

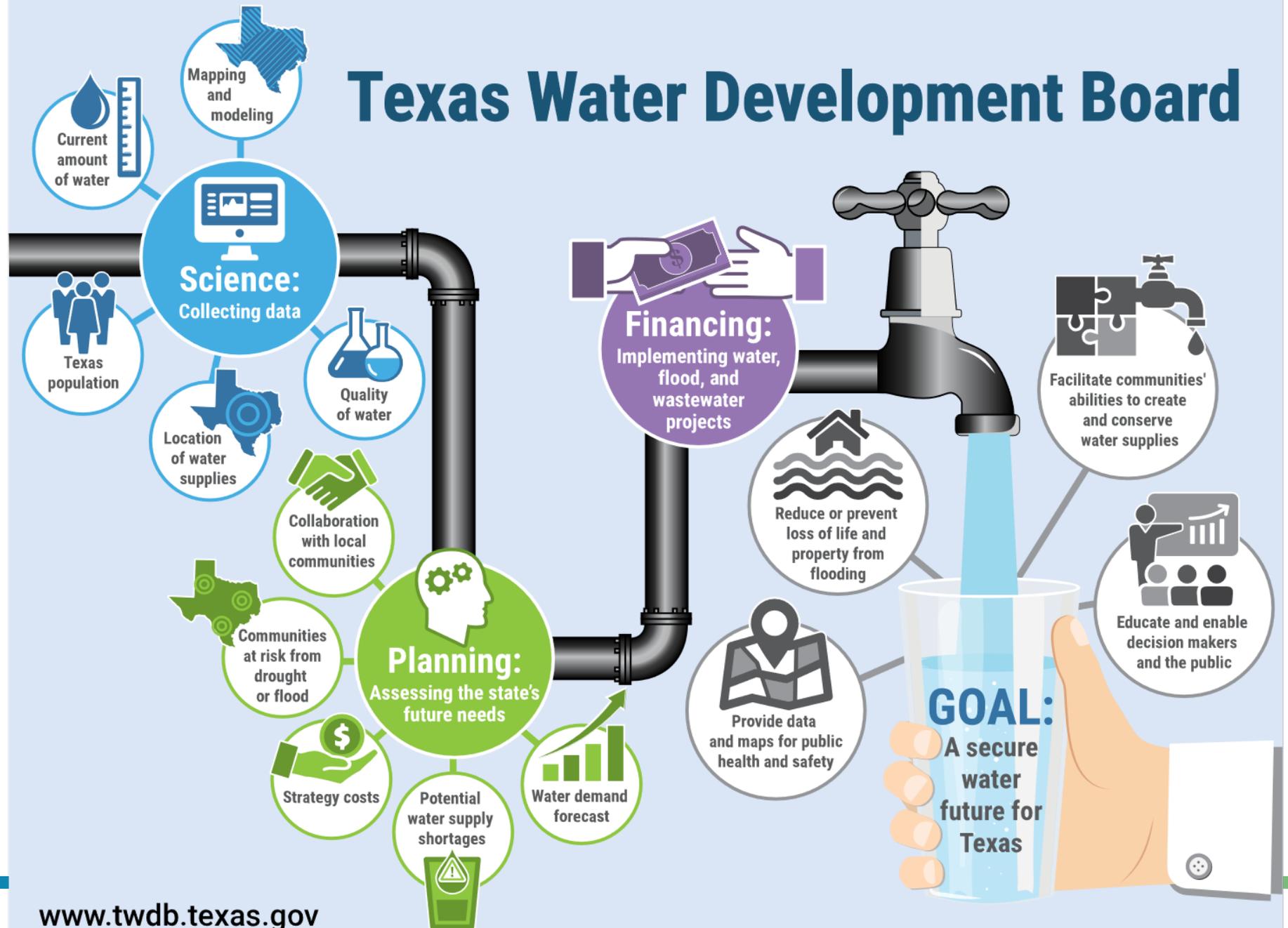
TWDB Role in the Senate Bill 3 Process for Environmental Flows

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Trinity and San Jacinto Rivers and Galveston Bay
Basin and Bay Area Stakeholder Committee Meeting
May 1, 2024

The statements contained in this presentation are my current views and opinions and are not intended to reflect the positions of, or information from, the Texas Water Development Board, nor is it an indication of any official policy position of the Board.

