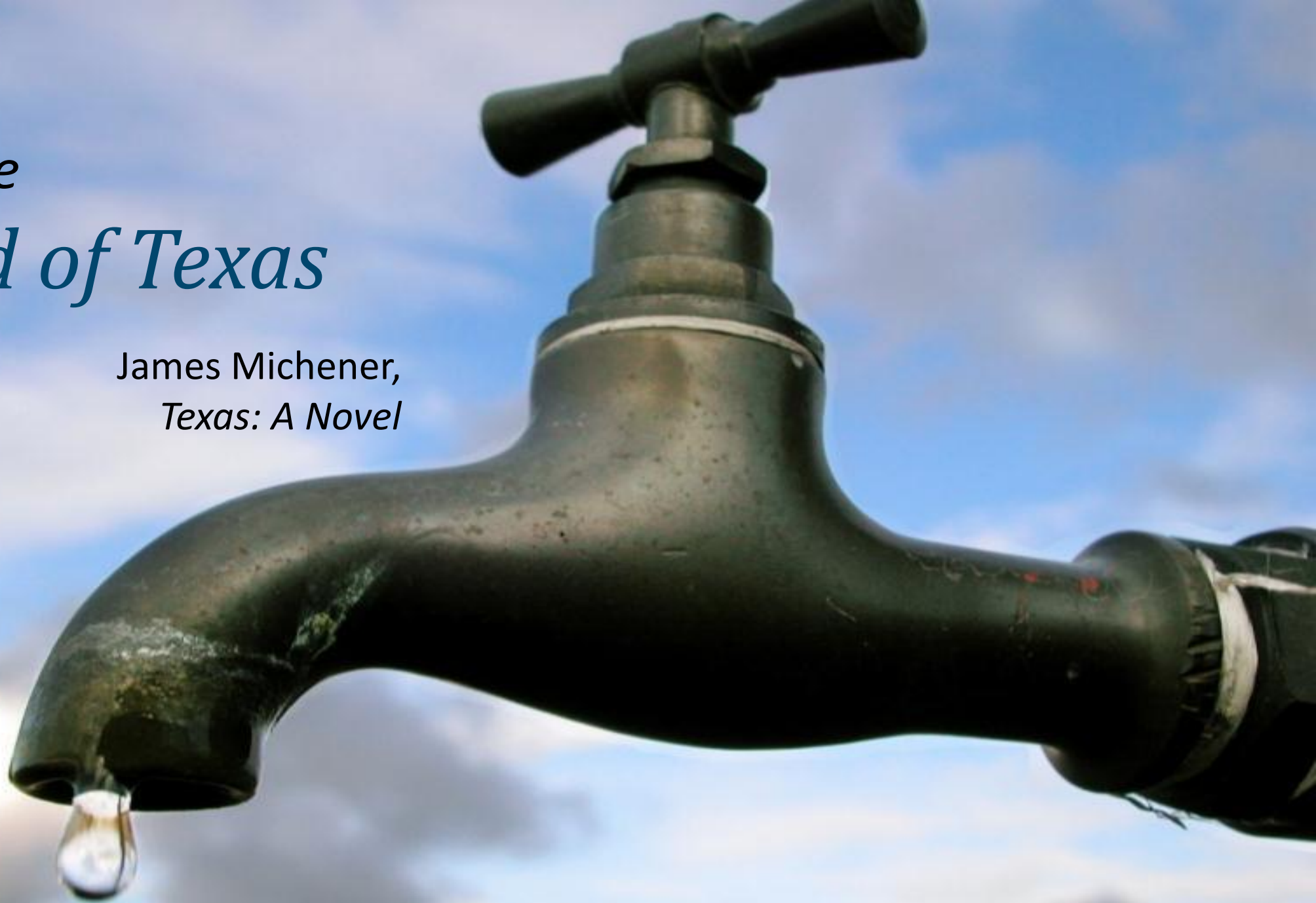
**Larry N. Patterson, P.E.
Executive Director**

