

# 2002-483-435 FINAL REPORT

*South Central Texas Regional Water Planning Area*

## *Infrastructure Financing Report*

Prepared for:

***Texas Water Development Board***

Prepared by:

**South Central Texas Regional Water Planning Group**

With administration by:

**San Antonio River Authority**

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*With technical assistance by:*

**HDR**

HDR Engineering, Inc.  
Moorhouse Associates, Inc.  
Open Forum

*May 2002*

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## **Section 1 Introduction**

### **1.0 Introduction**

Senate Bill 2 of the 77<sup>th</sup> Texas Legislature, requires that an Infrastructure Financing Report (IFR) be incorporated into the regional water planning process. In order to meet this requirement, each regional water planning group (RWPG) is required to examine the funding needed to implement the water management strategies and projects identified and recommended in the region's January 2001 Regional Water Plan. Results of this effort are due to the Texas Water Development Board (TWDB) by June 1, 2002. The TWDB will consolidate the reports from the 16 regional water planning areas and report to the Texas Legislature no later than October 1, 2002.

To facilitate the RWPG's completion of the statutory directive, the TWDB has prepared guidelines, and a schedule, as follows:

- September 21, 2001      Regions request funds from TWDB
  - October 17, 2001      TWDB consider requests for funds
  - June 1, 2002          RWPG submittal of reports to TWDB
  - October 1, 2002      TWDB submittal of report to Legislature

## **Section 2 Objectives**

### **2.0 Objectives**

The primary objectives of the Infrastructure Financing Report are as follows:

- To determine the number of political subdivisions with identified needs for additional water supplies that will be unable to pay for their water infrastructure needs without some form of outside financial assistance.
- To determine how much of the infrastructure costs in the regional water plans cannot be paid for solely using local utility revenue sources.
- To determine the financing options proposed by political subdivisions to meet future water infrastructure needs (including the identification of any State funding sources considered).
- To determine what role(s) the RWPGs propose for the State in financing the recommended water supply projects.

## **Section 3**

### **Methods and Procedures**

#### **3.0 Methods and Procedures**

There are two elements to the Infrastructure Financing Report, as follows: (1) Surveys, and (2) RWPG policy recommendations on the State's role in financing water infrastructure projects. For the South Central Texas Regional Water Planning Area, all water user groups and major water providers having water needs and recommended water management strategies in the 2001 Regional Water Plan were surveyed using the questionnaire provided by the TWDB. See Appendix A for an example survey package including a cover letter, pertinent information from the Regional Water Plan, and the TWDB form. For the water user groups based on county aggregates, such as livestock or mining, where no political subdivision is responsible for the provision of water supplies, the SCTRWPG has included summary recommendations of funding mechanisms for meeting those needs. In counties with County-Other water user groups having needs, County Judges were surveyed.

The survey was mailed via first class U.S. Mail, with 2 follow-up telephone contacts with each political subdivision surveyed that did not respond by the due date. The follow-up activity is documented via phone call log (Appendix B).

Two meetings were conducted for survey recipients to provide background and financial information regarding the Infrastructure Finance Survey, and to respond to questions. The first meeting was on December 5, 2001 at the OMNI Colonnade Hotel in San Antonio for County Judges and Mayors of the region. The meeting was scheduled through the Alamo Area Council of Governments (ACOG), and was one agenda item of the ACOG meeting. Maggie Moorhouse with Moorhouse Associates, Inc. presented an overview of the purpose and scope of the survey and Mr. Herb Grubb with HDR Engineering, Inc. provided information about how the cost estimates in the survey were prepared as well as how the survey recipients were determined. Approximately fifteen Judges and mayors were present for the discussion. Representatives from SAWS, SARA, GBRA and Bexar-Met were available for follow-up questions, and after the meeting, Ms. Moorhouse received several requests for more information. Feedback from this meeting indicated that it provided introduction and background information that was helpful to several of the county survey recipients.

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The second meeting was conducted on December 13, 2001 in San Antonio at the boardroom of the San Antonio River Authority. All survey recipients were invited to the meeting, however the focus of the meeting was for mayors and municipal water user groups. Ms. Moorhouse and Mr. Grubb again provided the program. Representatives from SAWS, Bexar-Met and the San Antonio River Authority also attended the meeting and were available to answer questions. Ten persons attended the meeting with representatives from Floresville, Fair Oaks Ranch, City of Live Oak, City of Leon Valley, City of Castle Hills, Shavano Park, Universal City, Canyon Regional Water Authority and Randolph Air Force Base. Feedback from the meeting was positive and attendees indicated that the meeting was helpful in regards to providing meaningful survey responses.

For the second element of the IFR, pursuant to Senate Bill 2 of the 77<sup>th</sup> Texas Legislature, the SCTRWPG has developed policy recommendations responsive to the following question:

*What is the proper role(s) for the State in financing water supply projects identified in the approved regional water plan?*

The SCTRWPG gave particular attention to proposed increases in the level of **State Participation** in funding for regional water supply projects to meet needs beyond the reasonable financing capability of local governments, regional authorities, and other political subdivisions involved in building water infrastructure.<sup>1</sup>

Prior to submission of the Infrastructure Financing Report (IFR) to the TWDB, the SCTRWPG adopted the IFR at a meeting posted and held in accordance with the Texas Open Meetings Act with a copy of all materials presented or discussed available for public inspection prior to and following the meeting.

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<sup>1</sup> The State Participation Program enables TWDB to purchase a temporary ownership interest in a regional project when local sponsors are unable to assume the debt for an optimally sized facility. TWDB may acquire ownership interests in the water rights or a co-ownership interest in the property or treatment works. Currently, TWDB's participation is limited to a maximum of 50 percent of the project costs and to the portion of the project designated as "excess" capacity. There is also a requirement that the project cannot be reasonably financed without state participation assistance, and that the optimum regional development of the project cannot be reasonably financed without the state participation.

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## **Section 4 Results**

### **4.1 Survey Responses**

The SCTRWPG distributed survey packages to 48 municipal water user groups and received 41 responses, an 85 percent response rate. Copies of the completed surveys are included in Appendix E. As shown in Figure 1 and Table 1, definitive survey responses account for about 81 percent of the estimated capital costs of water management strategies recommended in the Regional Water Plan. Aggregated responses indicate that between 71 percent and 90 percent of the estimated costs of water management strategies in the Regional Water Plan cannot be funded solely by local revenue sources, even with State Participation. Hence, \$3.1 billion to \$3.9 billion in the form of outside financial assistance may be necessary to meet water infrastructure needs through year 2050.

Only four (Boerne, Lockhart, Schertz, and Universal City) of the municipal water user groups surveyed indicated that local utility revenue sources, through State Participation, could possibly pay for water management strategies to meet their projected needs. Following is a brief summary of responses from the six Major Providers identified in the 2001 Regional Water Plan:

#### San Antonio Water System (SAWS)

- SAWS and other municipalities will have to meet projected water needs, and need to fund the projects to meet these needs. However, SAWS' currently authorized rates will only support short term projects; e.g.; current rates authorized by City Council are adequate to pay for about 10 percent of estimated capital costs for recommended water management strategies using local utility revenue sources.
- Local revenue sources are primarily committed to Demand Reduction (Conservation), Aquifer Storage & Recovery, the Recycled Water Program, and Short Term Projects.
- SAWS will be actively seeking federal and state dollars to lessen the rate impacts to its customers.

#### Bexar Metropolitan Water District (BMWD)

- May be able to pay for about 25 percent to 50 percent of estimated capital costs for recommended water management strategies using local utility revenue sources and depending upon opportunities for State Participation.
- BMWD will be seeking state and federal funding mechanisms and exploring all financing options to provide the lowest costs to its customers.



