

FOX CROSSING WATER DISTRICT  
P.O. Box 15  
MULLIN, TEXAS 76864

August 12, 1998

Texas Water Development Board  
P.O. Box 13231  
1700 N. Congress Avenue  
Austin, Texas 78711-3231

ATTENTION: Bill Mullican - Director

Dear Sir:

Attached is the DRAFT UNDERGROUND WATER MANAGEMENT PLAN for Fox Crossing Water District (Mills County) as required by S.B. # 1, and as revised from the initial submission dated July 21, 1998.

Sincerely,



DALE HENRY, Director  
Fox Crossing Water District

DH:bf

cc: Brazos River Authority  
Lower Colorado River Authority

## FOX CROSSING WATER DISTRICT

### DISTRICT MISSION

Fox Crossing Water District of Mills County, Texas, strives to conserve, preserve, prevent waste and recharge the underground waters of the Trinity Aquifer, and as far as possible to minimize the drawdown of the water table within the DISTRICT's Boundaries.

### TIME PERIOD

#9 This mission and plan becomes and takes effect upon certification by the TWDB and covers a period of at least ten (10) years, extending through the year 2010.

### HISTORY

The Fox Crossing Water District was formed to encompass the territory inside the boundaries of Mills County to benefit the works and projects that are to be accomplished by the DISTRICT. The DISTRICT was formed by Texas Legislature H.B. 2487 and approved by a vote of the residents of Mills County in 1985. In February 1990 a Fox Crossing Water District Regional Water Study was prepared by Haynie & Kalman, Inc. and submitted to the Fox Crossing Water District and the Texas Water Development Board.

## REGIONAL COOPERATION AND COORDINATION

# 12  
The Fox Crossing Water District has entered into agreements with the surrounding water suppliers of Lometa (Lampasas County), Zephyr (Brown County), Brooksmith (Brown County) and Richland Springs (San Saba County) water utilities to facilitate the conservation, and beneficial use of water and related sources. The City of Priddy and the City of Goldthwaite produce and supply underground water from the Trinity Aquifer for their residents with the approval of the Fox Crossing Water District. Additionally, full-time coordination and cooperation has been maintained with the S.B. 1 Lower Colorado Water Planning Group since its inception on a working basis as of March 11, 1998.

### Management of Groundwater Supplies

The DISTRICT will manage the supply of groundwater within the DISTRICT in order to conserve the resource while seeking to maintain the economic viability of all resource user groups, public and private. In consideration of the economic and cultural activities occurring within the DISTRICT, the DISTRICT will identify and engage in such activities and practices, that if implemented would result in a reduction of groundwater use. An observation network shall be established and maintained in order to monitor changing storage conditions of ground water supplies within the DISTRICT. The DISTRICT will make regular assessment of water supply and groundwater storage conditions and report those conditions to the Board and to the public. The DISTRICT will undertake, as necessary and co-operate with investigations of the groundwater resources within the DISTRICT and will make the results of investigations available to the public upon adoption by the Board.

The DISTRICT will adopt rules to regulate groundwater withdrawals by means of spacing and reproduction limits. The DISTRICT may deny a well construction permit or limit groundwater withdrawals in accordance with the guidelines stated in the rules of the DISTRICT. In making a determination to deny a permit or limit groundwater withdrawals, the DISTRICT will consider the public benefit against individual hardship after considering all appropriate testimony.

The relevant factors to be considered in making a determination to deny a permit or limit groundwater withdrawals will include:

- 1) The purpose of the rules of the DISTRICT
- 2) The equitable distribution of the resource
- 3) The economic hardship resulting from grant or denial of a permit or the terms prescribed by the permit

In pursuit of the DISTRICTS mission of protecting the resource, the DISTRICT may require reduction of groundwater withdrawals to amounts, which will not cause harm to the aquifer. To achieve this purpose, the DISTRICT may, at the Boards discretion amend

or revoke any permits after notice and hearing. The determination to seek the amendment or revocation of a permit by the DISTRICT will be based on aquifer conditions observed by the DISTRICT. The DISTRICT will enforce the terms and conditions of permits and the rules of the DISTRICT by enjoining the permit holder in a court of competent jurisdiction as provided for in TWC '36.102.

A contingency plan to cope with the effects of water supply deficits due to climatic or other conditions will be developed by the DISTRICT and will be adopted by the Board after notice and hearing. In developing the contingency plan, the DISTRICT will consider the economic effect of conservation measures upon all water resource user groups, the local implications of the degree and effect of changes in water storage conditions, the unique hydrogeologic conditions of the aquifers within the DISTRICT and the appropriate conditions under which to implement the contingency plan.