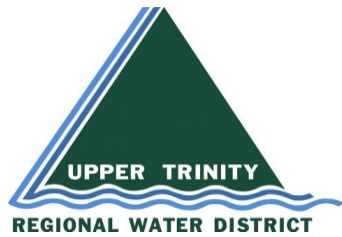
UPPER TRINITY

**REGIONAL WATER DISTRICT
1908 KEELY**

WATER,
Not oil, is the
lifeblood of Texas

James Michener,
Texas: A Novel



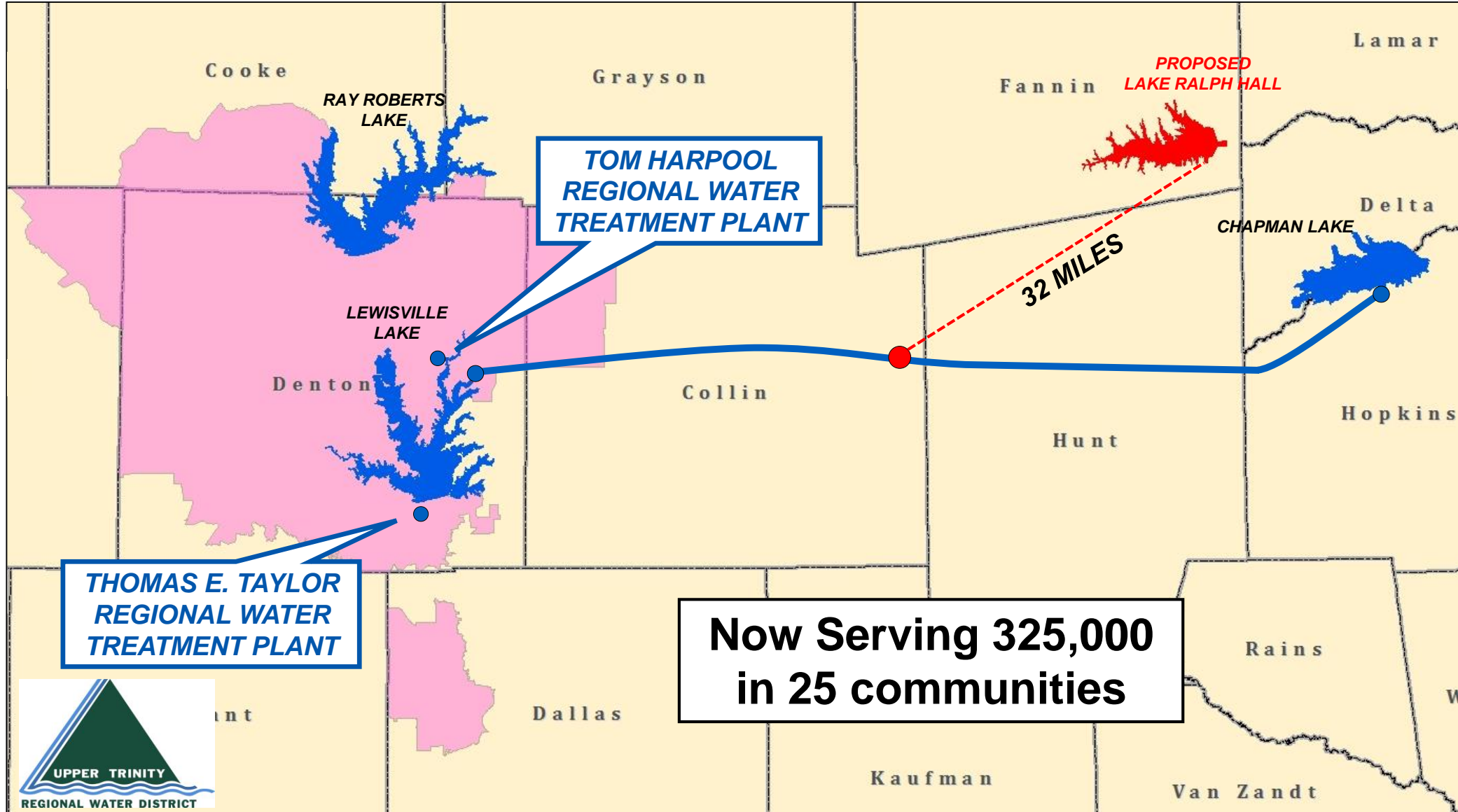


UTRWD - - History

*Began with no facilities or money - - just a **VISION** - - to develop a regional network of water & wastewater treatment facilities to **SERVE THE PEOPLE***