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City of New Braunfels / New Braunfels Utilities

- Response indicates that recommended Demand Reduction (Conservation) will be funded using local utility revenue sources while outside financial assistance will be sought for other recommended water management strategies.

City of San Marcos

- No response received to-date.

Guadalupe-Blanco River Authority (GBRA)

- No response requested. Surveyed through municipal customers and/or county representatives.

Canyon Regional Water Authority (CRWA)

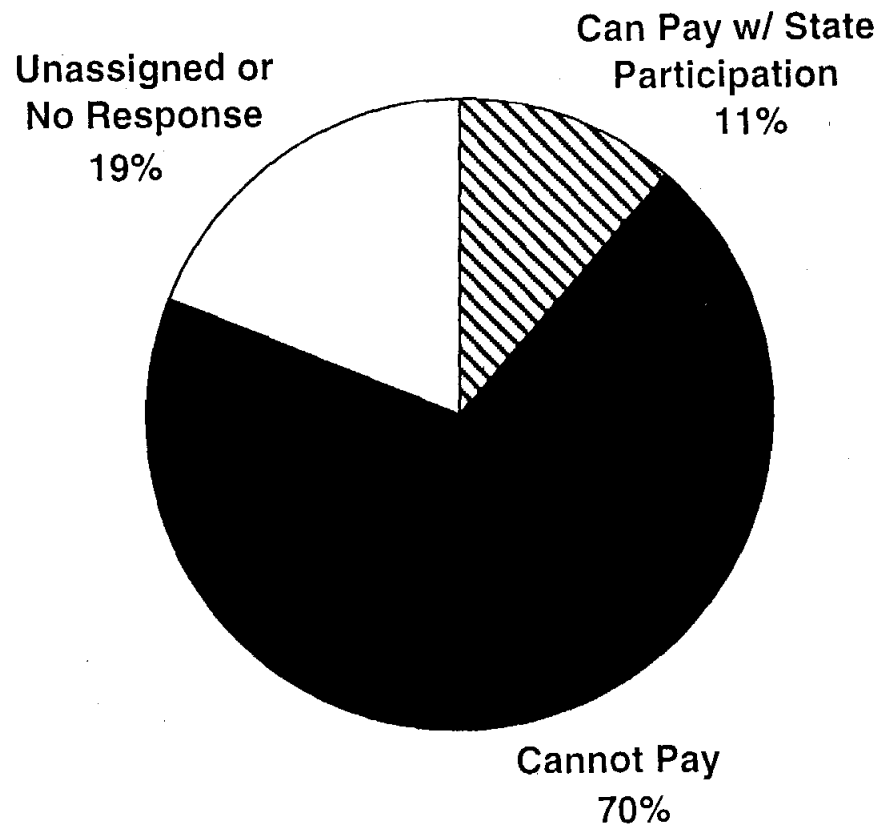
- No response requested. Surveyed through municipal customers and/or county representatives.

Finally, it is interesting to note that the survey responses indicate that 94 percent to 98 percent of the estimated costs for recommended Demand Reduction (Conservation) can be paid for using local utility revenue sources.

The following were identified by survey respondents as potential sources of outside funding:

- State Participation Program;
- State Revolving Funds;
- State & Federal Funds;
- Community Development Block Grant Program;
- Rural Development;
- Economic Development Administration;
- Texas Department of Housing & Community Affairs;
- Underground Water Conservation Districts;
- Grants;
- Low Interest Loans; and
- State Funded Conservation Programs.

## Ability to Pay for Water Management Strategies in South Central Texas Regional Water Plan



\* Percentages based on estimated costs of water management strategies, not number of water user groups.