The DISTRICT will employ all technical resources as its disposal to evaluate the resources available within the DISTRICT and to determine the effectiveness of regulatory or conservation measures. A public or private user may appeal to the Board for discretion in enforcement of the provisions of the water supply deficit contingency plan on grounds of adverse economic hardship or unique local conditions. The exercise of said discretion by the Board, shall not be construed as limiting the power of the Board.

#### Actions, Procedures, Performance and Avoidance for Plan Implementation

The DISTRICT will implement the provisions of this plan and will utilize the provisions of this plan as a guidepost for determining the direction or priority for all DISTRICT activities. All operations of the DISTRICT, all agreements entered into by the DISTRICT and any additional planning efforts in which the DISTRICT may participate will be consistent with the provisions of this plan.

The DISTRICT will adopt rules relating to their permitting of wells and the production of groundwater. The rules adopted by the DISTRICT shall be pursuant to TWC '36 and the provisions of this plan. All rules will be adhered to and enforced. The promulgation and enforcement of the rules will be based on the best technical evidence available.

The DISTRICT shall treat all citizens with equality. Citizens may apply to the DISTRICT for discretion in enforcement of the rules on grounds of adverse economic effect or unique local conditions. In granting of discretion to any rule, the Board shall consider the potential for adverse effect on adjacent landowners. The exercise of said discretion by the Board, shall not be construed as limiting the power of the Board.

The DISTRICT will seek the cooperation in the implementation of this plan and the management of groundwater supplies within the DISTRICT. All activities of the DISTRICT will be undertaken in co-operation and co-ordinated with the appropriate state, regional or local water management entity.

### Methodology for Tracking District Progress in Achieving Managements Goals

The DISTRICT manager will prepare and present an annual report to the Board of Directors on DISTRICT performance in regards to achieving management goals and objectives. The presentation of the report will occur during the last monthly Board meeting each fiscal year, beginning September 1, 1999. The report will include the number of instances in which each of the activities specified in the DISTRICTS management objectives was engaged in during the fiscal year. Each activity will be referenced to the estimated expenditure of staff time and budget in accomplishment of the activity. The notations of activity frequency, staff time and budget will be referenced to the appropriate performance standard for each management objective describing the activity, so that the effectiveness and efficiency of the DISTRICTS operations may be evaluated. The Board will maintain the report on file, for public inspection at the DISTRICTS offices upon adoption. This methodology will apply to all management goals contained within this plan.

MANAGEMENT GOALS, OBJECTIVE  
AND  
PERFORMANCE STANDARDS

**Goal 1.0** Implemented management strategies that will protect and enhance the quantity of usable quality water by encouraging the most efficient use of groundwater.

**Management Objectives**

1.1 Annually the DISTRICT will provide education to the residents of the Fox Crossing Water District on the efficient use of groundwater by serving as speakers on at least two occasions, by speaking to local service clubs, schools, business groups and rural residents. At least two functions will be addressed at each group annually.

**Performance standard**

1.1 Annually a member of the District Board will meet at least one time with, the Lions Club, Goldthwaite City Council, County Commissioners Court and the Soil Conservation District Board.

**Goal 2.0** Implement a program to protect the quality of the aquifer by collecting and recycling waste oil and used oil filters.

**Management Objective**

2.1 The DISTRICT will establish at least two (2) additional sites for re-cycling and collection of containers that have been used for hydrocarbons pesticides, and fertilizer type materials by January 2007.

**Performance Standard**

2.1 The DISTRICT will establish two (2) additional re-cycling sites by January 2007.

**Goal 3.0** Implement a program to investigate in a timely manner reports of the waste of groundwater.

**Management Objective**

3.1 The DISTRICT will implement a program to invest all reports of groundwater waste by January 2003.

**Performance Standard**

3.1 The DISTRICTS program will be implemented by January 2003.

**Goal 4.0** Develop a water quality monitoring network for the purpose of establishing the baseline water quality throughout the DISTRICT.

Management Objective

4.1 The DISTRICT will establish a program to monitor the City of Goldthwaite and the City of Priddy reports on water quality by January 2001.

Performance Standard

4.1 The DISTRICT water quality monitoring program will be established by January 2001.

**Goal 5.0** Address natural resource issues which impact the use and availability of groundwater and which are impacted by the use of groundwater in the DISTRICT.

Management Objective

5.1 Annually the DISTRICT will cause at least one (1) article to be published in the Goldthwaite Eagle addressing the importance of reducing BRUSH cover to increase groundwater recharge.