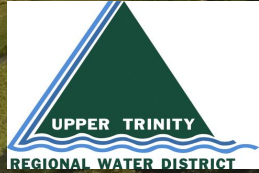
- **Created by Texas Legislature in 1989**
- **Wholesale Water & Wastewater Service Provider**
- **First water service provided in 1997**
- **Promotes protection of watersheds and greenbelt areas**
- **Lake Ralph Hall - - Water Rights Permitted in 2013**

Upper Trinity Regional Water District Water System Service Area & Sources



Thomas E. Taylor Water Treatment Plant

**Existing = 70 mgd
Expandable to 300 mgd**



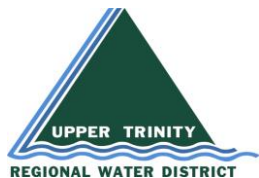
Lewisville, Texas



**Current Capacity
20 mgd**

**Expandable to
240 mgd**

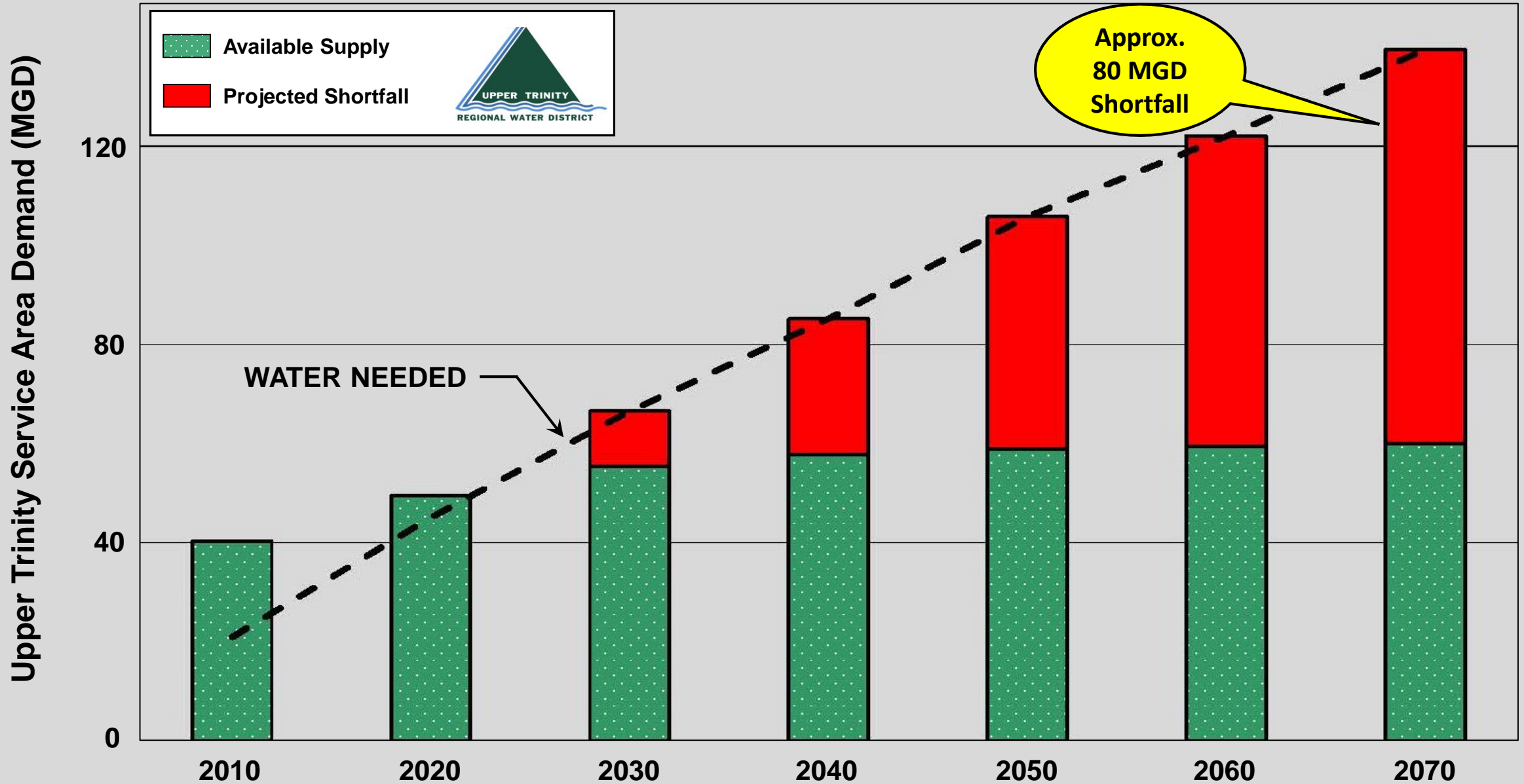
Harpool Water Treatment Plant



Location: Providence Village, Texas



Water Resources Projections



Developing New Water Supplies



**Barking up the
wrong tree**



**Didn't want to
Lay an Egg**



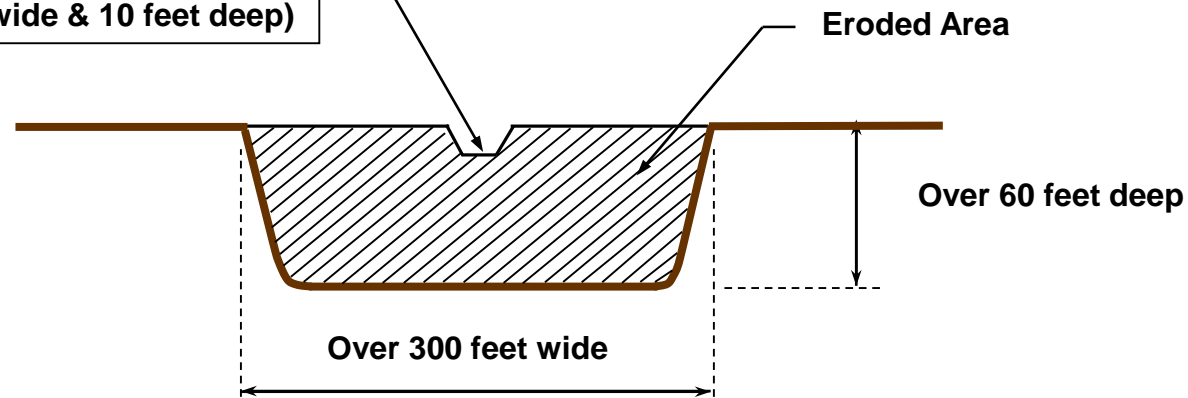
To **Hell in a
Hand Basket**

North Sulphur River



- River channelized in the late 1920's
- Agricultural Project
- Intended to improve drainage

Original Channel Cross-Section
(Approx. 16 feet wide & 10 feet deep)