Summary of Numerical Responses to Water Infrastructure Financing Survey

Category	ID#	Entity	Strategy Name	Implementation	Capital Cost	Can Pay	Can Pay w/ State		Unassigned or No Response
				Date			Participation	Cannot Pay	
A	1	Alamo Heights	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$168,108	\$168,108	\$168,108	\$0	\$0
A	1	Alamo Heights	Purchase/Participate with Regional Water Provider(s)	2000	\$11,930,066	\$119,306	\$119,306	\$11,810,760	\$0
A	2	Balcones Heights	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$99,572	\$0	\$0	\$0	\$99,572
A	2	Balcones Heights	Purchase/Participate with Regional Water Provider(s)	2000	\$7,953,377	\$0	\$0	\$0	\$7,953,377
A	3	China Grove	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$26,185	\$0	\$0	\$0	\$26,185
A	3	China Grove	Purchase/Participate with Regional Water Provider(s)	2000	\$3,976,689	\$0	\$0	\$0	\$3,976,689
A	4	Converse	Purchase/Participate with Regional Water Provider(s)	2000	\$47,720,264	\$0	\$0	\$0	\$47,720,264
A	5	Elmendorf	Purchase/Participate with Regional Water Provider(s)	2000	\$795,338	\$0	\$0	\$0	\$795,338
A	6	Fl. Sam Houston	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$246,442	\$0	\$0	\$0	\$246,442
A	6	Fl. Sam Houston	Purchase/Participate with Regional Water Provider(s)	2000	\$11,930,066	\$0	\$0	\$0	\$11,930,066
A	7	Helotes	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$37,354	\$0	\$0	\$0	\$37,354
A	7	Helotes	Purchase/Participate with Regional Water Provider(s)	2000	\$3,976,689	\$0	\$0	\$0	\$3,976,689
A	8	Kirby	Purchase/Participate with Regional Water Provider(s)	2000	\$15,905,755	\$0	\$0	\$0	\$15,905,755
A	9	Lackland AFB	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$182,384	\$0	\$0	\$0	\$182,384
A	9	Lackland AFB	Purchase/Participate with Regional Water Provider(s)	2000	\$11,930,066	\$0	\$0	\$0	\$11,930,066
A	10	Leon Valley	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$233,003	\$0	\$0	\$233,003	\$0
A	10	Leon Valley	Purchase/Participate with Regional Water Provider(s)	2000	\$4,772,028	\$1,800,000	\$1,800,000	\$2,972,028	\$0
A	11	Live Oak	Purchase/Participate with Regional Water Provider(s)	2010	\$7,953,377	\$0	\$0	\$0	\$7,953,377
A	12	Olmos Park	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$60,814	\$0	\$0	\$0	\$60,814
A	12	Olmos Park	Purchase/Participate with Regional Water Provider(s)	2000	\$3,976,689	\$0	\$0	\$0	\$3,976,689
A	13	Randolph AFB	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$78,707	\$0	\$0	\$0	\$78,707
A	13	Randolph AFB	Purchase/Participate with Regional Water Provider(s)	2000	\$7,953,377	\$0	\$0	\$0	\$7,953,377
A	14	SAWS	Aquifer Storage & Recovery - Regional (SCTN-1A)	2000	\$115,402,000	\$115,402,000	\$115,402,000	\$0	\$0
A	14	SAWS	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$50,865,629	\$50,865,629	\$50,865,629	\$0	\$0
A	14	SAWS	Purchase/Participate with Regional Water Provider(s)	2000	\$2,284,122,507	\$0	\$0	\$2,284,122,507	\$0
A	14	SAWS	SAWS Recycled Water Program	2010	\$209,231,000	\$125,000,000	\$125,000,000	\$84,231,000	\$0
A	14	SAWS	Simsboro Aquifer (SCTN-3c)	2000	\$389,394,583	\$0	\$0	\$389,394,583	\$0
A	14	SAWS	Western Canyon Regional Supply Project	2000	\$0	\$0	\$0	\$0	\$0
A	15	Shavano Park	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$32,826	\$0	\$0	\$32,826	\$0
A	15	Shavano Park	Purchase/Participate with Regional Water Provider(s)	2000	\$7,953,377	\$0	\$0	\$7,953,377	\$40
A	16	Terrell Hills	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$103,720	\$0	\$0	\$0	\$103,720
A	16	Terrell Hills	Purchase/Participate with Regional Water Provider(s)	2000	\$7,953,377	\$0	\$0	\$0	\$7,953,377
A	17	Universal City	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$912,029	\$912,029	\$912,029	\$0	\$0
A	17	Universal City	Purchase/Participate with Regional Water Provider(s)	2000	\$39,766,887	\$39,766,887	\$39,766,887	\$0	\$0
A	18	County-Other (Bexar County)	Lake Duntap WTP Expansion & Mid-Cities WTS (CRWA)	2000	\$0	\$0	\$0	\$0	\$0
A	18	County-Other (Bexar County)	Purchase/Participate with Regional Water Provider(s)	2000	\$270,414,832	\$0	\$0	\$0	\$270,414,832
A	18	County-Other (Bexar County)	Western Canyon Regional Supply Project	2000	\$0	\$0	\$0	\$0	\$0
B	1	Castle Hills	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$100,994	\$100,994	\$100,994	\$0	\$0
B	1	Castle Hills	Purchase/Participate with Regional Water Provider(s)	2000	\$11,930,066	\$2,982,517	\$5,965,033	\$5,965,033	\$0
B	2	Hill Country Village/Hollywood Park	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$97,175	\$97,175	\$97,175	\$0	\$0
B	2	Hill Country Village/Hollywood Park	Purchase/Participate with Regional Water Provider(s)	2000	\$21,474,119	\$5,368,530	\$10,737,059	\$10,737,060	\$0
B	2	Hill Country Village/Hollywood Park	Trinity Aquifer - Bexar (BMWD)	2000	\$0	\$0	\$0	\$0	\$0
B	3	Somerset	Carrizo Aquifer - Bexar & Guadalupe (BMWD)	2000	\$0	\$0	\$0	\$0	\$0
B	4	BMWD (Other Subdivisions)	Carrizo Aquifer - Bexar & Guadalupe (BMWD)	2000	\$0	\$0	\$0	\$0	\$0
B	4	BMWD (Other Subdivisions)	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$1,371,793	\$1,371,793	\$1,371,793	\$0	\$0
B	4	BMWD (Other Subdivisions)	Purchase/Participate with Regional Water Provider(s)	2000	\$280,754,223	\$70,188,656	\$140,377,111	\$140,377,112	\$0
C	1	Castroville	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$56,187	\$0	\$0	\$0	\$56,187
C	1	Castroville	Edwards Irrigation Transfers (L-15)	2000	\$0	\$0	\$0	\$0	\$0
C	2	Devine	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$73,782	\$7,378	\$7,378	\$66,404	\$0
C	2	Devine	Edwards Irrigation Transfers (L-15)	2000	\$0	\$0	\$0	\$0	\$0
C	3	Hondo	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$501,151	\$100,230	\$100,230	\$400,921	\$0
C	3	Hondo	Edwards Irrigation Transfers (L-15)	2000	\$0	\$0	\$0	\$0	\$0
C	4	LaCoste	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$20,392	\$1,000	\$3,000	\$17,392	\$0
C	4	LaCoste	Edwards Irrigation Transfers (L-15)	2000	\$0	\$0	\$0	\$0	\$0
C	5	Lylie	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$39,149	\$0	\$0	\$39,149	\$0
C	5	Lylie	Edwards Irrigation Transfers (L-15)	2000	\$0	\$0	\$0	\$0	\$0
C	6	Sabinal	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$38,624	\$0	\$0	\$38,624	\$0
C	6	Sabinal	Edwards Irrigation Transfers (L-15)	2000	\$0	\$0	\$0	\$0	\$0
C	7	Uvalde	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$293,207	\$0	\$0	\$0	\$293,207
C	7	Uvalde	Edwards Irrigation Transfers (L-15)	2000	\$0	\$0	\$0	\$0	\$0
C	8	County-Other (Medina County)	Edwards Irrigation Transfers (L-15)	2000	\$0	\$0	\$0	\$0	\$0
D	1	Kyle	GBRA Canyon Reservoir Contract Renewal	2040	\$0	\$0	\$0	\$0	\$0
D	1	Kyle	Hays/H35 Water Supply Project	2000	\$0	\$0	\$0	\$0	\$0

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Summary of Numerical Responses to Water Infrastructure Financing Survey

Category	ID#	Entity	Strategy Name	Implementation Date	Capital Cost	Can Pay	Can Pay w/ State Participation	Cannot Pay	Unassigned or No Response
D	2	Port Lavaca	GBRA Canyon Reservoir Contract Renewal	2010	\$0	\$0	\$0	\$0	\$0
E	1	Fair Oaks Ranch	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$15,021	\$15,021	\$15,021	\$0	\$0
E	1	Fair Oaks Ranch	Purchase/Participate with Regional Water Provider(s)	2000	\$3,976,688	\$0	\$0	\$3,976,688	\$0
E	1	Fair Oaks Ranch	Western Canyon Regional Supply Project	2000	\$0	\$0	\$0	\$0	\$0
E	2	Schertz	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$127,702	\$127,702	\$127,702	\$0	\$0
E	2	Schertz	Schertz-Seguin Water Supply Project	2000	\$0	\$0	\$0	\$0	\$0
E	3	Seguin	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$445,612	\$0	\$0	\$445,612	\$0
E	3	Seguin	Schertz-Seguin Water Supply Project	2000	\$0	\$0	\$0	\$0	\$0
F	1	Carrizo Springs	Carrizo Aquifer - Local Supply (SCTN-2a)	2000	\$2,073,544	\$414,700	\$829,400	\$1,244,144	\$0
F	1	Carrizo Springs	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$128,922	\$38,600	\$51,500	\$77,422	\$0
F	2	Floresville	Carrizo Aquifer - Local Supply (SCTN-2a)	2040	\$716,466	\$100,000	\$100,000	\$616,466	\$0
F	2	Floresville	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$104,586	\$50,000	\$50,000	\$54,586	\$0
F	3	Lockhart	Carrizo Aquifer - Local Supply (SCTN-2a)	2010	\$6,567,000	\$6,567,000	\$6,567,000	\$0	\$0
F	4	County-Other (Atascosa County)	Carrizo Aquifer - Local Supply (SCTN-2a)	2030	\$39,600	\$0	\$0	\$39,600	\$0
G	1	Boerne	Demand Reduction (Conservation) (L-10 Mun.)	2010	\$156,478	\$156,478	\$156,478	\$0	\$0
G	1	Boerne	Purchase Water from Major Provider	2050	\$8,399,500	\$8,399,500	\$8,399,500	\$0	\$0
G	1	Boerne	Western Canyon Regional Supply Project	2000	\$0	\$0	\$0	\$0	\$0
G	2	Garden Ridge	Canyon Reservoir - River Diversion (G-15C)	2000	\$4,263,226	\$1,250,000	\$1,250,000	\$3,013,226	\$0
G	2	Garden Ridge	Demand Reduction (Conservation) (L-10 Mun.)	2010	\$33,815	\$33,815	\$33,815	\$0	\$0
G	3	New Braunfels	Additional Storage (ASR and/or Surface)	2000	\$15,106,000	\$0	\$0	\$15,106,000	\$0
G	3	New Braunfels	Canyon Reservoir - River Diversion (G-15C)	2000	\$56,640,006	\$0	\$0	\$56,640,006	\$0
G	3	New Braunfels	Carrizo Aquifer - Gonzales & Bastrop (CZ-10D)	2040	\$66,311,189	\$0	\$0	\$66,311,189	\$0
G	3	New Braunfels	Demand Reduction (Conservation) (L-10 Mun.)	2010	\$864,886	\$864,886	\$864,886	\$0	\$0
G	3	New Braunfels	GBRA Canyon Reservoir Contract Renewal	2010	\$0	\$0	\$0	\$0	\$0
G	4	San Marcos	Additional Storage (ASR and/or Surface)	2000	\$21,970,000				\$21,970,000
G	4	San Marcos	Demand Reduction (Conservation) (L-10 Mun.)	2000	\$1,008,282				\$1,008,282
G	4	San Marcos	GBRA Canyon Reservoir Contract Renewal	2050	\$0				\$0
G	4	San Marcos	New Colorado River Diversion Option	2030	\$124,528,614				\$124,528,614
G	4	San Marcos	Purchase Water from Major Provider	2000	\$22,077,664				\$22,077,664
G	5	Wimberley	Canyon Reservoir (G-24)	2050	\$4,398,086	\$0	\$0	\$4,398,086	\$0
G	6	County-Other (Comal County)	Canyon Reservoir - River Diversion (G-15C)	2000	\$30,451,616				\$30,451,616
G	6	County-Other (Comal County)	Carrizo Aquifer - Gonzales & Bastrop (CZ-10D)	2030	\$124,096,653				\$124,096,653
G	6	County-Other (Comal County)	Western Canyon Regional Supply Project	2000	\$0				\$0
G	7	County-Other (Guadalupe County)	Carrizo Aquifer - Gonzales & Bastrop (CZ-10D)	2000	\$29,368,384	\$0	\$0	\$0	\$29,368,384
G	7	County-Other (Guadalupe County)	Schertz-Seguin Water Supply Project	2000	\$0	\$0	\$0	\$0	\$0
G	8	County-Other (Hays County)	Canyon Reservoir (G-24)	2000	\$7,121,659				\$7,121,659
G	8	County-Other (Hays County)	Hays/H35 Water Supply Project	2000	\$0				\$0
G	8	County-Other (Hays County)	New Colorado River Diversion Option	2030	\$11,320,783				\$11,320,783
G	9	County-Other (Kendall County)	Purchase Water from Major Provider	2000	\$58,712,505	\$0	\$0	\$0	\$58,712,505
<b>Totals</b>					<b>\$4,435,830,464</b>	<b>\$432,269,834</b>	<b>\$511,239,034</b>	<b>\$3,090,312,762</b>	<b>\$834,278,668</b>
<b>Percentages</b>						<b>9.74</b>	<b>11.53</b>	<b>69.67</b>	<b>18.81</b>

