



Trinity River Authority

*Enriching the Trinity  
basin as a resource  
for Texans*

- ▶ WASTEWATER TREATMENT
- ▶ WATER TREATMENT
- ▶ RESERVOIRS
- ▶ RECREATION



# PROVIDING REGIONAL WATER AND WASTEWATER SERVICES

The Trinity River Authority of Texas is in a universal business. Water and wastewater services are central to every facet of life. Created by the state legislature in 1955, TRA is a conservation and reclamation district that provides water and wastewater treatment, along with recreation and reservoir facilities, for cities within the nearly 18,000-square-mile Trinity River basin.

TRA has carved out a niche to become the largest wholesale provider of wastewater treatment services in Texas. Solid business practices help TRA shape its present and its future by being fiscally conservative while making strategic improvements that help move the wastewater and water industry forward.

Realizing that water is a finite commodity, TRA's Central Regional Wastewater System operates the largest urban water reclamation and reuse program in Texas. Recycled water from the plant fills the Las Colinas, Texas, canals and also is used for the irrigation of numerous area golf courses.

Wastewater cleaned by TRA's award-winning wastewater treatment facilities flows into the Trinity River, and our superior treatment processes help improve the ecosystem of the river, making it a more sustainable habitat.

## Our Core Values:

**INTEGRITY • EXCELLENCE • ACCOUNTABILITY •  
TEAMWORK • PROFESSIONALISM**



# WASTEWATER TREATMENT

## CENTRAL Regional Wastewater System

 DALLAS

TRA's Central Regional Wastewater System began operations in 1959 as the first regional facility of its kind, serving Irving, Grand Prairie and Farmers Branch, plus a portion of western Dallas. The system has since expanded to serve all or part of 20 cities in the Dallas/Fort Worth metroplex, as well as the Dallas/Fort Worth International Airport.

This regional treatment facility is one of the largest and best-operated plants in Texas. The plant uses state-of-the-art technology throughout the treatment process to produce clean, clear effluent that removes greater than 99.9 percent of all conventional pollutants from raw wastewater before it is sent on its way down the Trinity.

## TEN MILE CREEK Regional Wastewater System

 FERRIS

The Ten Mile Creek Regional Wastewater System began service in 1970, providing service in southern Dallas and northern Ellis counties. Contracting parties include the cities of Cedar Hill, DeSoto, Duncanville, Ferris and Lancaster.

## DENTON CREEK Regional Wastewater System

 ROANOKE

The Denton Creek Regional Wastewater System, located north of Roanoke, first began treating wastewater flows in 1990. This state-of-the-art wastewater treatment plant serves an area of approximately 170 square miles, encompassing portions of the cities of Roanoke, Southlake, Keller, Haslet, and Fort Worth, plus the Circle T Municipal Utility Districts No. 1 and 3, and the towns of Flower Mound, Westlake, Northlake and Argyle. DCRWS also provides wastewater service for the Alliance Airport and the Texas Motor Speedway.