Current Channel Cross-Section

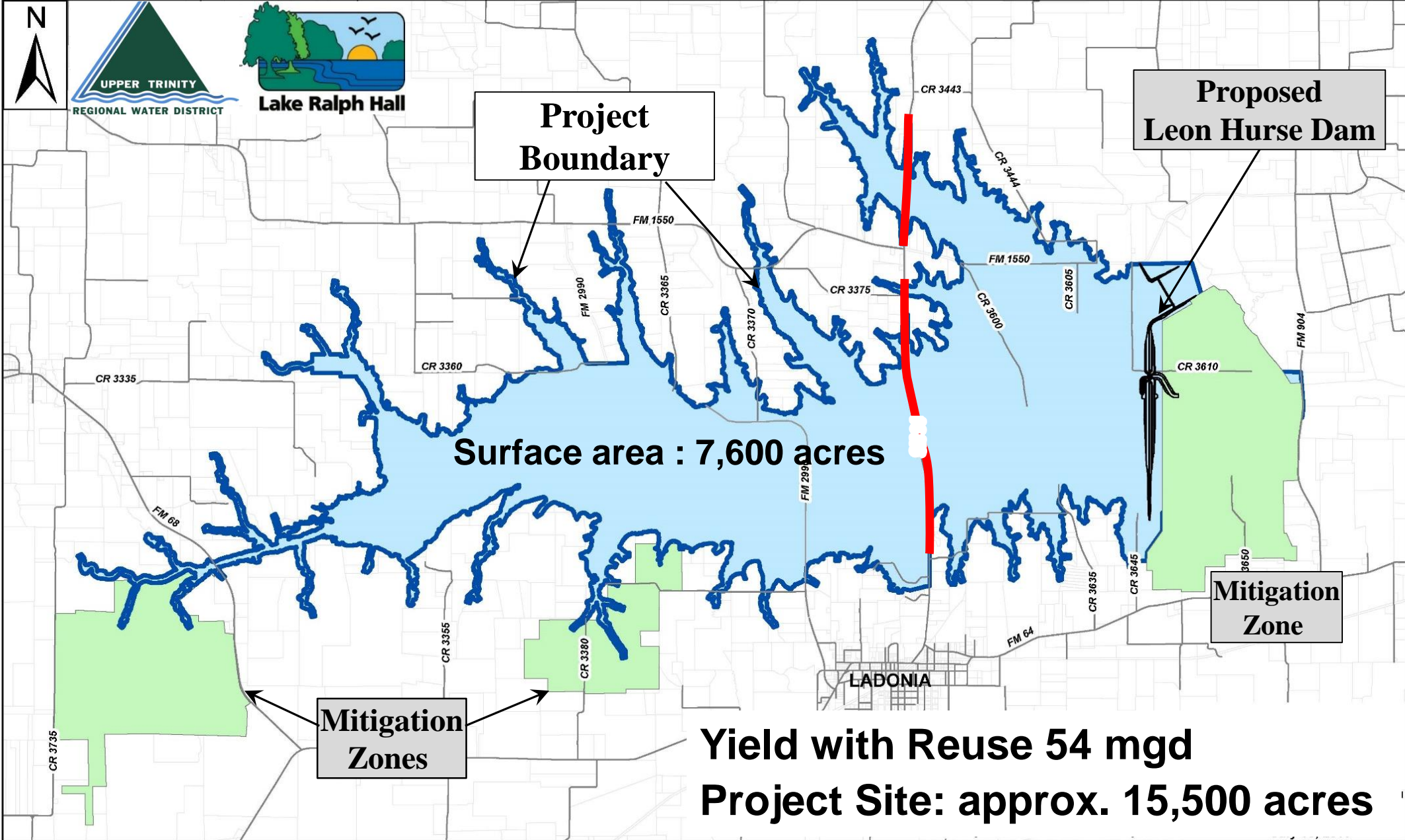


Channel Upstream of Hwy 34 Bridge

Nov. 2008



PROPOSED LAKE RALPH HALL



Project Boundary

Proposed Leon Hulse Dam

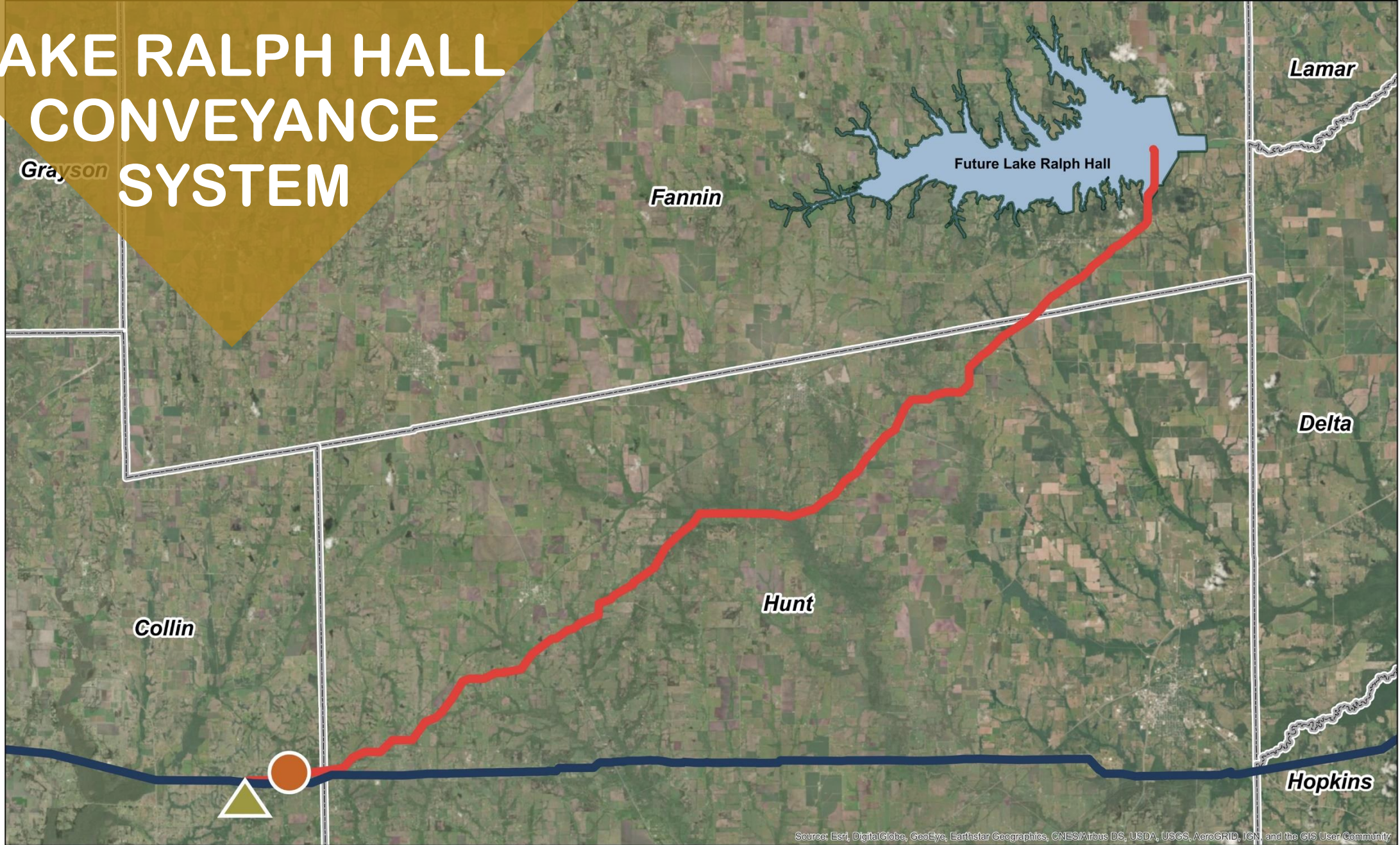
Surface area : 7,600 acres

Mitigation Zones

Mitigation Zone

Yield with Reuse 54 mgd
Project Site: approx. 15,500 acres

LAKE RALPH HALL CONVEYANCE SYSTEM



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



— Proposed Lake Ralph Hall Pipeline
— Existing Chapman Lake Pipeline

● Existing Irving Balancing Reservoir and Proposed Lake Ralph Hall Balancing Reservoir
▲ Existing Irving Pump Station



Management or Leadership ?