Ensuring a secure water future for Texans

Texas Water Development Board



TWDB Assistance to the SB3 Process

- Provide input for TCEQ's biennial report on TWDB activities/recommendations for the statewide workplan
 - Texas Water Code Section 11.1471(g)(2)
- Provide technical assistance to each BBEST
 - Texas Water Code Section 11.02362(k)
- Provide technical assistance to the Science Advisory Committee
 - Texas Water Code Section 11.02361(f)
- Provide funding for environmental flow studies that support agency strategies
 - General Appropriations Act and Texas Water Code Section 15.4063

Funding for Environmental Flow Studies

- **Strategy A.1.1 Environmental Impact Information**, including to collect, analyze, and facilitate access to data and information to support a sound ecological environment in streams, rivers, bays, and estuaries.
- **Strategy A.1.2 Water Resources Data**, including to collect, analyze, and facilitate access to data and information in support of planning, conservation, and responsible development of surface water and groundwater and to determine the quantity and quality of water available and environmental flow needs.

Recent Studies in the Trinity San Jacinto Basin

| Study Title | Contract No. | Contractor |
|---|--------------|--------------------------------------|
| <u>Quantifying hydrological connectivity in the Trinity River Delta</u> | 2000012435 | The University of Texas-Austin |
| <u>The Assimilative Capacity of Lake Livingston: Nutrients, Sediments, and High Flow Events</u> | 2000012458 | Houston Advanced Research Center |
| Environmental Flows Assessment in the Trinity River Basin | 2000012407 | Trinity River Authority |
| Assessment of subseasonal to seasonal streamflow, reservoir storage, and freshwater inflow forecast skills in the Trinity Basin | 2300012701 | Texas A&M University-College Station |
| Focused flows to protect estuarine nursery habitats | 2300012670 | Texas A&M University-Corpus Christi |
| Developing a 3D SCHISM model for the Texas coast | 2300012715 | Texas A&M University-Galveston |

Visit the Coastal Science project dashboard for access to 49 years of coastal studies



Texas Water Development Board

Coastal Science Projects

200

Projects

All Projects

Sabine-Neches Estuary

Trinity-San Jacinto Estuary

Colorado-Lavaca Estuary

Guadalupe Estuary

Mission-Aransas Estuary

Nueces Estuary

Laguna Madre Estuary

Contract Title

🔍 Search

- Bay and Estuary Hydrographic Survey
- 1996 Bays and Estuary Studies
- 1998 Bays and Estuaries Studies
- 3D Circulation Model Advancements
- A new concept: Water for Preservation of Bays and Es...

Contractor

🔍 Search

- Anchor QEA, LLC
- Aqua Strategies/Texas State University
- Batchelor and Guthrie
- BIO-WEST, INC
- BMT Fluid Mechanics

| Project Title | Report Link | Project Location | Funding Year | Contractor |
|---|----------------------|-----------------------------|--------------|---|
| Coastal Sediment Porewater Salinity Monitoring in Texas | Pending | Lower Laguna Madre | 2023 | The University of Texas Rio Grande Valley |
| Developing a 3D SCHISM model for the Texas coast | Pending | Coastwide | 2023 | Texas A&M University-Galveston |
| Assessment of subseasonal to seasonal streamflow, reservoir storage, and freshwater inflow forecast skills in the Trinity Basin | Pending | Trinity-San Jacinto Estuary | 2022 | Texas A&M University - College Station |
| Continuous Water Quality Monitoring | Data | Coastwide | 2022 | United State Geological Survey |
| Focused flows to protect estuarine nursery habitats | Pending | Coastwide | 2022 | Texas A&M University - Corpus Christi |
| Guadalupe Delta Ecological Assessment of Freshwater Inflows: Phase 3 | Pending | Guadalupe Estuary | 2022 | Guadalupe Blanco River Authority |
| Operational Modeling for Oil Spill Response | Data | Coastwide | 2022 | Texas General Land Office |
| Assessing cumulative effects of water management strategies on | Report | Brazos River Estuary | 2021 | HDR Engineering, INC |

You're
Invited!



Estuary Science Exchange

featuring Dr. Michael J. Osland
of the U.S. Geological Survey's
Wetland and Aquatic
Research Center

"Beyond just sea-level rise: the
influence of climate on coastal
wetlands in Texas"

Friday, May 16
11:00 a.m. – 12:00 p.m. CDT
Microsoft Teams



Please email melissa.lupher@TWDB.texas.gov to RSVP.

Contact Information

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