# Texas Water Development Board ASR & AR Program Overview & Update

Andrea Croskrey, ASR Discipline Lead

Wednesday September 13, 2023 **Groundwater Protection Council Annual Forum** Tampa, Florida

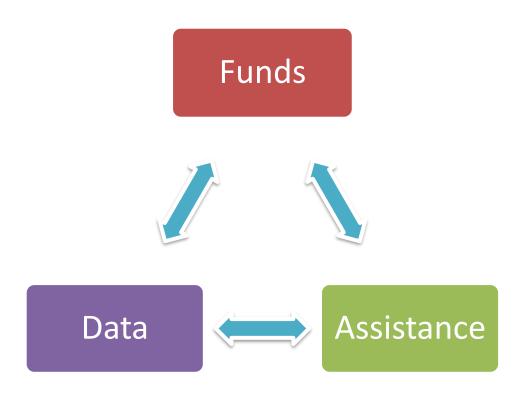


#### "lead the state's efforts in ensuring a secure water future for Texas and its citizens"

- Water data, experts
- Water supply and flood plans
  - Regional: 16 water, 15 flood
  - Statewide
- New infrastructure
  - Water supply
  - Flood

www.twdb.texas.gov

Wastewater





#### TWDB ASR Program

- Water Science and Conservation Office
  - Conservation and Innovative Water Technologies Division
- Resources, scope, and staffing wax and wane with mandates
- Currently 2 staff and 1 vacancy, no research funds



## 1980-1990s, \$\$\$ not staff



1987-1992, Partially funded studies for Kerrville

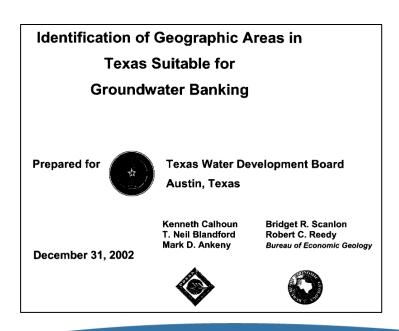


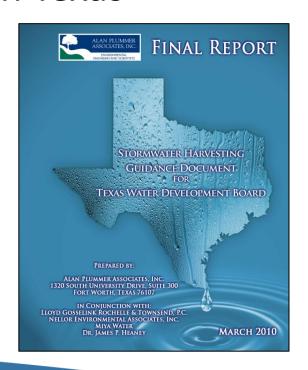
- HB 1989 in 1995 by 74<sup>th</sup> Legislature
  - Among other actions, authorized pilot projects
  - TWDB, federal, and in-kind support of \$877,000
  - Brownsville completed in 1997; TWDB funded \$342,000
  - Laredo completed in 1999; TWDB funded \$299,000
  - Sabine River Authority completed in 1999; TWDB funded \$36,000
    - San Antonio completed in 1998; TWDB funded \$200,000



## 2000-2011, contracted reports

- 2002 Groundwater banking report for water plans
- 2010 Stormwater potential for water plans
  - 2011 Assessment of ASR in Texas





#### An Assessment of Aquifer Storage and Recovery in Texas



#### Report

by Malcolm Pirnie, Inc ASR Systems, LLC Jackson, Sjoberg, McCarthy & Wilson, LLP

#### In Cooperation with

El Paso Water Utilities Board City of Kerrville, Texas San Antonio Water System



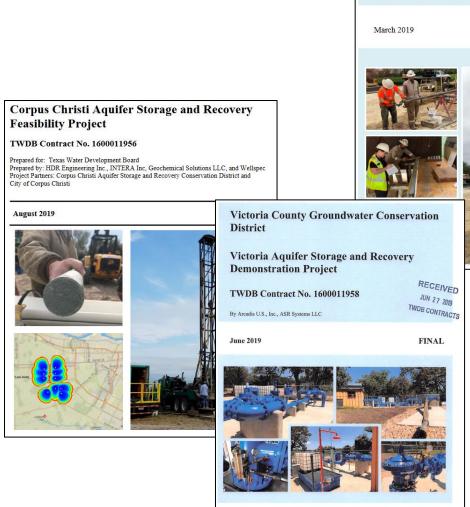




## 2013-2018, staff + grants

- 2013: ½ time staff started
- 2015: House Bill 1, Rider 25
  - \$1M Grant
  - Corpus Christi ASR Feasibility
  - New Braunfels ASR Demonstration
  - Victoria ASR Demonstration