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## 4.2 *Aggregated Water User Groups*

Water users of the county aggregated water user groups, such as irrigation, are private individuals who must find their own sources of financing for implementation of water management strategies to meet their needs. Among the sources of funding for irrigation water conservation strategies are the TWDB Agricultural Water Conservation Loan Fund and private lending institutions. The TWDB Agricultural Water Conservation Loan Program is available to individuals who reside in a soil and water conservation district, an underground water conservation district, or an irrigation district, if the respective districts participate in the program. In the past the Edwards Aquifer authority and underground water conservation districts located in Region L have provided irrigation water conservation loans to farmers of their respective regions. In addition, individuals can and do obtain loans from the private lending sector, including banks.

Funding to implement weather modification strategies contained in the plan is provided by the local sponsors, with cost sharing from the State. Funding for brush control is available on a cost sharing basis from the Texas State Soil and Water Conservation Board and the U. S. Department of Agricultural Soil and Water Conservation programs, which the SCTRWPWG recommends be continued.

## **Section 5**

### **Policy Recommendations**

#### **5.1 Policy Recommendations on State Role in Infrastructure Financing**

The Policy Recommendation Section of the Infrastructure Finance Report has the framework suggested by the following TWDB guidance.

For the second element of the IFR, Senate Bill 2 (77<sup>th</sup> Texas Legislature, Regular Session) requires the RWPGs to develop a policy statement(s) that answers the following question:

What is the proper role(s) for the State in financing water supply projects identified in the approved regional water plans? (Paraphrased from TWC §16.053(q)(2) added in Senate Bill 2, 77<sup>th</sup> Texas Legislature, Regular Session)

For completing this element, Senate Bill 2 (77<sup>th</sup> Texas Legislature, Regular Session) requires that RWPGs give particular attention to proposed increases in the level of **State Participation** ... in funding for regional water supply projects to meet needs beyond the reasonable financing capability of local governments, regional authorities, and other political subdivisions involved in building water infrastructure.

This section of the IFR considers the general policy questions involved in State funding, the State's role and funding source recommendations, and funds allocation for the State Participation Program.

##### **5.1.1 General Policy Considerations**

###### **A. What is the proper role and goal of State assistance? What is the proper balance between local and state funding? How should assistance be targeted?**

During the policy discussions held while preparing the 2001 Regional Water Plan, the SCT RWPG agreed on a recommendation for State funding for demonstration projects that would have a statewide impact in enhancing knowledge about the feasibility of innovative technologies. The RWPG did not reach consensus on a recommendation for State funding of water management strategies to meet the needs of specific Water User Groups. In addition, it is important to note that some SCTRWP members have

expressed and emphasized that maintenance and upgrading of existing water infrastructure involves significant costs for which there are no readily available sources of funding, and further complicates the response to the questions being addressed here.

The basic policy question remains as to whether or not the State should play a larger role in financing the recommended water management strategies of the Regional Water Plans. If so, what criteria should be used to allocate financial assistance? Should additional assistance be available to all water providers or just to those meeting certain criteria, such as the size or financial capacity of the provider, location of a provider in an area facing special conditions, such as rapid growth, unique restrictions on access to water sources, lack of incorporated municipalities or other factors?

**B. From what source should State funds be generated? What is the adequate level of state assistance for the range of Texas communities?**

One of the major problems limiting a significant expansion of State financing of long-term water construction projects has been concern about creating a heavy burden for future taxpayers. Under the State Participation Program, TWDB acquires a temporary, interest in a project by selling state bonds. Since payments by the local sponsor are deferred, TWDB must service the debt on its share of the project from other sources. TWDB has had a little funding to use for this, but a major expansion of the program would cause a draw on State general revenues, or another dedicated funding source.<sup>1</sup>

**5.1.2 State Role and Funding Source Recommendations**

The 2002 State Water Plan identifies numerous water management strategies for the sixteen regional water-planning areas of the state. In addition to maintenance and upgrading of existing water infrastructure, implementation of the water management strategies included in the sixteen regional plans will cost in excess of \$17 billion over 50 years.<sup>2</sup> During this time the state's population is projected to grow from 21 million to 50

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<sup>1</sup> At the present time, the TWDB has more than \$2.5 billion of bonding authority for water infrastructure purposes.

<sup>2</sup> The cost for new infrastructure to meet water needs in Region L is approximately \$4.44 billion, of which 90 percent is needed within the next 20 years. This is in addition to the costs of maintenance and upgrading of existing water infrastructure.

million. Texas' economic growth over the next decade is expected to exceed the national average. In order to maintain the state's economic momentum and to provide for the current and future quality of life needs for the citizens of Texas, safe and adequate water resources must be provided.

The water management strategies identified in the sixteen regional water planning areas of the state are as diverse as the state itself. The management strategies include large regional projects, non-traditional projects, and small, local projects. In some cases, local or regional funding is adequate for project implementation. Current TWDB financial assistance programs may also be adequate to help implement some of the identified strategies where current funding sources are adequate. However, a number of the strategies, including many of the large regional projects and even more of the small, local projects, will require some type of additional financial assistance. This necessitates identification of additional funding sources and allocation mechanisms.