## RED OAK CREEK Regional Wastewater System

 WAXAHACHIE

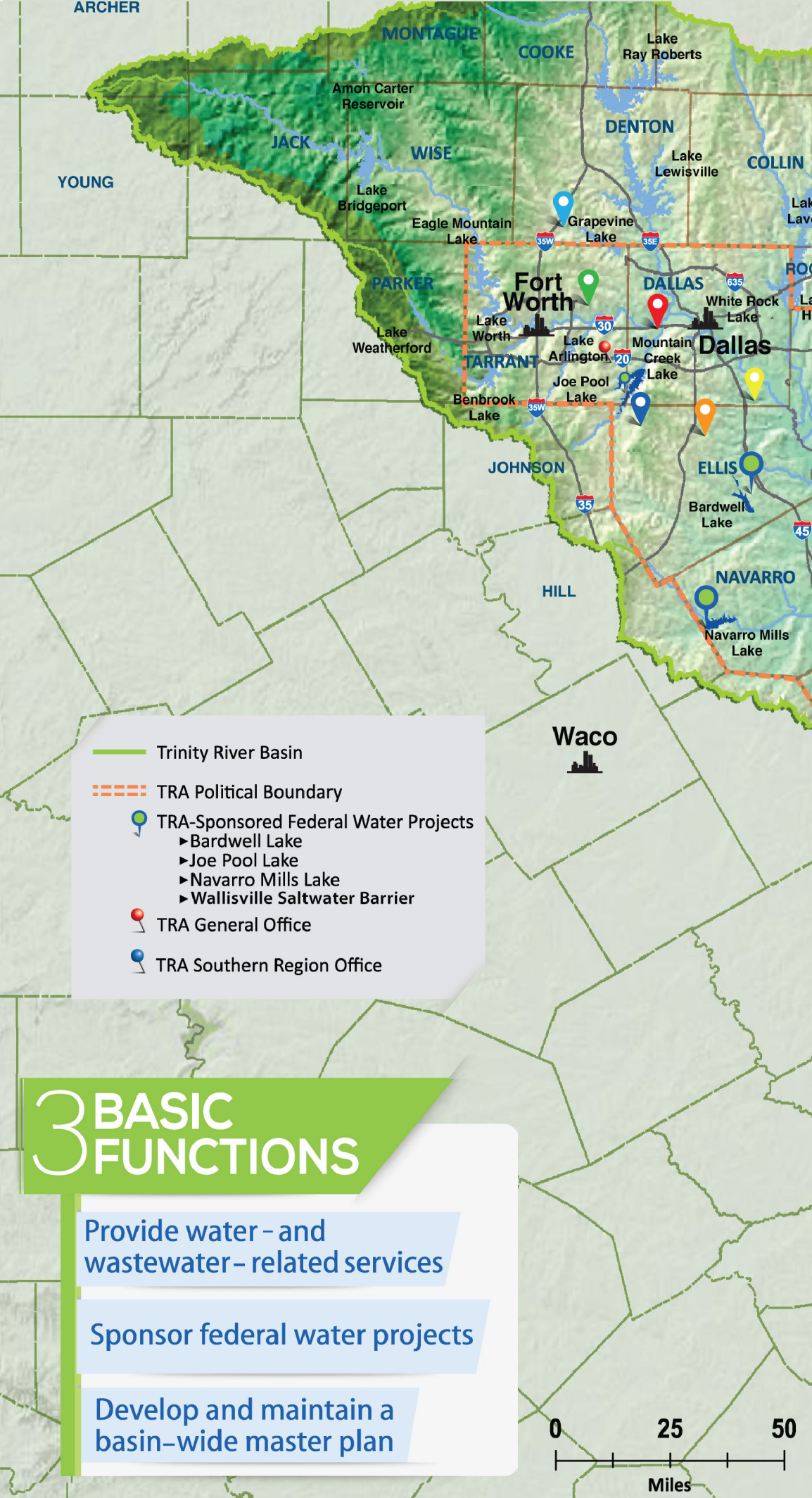
The Red Oak Creek Regional Wastewater System provides wastewater treatment services for the cities of Cedar Hill, DeSoto, Glenn Heights, Lancaster, Ovilla, and Red Oak, all located in northern Ellis County. It began operations in 1991.

## MOUNTAIN CREEK Regional Wastewater System

 MIDLOTHIAN

Mountain Creek Regional Wastewater System began providing services to the cities of Midlothian and Grand Prairie in 2005, Venus in 2009 and to Mansfield in 2015. Treated effluent is discharged to a small, unnamed tributary stream that makes its way to Padera Lake and, ultimately, into Joe Pool Lake. MCRWS was TRA's second project to use ultraviolet light disinfection, an innovative technology that benefits the environment and improves effluent quality.





-  Trinity River Basin
-  TRA Political Boundary
-  TRA-Sponsored Federal Water Projects
  - ▶ Bardwell Lake
  - ▶ Joe Pool Lake
  - ▶ Navarro Mills Lake
  - ▶ Wallisville Saltwater Barrier
-  TRA General Office
-  TRA Southern Region Office

# 3 BASIC FUNCTIONS

Provide water - and wastewater - related services

Sponsor federal water projects

Develop and maintain a basin-wide master plan





FANNIN

# Trinity River Basin

TRA delivers its primary services through regional water and wastewater treatment facilities throughout the Trinity River basin. We are an industry leader when it comes to designing, building and operating state-of-the-art regional treatment facilities. Our facilities are recognized across the nation for operational excellence and for the value they offer to our customers.