Performance Standard

5.1 Annually at least one newspaper article on reducing BRUSH cover will be published.

Management Objective

5.2 Encourage the contraction of in- channel dams on the smaller creeks, draws, and streams in the DISTRICT plus rivers of major size.

Performance Standard

5.2a Contact LIRA by the year 2000 with an appeal to initiate a program of in-channel dams on the major streams.

5.2b Contact the County Soil Water Conservation District in 1999 in regards to the possibility of increasing the storage in the existing structures with only 200 acre-feet windows at the present time. Annually encourage the construction of private and public reservoirs with the intent to recharge the ground aquifer.

MANAGEMENT GOALS NOT APPLICABLE  
TO THE DISTRICT

- 1) The control and prevention of subsidence.
- 2) Addressing conjunctive surface water management issues.

**FOX CROSSING WATER DISTRICT  
MANAGEMENT PLAN**

(Groundwater)

This plan will take effect upon certification by the TWDB and cover a period of at least ten (10) years extending through the year 2010.

**EXISTING TOTAL USABLE AMOUNT OF GROUNDWATER**

#1

The existing amount of groundwater within the DISTRICT is 2760 acre-feet. This estimate was derived from data contained in "WATER FOR TEXAS" TWDB 1997.

#2

**ESTIMATE OF THE AMOUNT OF  
GROUNDWATER BEING USED WITHIN  
THE DISTRICT ANNUALLY**

The amount of groundwater being used on an annual basis within the DISTRICT is 1032 acre-feet per year. This estimate is derived from data contained in "WATER FOR TEXAS" TWDB 1997.

ESTIMATE OF ANNUAL AMOUNT OF  
NATURAL RECHARGE

# 3

The amount of natural groundwater recharge occurring annually is estimated to be 465 acre-feet per year. This estimate is derived from data contained in "WATER FOR TEXAS" TWDB 1997.

AMOUNT OF ADDITIONAL RECHARGE  
THAT WOULD BE REALIZED FROM  
IMPLEMENTATION OF  
FEASIBLE METHODS

# 4

The amount of addition recharge per acre of land cleared gained from clearing land with 40% grass and 60% brush to 70% grass and 30% BRUSH will be 0.03 acre feet. With the application of this brush management program on 250,000 acres, then the following additional recharge might be gained:  
250,000 acres (number of acres cleared)  
0.03 acre feet (additional recharge) will  
yield 7500 acre-feet\* additional recharge gained.

\* How an Increase or Reduction in Juniper Cover Alters Rangeland Ecology", by Thomas L. Thurow and Justin W. Hester, 1997 Juniper Symposium, Technical Report 97-1, Texas A&M Research and Extension Service.

PROJECTED WATER SUPPLIES  
WITHIN THE DISTRICT

# 5

Projected water supply in the year 2010 is projected to be 2760 acre-feet. This estimate was derived from 'WATER FOR TEXAS' TWDB 1997.

PROJECTED WATER DEMANDS  
WITHIN THE DISTRICT

# 6

The projected water demands in year 2010 is estimated to be 1235 acre-feet. This estimate is derived from "WATER FOR TEXAS" TWDB 1997

# FOX CROSSING WATER DISTRICT

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## BOARD OF DIRECTORS

THURMAN HEAD  
WAYNE WILCOX

PAC HAMBLIN

BILLY HALE  
DALE HENRY

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August 31, 1998

Texas Water Development Board  
P.O. Box 13231  
1700 N. Congress Avenue  
Austin, Texas 78711-3231

Attn: Craig Pederson  
Executive Director

Dear Sir:

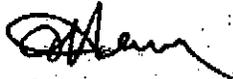
Attached is the County Clerk attested Fox Crossing Water District Resolution to adopt the Fox Crossing Underground Water Management plan as required by SB #1 and as prepared in conjunction with the TWDB for presentation to the TWDB by September 1, 1998.

Verbal acceptance of the Fox Crossing plan was received from the TWDB on 8/20/98. Immediately a public hearing was scheduled to match the posting/printing in the weekly local paper - The Goldthwaite Eagle. The public meeting was held at 7:00 p.m. on the 28th day of August, 1998.

The Fox Crossing Water District Board - having received no opposing comments - immediately adopted the plan by resolution.

A copy of the resolution, along with other necessary documents, is enclosed.