New Braunfels Utilities: Aquifer Storage and Recovery

Demonstration Project
TWDB Contract No. 1600011957

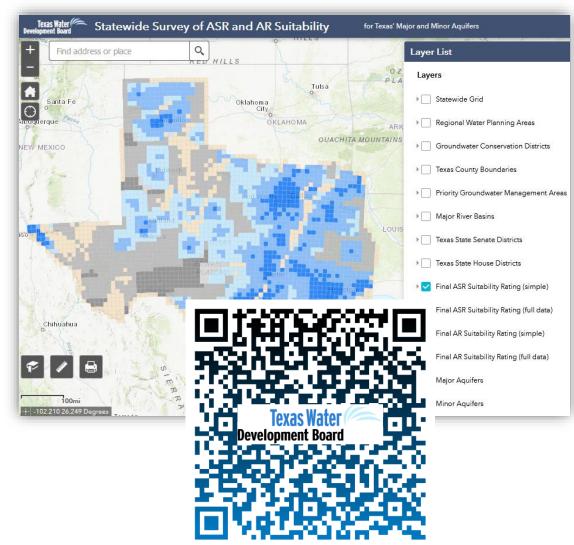
By Arcadis U.S., Inc., ASR Systems LLC, INTERA Incorporated

FINAL

## 2019-2020, staff +survey

- 2019: House Bill 721
  - 3 full time positions
  - Funding for a survey of ASR or AR suitability
- 2020: Statewide survey of aquifer suitability for ASR or AR projects in Texas

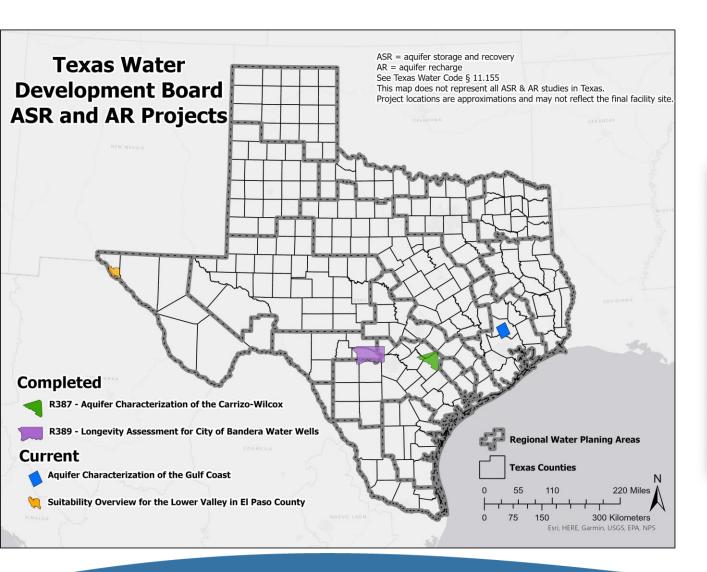








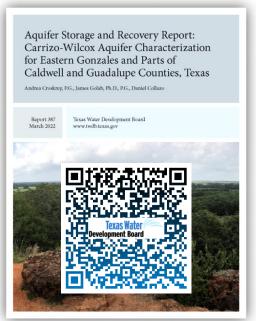
#### 2020 to present

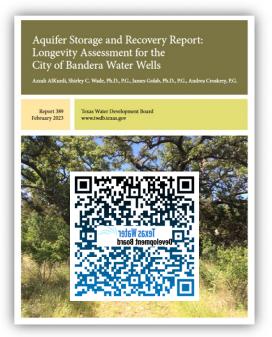


Completed:

Report 387 & Report 389

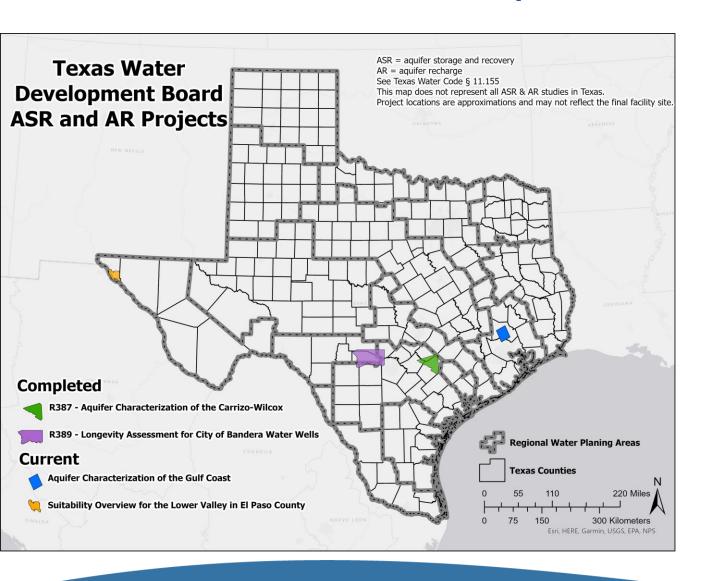
**Development Board** 







### 2020 to present, continued



- Lower Valley Water District
  - Hueco aquifer in El Paso County
  - Analysis complete, writing
- San Jacinto River Authority
  - Gulf Coast aquifer mostly in Montgomery County
  - On hold for position backfill
- Summary of Edwards and Trinity aquifer MAR in Texas