- **Management = Coping with Complexity**
- **Leadership = Coping with Rapid Change / Uncertainty**

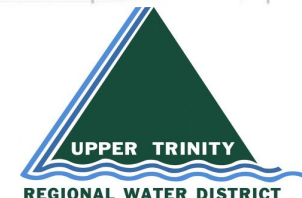
Good Management -- Controls Complexity

Effective Leadership Produces Useful Change



Lake Ralph Hall

LADONIA



What Leaders - - Really Do

➤ Develop the Vision

➤ Take Risks

➤ Provide Motivation

➤ Manage subordinate's career path

➤ Have the Courage to make Decisions

➤ Set Direction & strategies

➤ Align People vs organizing

➤ Recognize Achievement

“Each of us can be a Leader”

Must get the right fit between people and vision



Preliminary Subject to Change
The Preliminary Project Boundary Line noted on this map is approximate and subject to change; the final boundary may be affected by requirements of State and Federal agencies and by actual field conditions. The actual Project Boundary Line will be established by field survey during the purchase of each parcel of property.

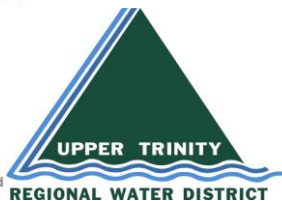


Long Term Water Supply Planning

- Time Consuming - - can be Burdensome
- “Stuff Happens” - - force plans to be redone - - “Its OK”
- Requires an Occasional Burst of Energy
- Communication and Direction Setting
- Everyone should be aiming at the same target
- Empowering People not Controlling People
Gets the problems solved



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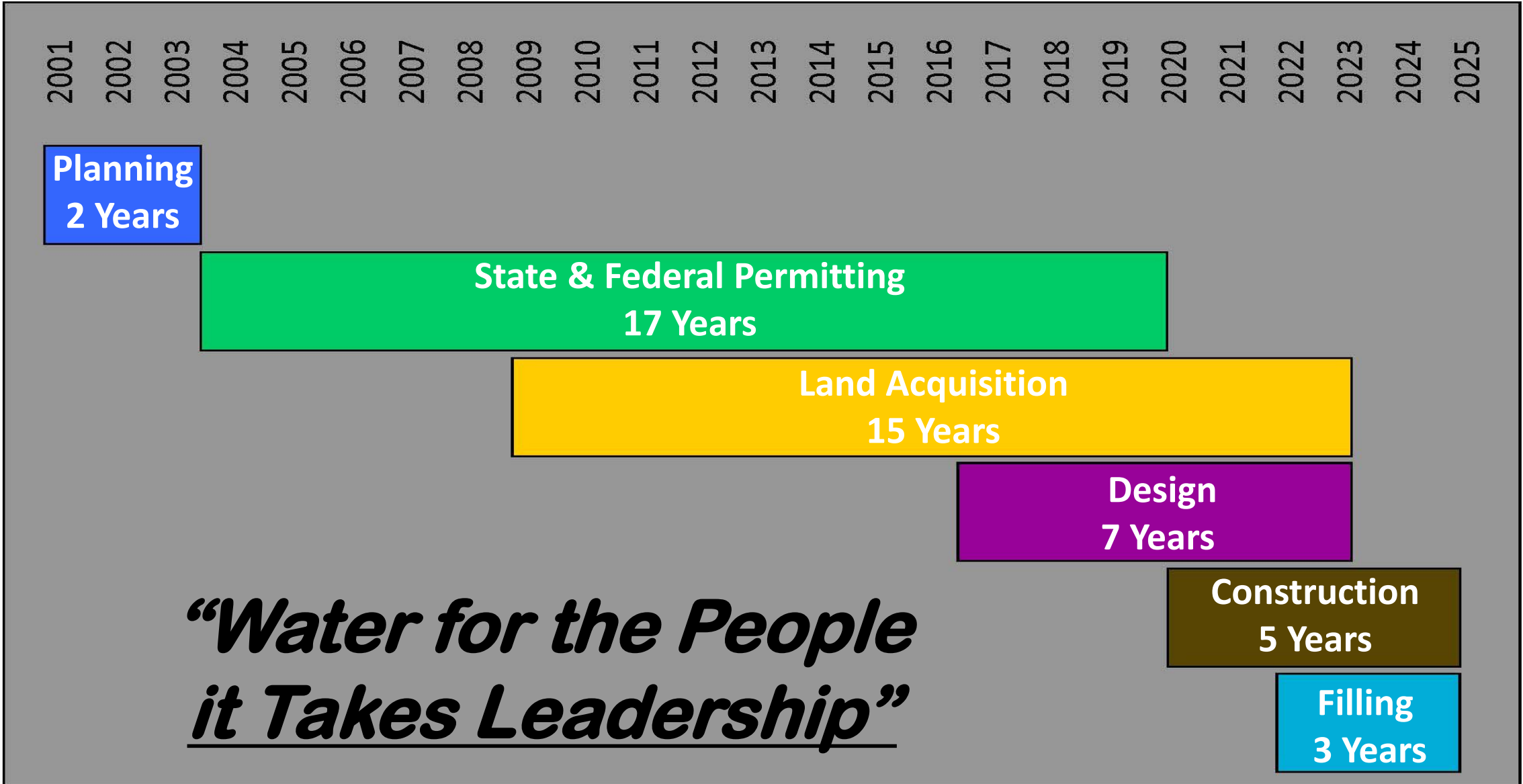
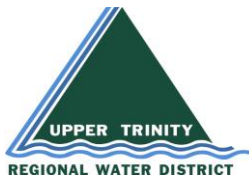
Next Steps for Lake Ralph Hall