Sincerely,



Dale Henry  
Chairman,  
Fox Crossing Water District

DH:mk

Enclosure: 19 pages

# FOX CROSSING WATER DISTRICT

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## BOARD OF DIRECTORS

THURMAN HEAD  
WAYNE WILCOX

BILLY HALE  
DALE HENRY

PAC HAMBLEN

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## RESOLUTION

BE IT REMEMBERED at a meeting of the Board of Directors of the Fox Crossing Water District of Mills County, Texas, held on the 28th day of August, 1998, the following resolution was approved:

WHEREAS the Fox Crossing Water District Board of Directors entered into planning efforts as required by SB #1 and in conjunction with the Texas Water Development Board; and

WHEREAS the Fox Crossing Water District Board of Directors has reviewed the developed plan which has met with the Texas Water Board requirements and has been approved by the Texas Water Development Board, this plan is now adopted;

WHEREAS the Fox Crossing Water District Board of Directors coordinated in the development of its plan with surface management entities in Mills County.

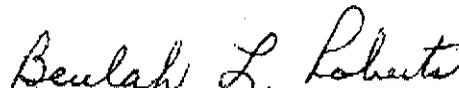
WHEREAS no public comments opposing the plan was presented.

NOW IT IS RESOLVED at the public hearing held on August 28, 1998 at 7:00 a.m. by the Fox Crossing Board of Directors that the plan as prepared and presented by the Board is adopted.

ORDERED this 28th day of August, 1998.



Dale Henry, Chairman  
Fox Crossing Water District



BEULAH L. ROBERTS  
COUNTY CLERK, MILLS COUNTY, TEXAS

Thursday, August 27, 1998 - The Goldthwaite Eagle-Mullin Enterprise

**NOTICE OF  
PUBLIC HEARING**  
*Fox Crossing Water District*  
Jury Room, 2nd Floor  
Mills County Courthouse  
7:00 p.m.  
**August 28, 1998**

The Fox Crossing Water District will hold a Public Hearing on a proposed Underground Water Management Plan as required by Senate Bill #1 and the Texas Water Development Board.

Thursday, August 27, 1998 - The Goldthwaite Eagle-Mullin Enterprise - Page 7

### Fox Crossing Board lists agenda for called meeting

The Fox Crossing Board of Directors will hold a called meeting to coincide with a published, posted notice of a Public Hearing

This Special Meeting is set for Friday, August 28, 1998 at 7:00 p.m. in the Jury Room of the Mills county Courthouse in Goldthwaite, Texas, to consider the following:

- Agenda**
1. Opening prayer
  2. Approval of previous minutes
  3. Public Hearing on the proposed Underground Water Management Plan for the District.
  4. Adopt, formalize, and prepare all documents as required by the TWDB for the proposed Underground Water Management Plan
  5. Adjournment.



August 24, 1998

Mr. Dale Henry  
Fox Crossing Water District  
P.O. Box 483  
Goldthwaite, TX 76844

Dear Dale:

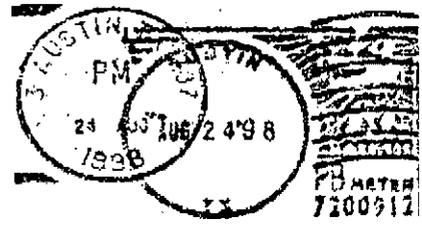
Thank you for the opportunity for the Lower Colorado River Authority to review the Fox Crossing Water District's draft underground water management plan. The LCRA applauds the District's goal of protecting the limited groundwater supplies in Mills County and looks forward to working with the District to meet all the future water needs of its citizens.

If I can provide any additional information, please feel free to contact me at 1-800-776-5271, ext. 4064.

Sincerely,

Quentin W. Martin, Ph.D., P.E.  
Chief Water Resources Planner

H33D



Mr. Dale Henry  
Fox Crossing Water District  
P.O. Box 483  
Goldthwaite, TX 76844

# City of Goldthwaite Utilities

1218 FISHER STREET - P. O. BOX 450

GOLDTHWAITE, TEXAS 76844

915-648-3186

*Electric -- Water -- Wastewater*

OFFICE OF  
DALE ALLEN  
UTILITIES MANAGER

August 28, 1998

Fox Crossing Water District  
P. O. Box 483  
Goldthwaite, Texas 76844

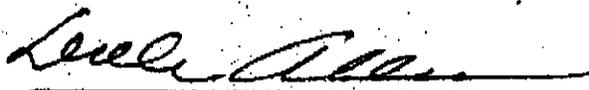
Dear Sir:

After reviewing the Underground Water Management Plan, we feel that if this plan can be implemented, it would be a great asset to Goldthwaite and Mills County for our future water needs.

The City of Goldthwaite has wells and surface water and we understand the need for control of underground water and surface water.

We are fortunate to have an organization like the Fox Crossing Water District in our county and will work with them in anyway possible.

Sincerely,



Dale Allen  
City Manager  
City of Goldthwaite