Several proposals have been made in recent years for funding sources that would be dedicated to water construction needs. These include:

- appropriations of general revenue,
- repeal of the state's sales tax exemption on all retail water sales,
- a surcharge on all retail water bills statewide,
- water user fees,
- impact fees linked to land development parcels, and
- ad valorem tax.

Since no single funding source may adequately address all concerns of the varied interests responsible for the regional water plans, an array of funding sources should be investigated. However, the selected revenue or taxing methods should be subjected to very careful evaluations that include estimates of revenues to be generated and upon whom such revenue measures or taxes will fall.

The SCTRWPG recommends considering the following five criteria in selecting a funding source:

- The funding source(s) collections should be universal, as all Texas citizens and visitors to the state benefit from a thriving Texas economy;
- The funding source(s) collections should be equitable and pose no disproportionate burden on any group of individuals or businesses;



- The revenue from the funding source(s) should be dedicated to developing and implementing the water management strategies identified in the state water plan;
- Revenue stability should be considered in selecting the funding source(s) as the financial needs are to be incurred over the next 50 years; and
- Administrative ease regarding collection and distribution should be considered in funding source(s) selection (Table 5-1). The selected taxes or fees should be subjected to very careful evaluations to include estimates of revenues to be generated and upon whom such taxes or fees will fall.

### **5.1.3 Funds Allocation and the State Participation Program for Regional Water Supply Projects**

Along with the establishment of funding sources, the legislature should also develop an allocation system to distribute the funds to the implementing entities. The TWDB should remain as the main distribution vehicle through which funds are channeled to develop regional and local water supply projects.

The current State Participation program has been designed to provide financial assistance that may be necessary for water management strategies that exceed the capacity of any one provider. For example, such projects would involve 1) supplying multiple providers through a regional system and/or 2) supplying projected future growth of a provider or providers that cannot at present afford to pay the full cost of system expansion to meet that level of growth, without undue burden to existing rate payers. TWDB's description of the current State Participation program, is as follows:

“The State Participation Program enables TWDB to purchase a temporary ownership interest in a regional project when local sponsors are unable to assume the debt for an optimally sized facility. TWDB may acquire ownership interests in the water rights or a co-ownership interest in the property or treatment works. Currently, TWDB's participation is limited to a maximum of 50% of the project costs and to the portion of the project designated as “excess” capacity. There is also a requirement that the project cannot be reasonably financed without state participation assistance, and that the optimum regional development of the project cannot be reasonably financed without the state participation.

“The loan repayments that would have been required, if the assistance had been from a loan, are deferred. Ultimately, however, the cost of the

funding is repaid to the Board based upon purchase payments, which allow the Board to recover its principal and interest costs and issuance expenses, etc., but on a deferred timetable.

“The intent of this program is to allow for optimization of regional projects through limited State participation where the benefits can be documented, and such development is unaffordable without State participation. The goal is to allow for the "Right Sizing" of projects in consideration of future growth.”

The SCTRWPG recommends the following modifications of the State Participation Program:

1. State Role in Major Projects: The State should play a role, even one of ownership, in major projects that transcend the scope of a single region, such as large scale desalination projects, and share in costs of elements and parts of projects that are required in response to Federal and State environmental protection actions, such as in the protection of spring flows for endangered species of state and national importance.
2. Term of State Participation: The State’s lending program should be modified to offer repayment periods that coincide with the expected life of projects.
3. Subsidies and Level of Funding: The State should offer more loans with subsidized interest rates to the smaller water providers. Grants should also be expanded to enable these systems to meet future growth.
4. Eligibility and Criteria for Funding: Eligibility and criteria could consider granting fund allocation priority to entities that have demonstrated commitment to water conservation by achieving low per capita use, and to projects that are environmentally friendly. Regions with greater shortages should be given higher priority.
5. Alternative Funding: A graduated impact fee should be imposed on new development to provide a source of funding for construction required by growth, rather than continued reliance on general rate increases affecting all water users. The ability to repay loans would thus increase as the need for water grew. A one-time connection fee would reflect the impact of the growing population of the new development.
6. Incentives for Regional Systems: The State should use grants or deferred and/ or subsidized interest payments to create incentives for small systems to cooperate in regional projects that would be more economical to build. A regional system could also produce sufficient revenue to pay for upgrading technical and management systems for the small providers. In order to prepare for regional cooperation, however, the small systems need access to planning funds, which are now restricted to the large-scale regional planning groups.

## **5.2 Summary**

In summary, the SCTRWPG believes that the state has a significant role to play in providing financial assistance to help implement the regional water plans. The legislature should investigate an array of funding sources to develop the financing mechanisms necessary for the regional water plans implementation. The funding sources should be universal, equitable, dedicated to state water plan implementation, have a stable revenue base, and a high degree of administrative ease regarding collection and distribution. In addition, the SCTRWPG recommends that the TWDB should remain the primary vehicle through which funds are channeled to the entities implementing the projects in the state water plan. Modifications to the State Participation Program should be considered to provide more accessibility to funding, to encourage water conservation, and to promote regionalization.

**Table 5-1: Comparisons of Potential Funding Sources**

<b>Funding Mechanism</b>	<b>Universal</b>	<b>Equitable</b>	<b>Dedicated</b>	<b>Stable</b>	<b>Easily Administered</b>
Appropriations of General Revenue	The tax system that generates general revenue is applied throughout the state and would continue to fall on taxpayers as is the present case.	Would be as equitable as present tax system.	Special legislation would be needed to dedicate revenues to water funding accounts.	This should be a relatively stable source of funding, but would fluctuate as taxes vary with changing economic conditions.	Administration would be very easy as all the collection and enforcement mechanisms are already in place.
Apply sales tax to retail sale of water	The sales tax would apply to all retail sales of water, regardless of the source or method of delivery. Surface water, groundwater and bottled water would all be affected. Private wells would not be charged, nor would wholesale sales. The tax would hit higher-priced utilities harder than those with lower prices. Municipalities and other entities that collect sales taxes would also see an increase in revenue.	Although sales taxes are generally regressive, because water sales tend to increase as income increases a sales tax applied to retail sales of water would likely be somewhat progressive.	The legislature would have to pass special legislation to dedicate the portion of sales tax revenues collected to water projects, and there would be additional costs for the comptroller.	This should be a very stable source of income as water use is year-round and fairly constant. Collections during summer months would likely be higher than winter months.	Administration would be very easy as all the collection and enforcement mechanisms are already in place. Some utilities and cities would have to begin collecting the tax, but because it is a percentage of the billing, there should not be an increase in collection costs.
Apply water use surcharge on retail water bills	The surcharge would apply to all retail sales of water, regardless of source or method of delivery. Surface water, groundwater and	If the fee is charged based on water consumption, the fees would be relatively progressive, generally collecting more money	A new fee or surcharge would require special legislation to implement, and would be fairly easy to dedicate to water	This fee should be fairly stable as water use is year round, and meters are already identified by the utilities.	This fee would have to be administered primarily by water utilities. The comptroller's

Funding Mechanism	Universal	Equitable	Dedicated	Stable	Easily Administered
	bottled water would all be affected. Private wells would not be charged, nor would wholesale sales. The fee would apply based entirely on water consumption, so the prices charged by individual utilities would not affect the fee income generated.	from higher income households and businesses. If the fee is based on meter size regardless of use, the fee may actually be relatively regressive.	projects.		office may have to create new collection and enforcement programs separate from those used for sales tax collections.
Direct water use fees	These fees would be applied to all raw water deliveries, regardless of the source. It would apply to both surface water and groundwater, but would only apply to bottled water indirectly, and then only if the source was inside Texas.	Because the fee is based on raw water deliveries, it is equitable across types of use. But because purveyors would decide how to pass on the cost to the ultimate consumer it is not possible to determine if the final impact is equitable.	These fees would be created by special legislation and could easily be dedicated to water infrastructure.	Raw water is taken on a regular basis, so the fees should be relatively stable.	The comptroller's office would have to create new collection and enforcement programs separate from those used for sales tax collection, and would have to identify all water wholesalers throughout the state. Although this method requires collections from a much smaller number of entities than either retail option, the administration represents an entirely new program.