KWALL

Ray  
bbard

KAUFMAN

Tyler



Cedar Creek Reservoir

HENDERSON

Richland Chambers Reservoir

Fairfield Lake

ANDERSON

FREESTONE

Houston County Lake

LEON

HOUSTON

TRINITY

MADISON

WALKER

Lake Livingston

Wolf Creek Park

LLP

Sam Houston National Forest

SAN JACINTO

POLK

GRIMES

Trinity River

MONTGOMERY

LIBERTY

Houston



Wallisville Saltwater Barrier

CHAMBERS

Trinity Bay



# TARRANT COUNTY

Water Supply Project



EULESS

TRA's Tarrant County Water Supply Project provides drinking water to the cities of Bedford, Colleyville and Euless, along with portions of Grapevine and North Richland Hills. It began operations in 1974.

# HUNTSVILLE

Regional Water Supply System



HUNTSVILLE

The Huntsville Regional Water Supply System, which began operations in 1980, provides service for a population of approximately 44,000 – 39,000 in the city of Huntsville and 2,500 each at the Ellis and Estelle Texas Department of Criminal Justice prison units. Tenaska Frontier Partners Power Plant is also a customer of Huntsville.

# LIVINGSTON

Regional Water Supply System



LIVINGSTON

TRA supplies water to residents of the city of Livingston through the Livingston Regional Water Supply System. Water is also provided to the Polunsky Unit of the Texas Department of Criminal Justice and the IAH Detention Facility. The LRWSS serves a population of approximately 13,000. It began operations in 1981.

# TRINITY COUNTY

Regional Water Supply System



TRINITY

The Trinity County Regional Water Supply System provides drinking water to the city of Trinity. Trinity provides water to Glendale Water Supply Corporation. TCRWSS began operations in 1983.

## RESERVOIRS

Lake Livingston is the largest single-purpose reservoir in Texas. At 83,000 acres and 55 miles long, it also has 455 miles of shoreline. The lake was developed as a joint project between TRA and the city of Houston. Built by TRA, the lake's sole purpose is water supply. Houston has water rights to 70 percent of the lake's available water, and TRA has rights to the remaining 30 percent. The lake also provides water for Polk, San Jacinto, Trinity and Walker counties, and irrigation and municipal water downstream of Lake Livingston in Liberty, Chambers and Jefferson counties is also drawn from the lake. TRA's Lake Livingston Project (LLP) is located at the lake. Two power plants in Freestone and Grimes counties use water from the lake. And the R.C. Thomas Hydroelectric Project, located at Lake Livingston dam, generates power using run-of-the-river flows and releases to meet downstream commitments through the dam. The 24-megawatt hydroelectric plant will generate enough energy to serve approximately 12,000 households.

## RECREATION

Wolf Creek Park is a lush, green oasis on Lake Livingston. Visitors to the park can camp, picnic, fish, spend some time boating or simply enjoy the 110 acres of forested shoreline. This beautiful area, located on the west shore of the lake, is open from March to November.



# LEADERSHIP

TRA is governed by a 25-member board of directors from counties throughout the Trinity River basin. They are appointed by the Texas governor and confirmed by the Texas Senate.

TRA's general manager serves as the chief executive officer, responsible for the organization's day-to-day operations. A team of executive managers reports to the general manager, and the leadership of TRA's facilities is divided into a Northern and Southern Region office, located in Arlington and Huntsville, respectively.

Unlike cities and other similar organizations, TRA does not receive funding from the state. Nor does it receive federal funding or tax revenue monies. Each TRA wastewater and water treatment facility operates as an independent financial body that is supported by its customers based on the services provided.

The Trinity River Authority's mission is to promote conservation, reclamation, protection and development of the natural resources of the river basin for the benefit of the public.

Our vision: The Trinity River Authority of Texas is an innovative, adaptive leader, enriching the Trinity basin as a resource for Texans.





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**Southern Region Office**  
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