## Going forward?



www.twdb.texas.gov

### Goals, Mandate, & Plans

#### Goals

- Disseminate information through public education
- Consolidate and map all available study materials
- Facilitate the application of best practices among entities considering aquifer storage and recovery

#### **Plans**

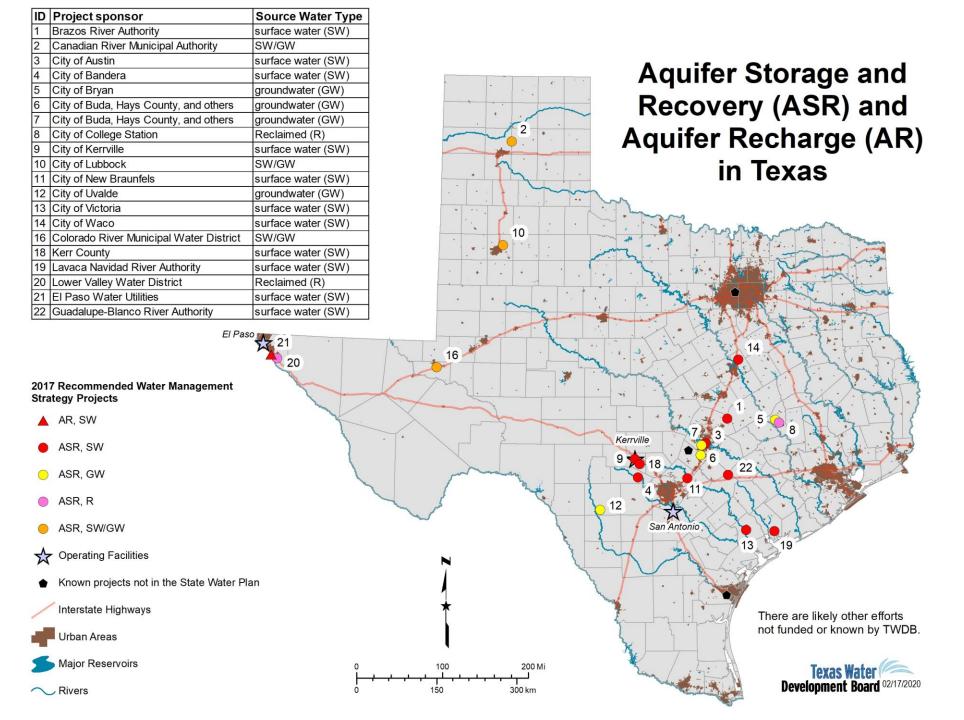
- Known MAR planning in TX:
  - 9 authorized or pilot testing
  - 35 in various planning stages
- MAR accounts for over 2.5% of planned new water supplies by 2070 (2022 State Water Plan)

#### Mandate

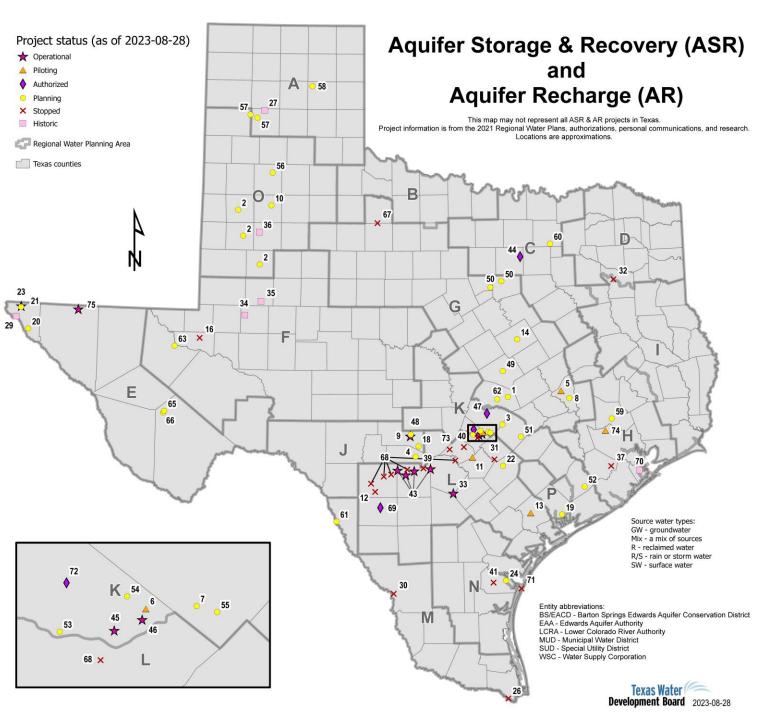
- Texas Water Code §11.155
- Conduct ASR or AR studies
- Work with and report the results to water planners, engineers, government officials, and other appropriate interested persons that may be investigating the development of ASR and AR projects within Texas.







- Presented at 2020
   GWPC UIC
   conference in San
   Antonio
- Based on 2017
   State Water Plan



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#### TWDB ASR & AR Program

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