<b>Funding Mechanism</b>	<b>Universal</b>	<b>Equitable</b>	<b>Dedicated</b>	<b>Stable</b>	<b>Easily Administered</b>
Impact fees on new development	These fees would only apply to new developments and would not have any impact on existing users. The fees would apply regardless of the source water used in the development.	Some argue this is the only equitable means of financing new water supplies, because the existing users are not creating the new demand and therefore should not have to pay for the new development. Others argue the "rising tide lifts all boats" and everyone benefits from growth.	These fees would be created by special legislation and could easily be dedicated to water infrastructure.	Although growth and development occur on a regular basis, it does not occur uniformly throughout the year or throughout the state. The stability of the income is dependent on new development occurring.	The comptroller's office would have to create new collection and enforcement programs separate from those used for sales tax collection, and would have to identify all new developments throughout the state.
Ad Valorem property taxes	Property taxes would apply throughout the state, and collect more funds from higher valued property.	Property taxes are charged against all property regardless of whether that property benefits from new water supplies.	These taxes would be created by special legislation and could easily be dedicated to water infrastructure.	Property tax collections are very stable.	A statewide property tax would require new administration for collection and enforcement.

## **Section 6**

### **Public Comment**

At the March 21, 2001 SCTRWPG Public Meeting at which the Infrastructure Financing report was presented and discussed, the following Comments from the Public were made:

Kirk Patterson: “Facilitate the receipt of these public comments to the legislature for me. Historically, optimal size has worked. SAWS can raise their own money. Then the accountability remains local. Someone on a state or national level will be inefficient. New development in California has to pay a huge impact fee. Do not make old ratepayers subsidize new growth by raising their taxes.”

Myron Hess: “How should assistance be targeted? If there is state funds involved, then they should target the least environmentally sensitive projects and increased conservation.”

Carol Patterson: “there should be some sort of structure to fund the most efficient ideas. The state revolving fund does not have any accountability toward project choice. SAWS customers are facing a large (400%) rate increase to implement this plan. Water Quality—There should be additional concerns over payments. There needs to be accountability toward lower costs and environmental projects.”

## ***Appendix A***

### ***Example Survey Package***



The Honorable Estanislado Z. Martinez  
Mayor, City of Carrizo Springs  
308 W. Pena St.  
Carrizo Springs, TX 78834

Dear Mayor Martinez:

We need to ask your help in completing a survey that the Texas Legislature has directed us to conduct about the financing of future improvements to local water systems. The answers to the surveys, now being conducted across the state, may result in new forms of State financial assistance. We think this could be an important step in helping achieve future goals for water development, and your ideas about the best role for State financing are critical to the effectiveness of this Infrastructure Financing Survey.

The Legislature wants to find out what form and amount of State financial assistance would be required to implement all 16 Regional Water Plans approved over the summer by the Texas Water Development Board. The TWDB requires us to send you the enclosed survey form with the four questions exactly as worded so that they can compile the results for their state-wide report to the Legislature.

As you will recall, the TWDB approved the South Central Texas Regional Water Plan on July 18 of this year. That plan, as required by State law, included a specific water management strategy for every municipality, like Carrizo Springs, with a need for water over the next fifty years that could not be met from the municipal system available at this time. The plan also includes a projected cost for building and for operating that additional capacity during the fifty-year planning period. Attached to the survey form is a copy of the portions of the Regional Water Plan that detail the recommended water management strategy for Carrizo Springs.

We realize that many municipalities and water provider organizations are already implementing water system improvements that may differ somewhat from the strategies contained in the Regional Water Plan. Costs and specifications, for example, may not match up for a number of reasons, or the need may be met through a water provider organization that handles the capital investment and operation itself. You may have questions about these or other issues, and therefore, we will be holding two meetings to answer questions that may arise in responding to the survey. The first meeting is scheduled on December 5<sup>th</sup> at 2:30 p.m. in association with the ACOG meeting being held at the Omni San Antonio Hotel (located at 9821 Colonnade Blvd., Ph# 210-691-8888). The second meeting is scheduled on December 13<sup>th</sup> at 9:00 a.m. in the San Antonio River Authority Board Room (located at 100 East Guenther Street in San Antonio, Ph# 210-227-1373). You are invited and are welcome to attend either of the meetings.

I ask your full cooperation in completing the Infrastructure Financing Survey and returning it to Moorhouse Associates by December 31, 2001. Once we have all the survey forms, we will compile the information in a table format (as specified by the TWDB) as part of a written report. You will receive a copy of this report.

Thank you for your assistance.

Evelyn Bonavita, Chair  
South Central Texas Regional Water Planning Group

# ATTACHMENT A

## Water Plan for Carrizo Springs

### 5.3.7.3 City of Carrizo Springs

The City of Carrizo Springs' current water supply is obtained from the Carrizo Aquifer. The City of Carrizo Springs is projected to need additional water supplies beginning in the year 2000. The following options were considered to meet the city's projected need:

- Demand Reduction (Conservation) (L-10 Mun.)
- Carrizo Aquifer – Local Supply (SCTN-2a)

Working within the planning criteria established by the SCTRWPG and the TWDB, it is recommended that the City of Carrizo Springs implement the following water supply plan to meet the projected need for the city (Table 5.3.7-4).

- Municipal demand reduction (conservation) to be implemented in 2000. This project can provide an additional supply of up to 34 acft/yr. (See Errata Sheet, Attachment E, Table A).
- Carrizo Aquifer – Local Supply (SCTN-2a) to be implemented in 2000. This project can provide additional supplies of 500 acft/yr in 2000, 1,000 acft/yr in 2010, 1,500 acft/yr in 2020 and 2030, and 2,000 acft/yr in 2040 and 2050.

**Table 5.3.7-4.  
Recommended Water Supply Plan for the City of Carrizo Springs**

	<i>2000 (acft/yr)</i>	<i>2010 (acft/yr)</i>	<i>2020 (acft/yr)</i>	<i>2030 (acft/yr)</i>	<i>2040 (acft/yr)</i>	<i>2050 (acft/yr)</i>
Projected Need (Shortage)	138	405	649	1,054	1,479	1,959
<b><i>Recommended Plan</i></b>						
Demand Reduction (Conservation) (L-10 Mun.)	8	29	34	26	30	34
Carrizo Aquifer – Local Supply (SCTN-2a)	500	1,000	1,500	1,500	2,000	2,000
Total New Supply	508	1,029	1,534	1,526	2,030	2,034

The costs of the recommended plan to meet the City of Carrizo Springs' projected need are shown in Table 5.3.7-5.