- **Acquire Federal 404 Construction Permit**
- **Receive Texas Water Development Funding**
- **Continue Land Acquisition Program**
- **Prepare Final Design & Construct Project**





Lake Ralph Hall Schedule



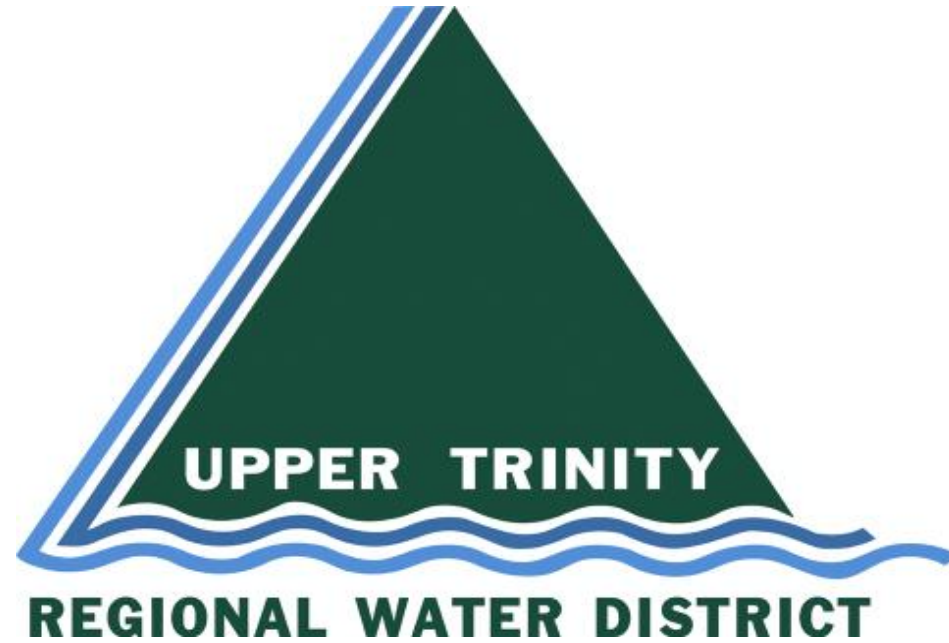
***“Water for the People
it Takes Leadership”***

With Vision and Courage, We Plan



Upper Trinity is committed to reliable long-term water supply, adequate for the District's service area.

Questions



www.lakeralphhallinfo.com

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