**Table 5.3.7-5.  
Recommended Plan Costs by Decade for the City of Carrizo Springs**

<i>Plan Element</i>	<i>2000</i>	<i>2010</i>	<i>2020</i>	<i>2030</i>	<i>2040</i>	<i>2050</i>
<b>Demand Reduction (Conservation) (L-10 Mun.)</b>						
Annual Cost (\$/yr)	\$2,088	\$6,902	\$7,378	\$2,678	\$2,760	\$2,788
Unit Cost (\$/acft)	\$261	\$238	\$217	\$103	\$92	\$82
<b>Carrizo Aquifer – Local Supply (SCTN-2a)</b>						
Annual Cost (\$/yr)	\$64,500	\$129,000	\$193,500	\$156,000	\$183,000	\$183,000
Unit Cost (\$/acft)	\$129	\$129	\$129	\$104	\$92	\$92

## ATTACHMENT B

### WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: City of Carrizo Springs

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_

Telephone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

**Please return the completed survey by December 31, 2001 to:**

**Name: Moorhouse Associates**

**Address: 5826 Bear Lane**

**Corpus Christi, TX 78405**

**Telephone: 361/883-6016**

**Fax: 361/883-7417**

**E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)**

**If you have any questions regarding this survey, please contact:**

**Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.**

**Recommended Water Management Strategies for**

**The City of Carrizo Springs**

<b>Political Subdivision</b>	<b>Strategy</b>	<b>Strategy Implementation Date</b>	<b>Total Capital Cost</b>
City of Carrizo Springs	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$128,922
City of Carrizo Springs	CARRIZO AQUIFER - LOCAL SUPPLY (SCTN-2a)	2000	\$2,073,544
<b>Total</b>			<b>\$2,202,466</b>

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Carrizo Springs

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$128,922

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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\* Capital Cost includes new water supply facilities treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Carrizo Springs

Water Management Strategy Name: Carrizo Aquifer – Local Supply (SCTN-2a)

Capital Cost\*: \$ 2,073,544

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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\* Capital Cost includes new water supply facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

**Appendix B**  
**Survey Follow-Up Documentation**

*( By Moorhouse Associates, Inc.)*



## *IFR Survey Recipients*

	File Name	Recipient	CC	Notes
1	Bexar Met_HW Park	Mayor Burris	Mayor Wulfe and Bexar Met	01/02/02 Received completed survey from Bexar Met. Faxed to Herb Grubb.
2	Bexar Met_BMWD (Other Subdivisions)	Tom Moreno	CRWA & GBRA	01/02/02 Completed survey received and faxed to Herb Grubb.
3	Bexar Met_Castle Hills	Mayor Seyfarth	Bexar Met	12/13 Completed survey received and faxed to Herb Grubb.
4	Bexar Met_Somerset	Mayor Gonzales	Bexar Met	12/28 Completed survey received and faxed to Herb Grubb.
5	Bexar Reg Wat Prov_Alamo Heights	Mayor Biechlin	None	12/31 Completed survey received and faxed to Her Grubb.
6	Bexar Reg Wat Prov_Balcones Heights	Mayor Rodriguez	SAWS	1/4/02 Included in SAWS response as per Fred Arce.
7	Bexar Reg Wat Prov_Bexar Cty Rural Areas (Cty Other)	Judge Wolff.	GBRA	11/28 Survey mailed.; 12/27 Spoke with Ruth. Survey was given to Gabe Perez. Left message for him to call. Ruth called back. They needed another survey. Faxed it to them. 2/11/02 Spoke with her about the survey and deadline. She said she would check on it and call me back.
8	Bexar Reg Wat Prov_China Grove	Mayor Dunk	SAWS	1/4/02 Included in SAWS response as per Fred Arce.
9	Bexar Reg Wat Prov_Converse	Mayor Martin	None	11/30 Mailed survey.; 12/11 Spoke with Sam Hughes, City manager. Faxed him the survey.; 12/26 Left message for Mr. Hughes regarding the survey and deadline. Spoke with Trisha. 2/11/02 Spoke with Trisha. Mr. Hughes in a meeting. Told her deadline was 2/13/02 for return of survey.
10	Bexar Reg Wat Prov_Elmendorff	Mayor Slaughter	SAWS	1/4/02 Included in SAWS response as per Fred Arce.
11	Bexar Reg Wat Prov_Ft. Sam Houston	Phillip Reidinger	None	01/23/02 Received letter stating that they would be unable to comply with our request for information.
12	Bexar Reg Wat Prov_Helotes	Mayor Hodges	SAWS	1/4/02 Included in SAWS response as per Fred Arce.
13	Bexar Reg Wat Prov_Kendall Cty (Other)	Judge Gooden.	GBRA	12/12 Completed survey received and faxed to Herb Grubb.
14	Bexar Reg Wat Prov_Kirby	Mayor Martin	None	12/28 Completed survey received and faxed to Herb Grubb.
15	Bexar Reg Wat Prov_Lackland AFB	Ronald Schraven	None	01/23/02 Received letter stating that they would be unable to comply with our request for information.
16	Bexar Reg Wat Prov_Leon Valley	Mayor Meffert	SAWS	12/21 Completed survey received and faxed to Herb Grubb.
17	Bexar Reg Wat Prov_Live Oak	Mayor Edwards	SAWS	12/27 Completed survey received and faxed to Herb Grubb.
18	Bexar Reg Wat Prov_Olmos Park	Mayor Dubinski	SAWS	12/27 Completed survey received and faxed to Herb Grubb.
19	Bexar Reg Wat Prov_Randolph AFB	Janie Gunter	None	01/23/02 Received letter stating that they would be unable to comply with our request for information.

20	Bexar Reg Wat Prov_Shavano Park	Mayor Peyton	None	01/03/02 Completed survey received and faxed to Herb Grubb.
21	Bexar Reg Wat Prov_Terrill Hills	Mayor Matthews	SAWS	12/13 Completed survey received and faxed to Herb Grubb.
22	Bexar Reg Wat Prov_Universal City	Mayor Becken	None	12/28 Completed survey received and faxed to Herb Grubb.
23	Carrizo Aquifer_Atascosa Rural Area	Judge Herber	None	12/27 Completed survey received and faxed to Herb Grubb.
24	Carrizo Aquifer_Carrizo Springs	Mayor Martinez	None	12/26 Completed survey received and faxed to Herb Grubb.
25	Carrizo Aquifer_Floresville	Mayor Ramirez	None	12/17 completed survey received and faxed to Herb Grubb.
26	Carrizo Aquifer_Lockhart	Mayor Sanders	None	12/27 Completed survey received and faxed to Herb Grubb.
27	Edwards Transfers_Castroville	Mayor Hancock	None	01/02/02 Completed survey received and faxed to Herb Grubb.
28	Edwards Transfers_Devine	Mayor Lopez	None	02/13/02 Completed survey received and faxed to Herb Grubb.
29	Edwards Transfers_Hondo	Mayor Barden	None	12/28 Completed survey received and faxed to Herb Grubb.
30	Edwards Transfers_LaCoste	Mayor Keller	None	12/4 Completed survey received and faxed to Herb Grubb.
31	Edwards Transfers_Lytle	Mayor Fincher	None	02/12/02 Completed survey received and faxed to Herb Grubb
32	Edwards Transfers_Medina Cty Rural Areas (Cty Other)	Judge Montgomery	None	12/28 Completed survey received and faxed to Herb Grubb.
33	Edwards Transfers_Sabinal	Mayor Wisnieski	None	12/31 Completed survey received and faxed to Her Grubb.
34	Edwards Transfers_Uvalde	Mayor Garza	None	11/30 Survey mailed.; 12/10 Spoke with Rachael. Faxed copy of survey to Mayor and City Manager.; 12/27 Spoke with Michael Samarripa. Left message for City Manager to cal me. Mayor out of the office. 2/11/02 Left message for City manager to call me regarding survey and deadline. Mayor and Water supt. Out of office.
35	GBRA Contract Renewal_Kyle	Mayor Adkins	GBRA	11/30 Survey mailed.; 12/11 Left message for Minerva Falcon regarding survey and meeting on 12/13.; 12/27 Spoke with Ms. Falcon. She did not know of the survey. Faxed it to her and she will respond asap. 2/11/02 Left voice mail. Asked her to call me and told her about the deadline of 2/13/02 for return of survey.
36	GBRA Contract Renewal_Port Lavaca	Mayor Davila	GBRA	01/14/02 Completed survey received and faxed to Herb Grubb.
37	Implementation Phase_Fair Oaks Ranch	Mayor Gaubatz	GBRA	12/26 Completed survey received and faxed to Herb Grubb.
38	Implementation Phase_Schertz	Mayor Baldwin	None	01/18/02 Completed survey received and faxed to Herb Grubb.
39	Implementation Phase_Seguin	Mayor Stautzenberger	None	01/11/02 Completed survey received and faxed to Herb Grubb.
40	Maj Prov_Bexar MWD	Tom Moreno	Bexar Met, CRWA & GBRA	01/02/02 Completed survey received and faxed to Herb Grubb.
41	Maj Prov_SAWS	Gene Habiger	SAWS & GBRA	12/28 Completed survey received and faxed to Herb Grubb.
42	Projected Needs_Boerne	Mayor Heath	GBRA	12/28 Completed survey received and faxed to Herb Grubb.

43	Projected Needs_Comal County Other	Judge Scheel	CRWA & GBRA	11/30 Survey mailed.; 12/28 Spoke to Debbie, Secretary to Judge. Judge is out of the office until 1/7/2. She doesn't know anything about the survey, nor does the Finance Dept. Faxed her the survey. She said she would give it to the Judge when he returned. 02/11/02 Spoke with Debbie, Secretary to the Judge. She does not know what happened to the survey. Faxed it to her again and she said she would give it to him but could not promise anything. Told her about the deadline.
44	Projected Needs_Garden Ridge	Mayor Feibelman	GBRA	01/18/02 Completed survey received and faxed to Herb Grubb.
45	Projected Needs_Guadalupe Cty Rural Areas (Cty Other)	Judge Sagebiel	CRWA	01/02/02 Completed survey received and faxed to Herb Grubb.
46	Projected Needs_Hays Cty Rural Areas (Cty Other)	Judge Powers	CRWA & GBRA	11/28 Survey mailed.; 12/27 Left voice mail regarding survey and deadline. Lorraine, County Secretary, returned my call. Judge is out of town until after new year. I faxed her the survey and asked her to try and get it complete by end of next week. 02/11/02 out of office. Left message for her to call me and about the deadline.
47	Projected Needs_Maj Prov_New Braunfels	Wesley Hamff, NB Water Utilities	GBRA	02/12/02 Completed survey received and faxed to Herb Grubb
48	Projected Needs_Maj Prov_San Marcos	Larry Gilley, City Manager	GBRA	11/30 Survey mailed.; 12/27 Spoke with Janis Hendrix, City Secretary. Tom Tagger, Dir. Of Water/wastewater has completed the portions he could and sent it on to Bill White, Dir. Of Finance. He has it now and will try to get it to us by first week of 2002/ 02/11/02 Left voice mail for Mr. White regarding deadline for survey return.
49	Projected Needs_Wimberley	Mayor Hewlett	GBRA	12/28 Completed survey received and faxed to Herb Grubb.

## ***Appendix C***

### ***IFR Template***

WUG NAME	COURT	BASIS	WMS NAME	CAP. COST	Strategy Implementation Date	How much can P.S. afford from current Utility revenue sources?	If Accessing State Participation Program, how much can P.S. afford from current utility revenue sources?	How much is P.S. unable to pay for WMS?	Notes
<b>Please do not alter populated fields.</b>									
ALAMO HEIGHTS	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$158,108.00	2000	\$168,108.00	N/A	\$0.00	Possibly finance through State or Federal funds such as grants.
ALAMO HEIGHTS	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$3,127,712,366.00	2000	\$119,306.00	Unknown	\$11,810,760.00	
BALCONES HEIGHTS	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$99,572.00	2000	0'	0'	0'	* Included in SAWS response as per Fred Arce, 1/4/02
BALCONES HEIGHTS	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	0'	0'	0'	* Included in SAWS response as per Fred Arce, 1/4/02
BIG WELLS	064	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$18,991.00	2000				
BOERNE	130	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$156,478.00	2000	\$156,478.00	\$156,478.00	\$0.00	
BOERNE	130	19	PROVIDER)	\$67,196,000.00	2050	\$8,399,500.00	\$8,399,500.00	\$0.00	Financed from revenue bond issue.
BOERNE	130	19	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	\$0.00	2000	N/A	N/A	N/A	Project is in the implementation phase.
CARRIZO SPRINGS	064	21	CARRIZO AQUIFER - LOCAL SUPPLY (SCTN-2A)	\$14,931,000.00	2000	\$414,700.00	\$829,400.00	\$1,244,100.00	Would consider these additional funding sources: 1) Texas Water Development Board, 2) Rural Development, 3) Economic Development Administration, 4) Texas Department of Housing & Community Affairs.
CARRIZO SPRINGS	064	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$128,922.00	2000	\$38,600.00	\$51,500.00	\$77,400.00	Would consider these additional funding sources: 1) Texas Water Development Board, 2) Rural Development, 3) Economic Development Administration, 4) Texas Department of Housing & Community Affairs.
CASTLE HILLS	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$100,994.00	2000	\$100,994.00	N/A	N/A	
CASTLE HILLS	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$2,982,517.00	\$2,982,517.00	\$5,965,033.00	
CASTROVILLE	163	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$56,187.00	2000	\$0.00	\$0.00	\$56,187.00	City does not anticipate a shortage (need).
CASTROVILLE	163	19	EDWARDS IRRIGATION TRANSFERS (L-15)	\$0.00	2000	\$0.00	\$0.00	\$0.00	City does not anticipate a shortage (need).
CHARLOTTE	007	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$27,836.00	2000				
CHINA GROVE	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$26,185.00	2000	0'	0'	0'	* Included in SAWS response as per Fred Arce, 1/4/02
CHINA GROVE	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	0'	0'	0'	* Included in SAWS response as per Fred Arce, 1/4/02
CONVERSE	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000				
COTULLA	142	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$72,563.00	2000				
CRYSTAL CITY	254	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$132,198.00	2000				
CUERO	062	18	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$153,319.00	2000				
DEVINE	163	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$73,782.00	2000	\$7,378.00	\$7,378.00	\$66,404.00	
DEVINE	163	21	EDWARDS IRRIGATION TRANSFERS (L-15)	\$0.00	2000	\$0.00	\$0.00	\$0.00	No expenditures required.
DILLEY	082	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$57,740.00	2000				
ELMENDORF	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	0'	0'	0'	* Included in SAWS response as per Fred Arce, 1/4/02
FAIR OAKS RANCH	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$15,021.00	2000	\$15,021.00	\$15,021.00	\$0.00	The City of Fair Oaks Ranch plans to participate in the Western Canyon Regional Supply Project. This Regional Water Provider project would duplicate the surface water provided from Canyon Lake and is not required to satisfy our projected needs. If the Canyon Lake project is not implemented this avenue would have to be considered.
FAIR OAKS RANCH	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$0.00	\$0.00	N/A	This project is expected to be funded by issuing Bonds supported by the project participants. The costs of extending the facilities internally within Fair Oaks Ranch will be borne by the Utilities' customers/ratepayers.
FAIR OAKS RANCH	015	19	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	\$0.00	2000	-	-	-	
FAIR OAKS RANCH	046	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$15,021.00	2000	\$15,021.00	\$15,021.00	\$0.00	The City of Fair Oaks Ranch plans to participate in the Western Canyon Regional Supply Project. This Regional Water Provider project would duplicate the surface water provided from Canyon Lake and is not required to satisfy our projected needs. If the Canyon Lake project is not implemented this avenue would have to be considered.
FAIR OAKS RANCH	046	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$0.00	\$0.00	N/A	This project is expected to be funded by issuing Bonds supported by the project participants. The costs of extending the facilities internally within Fair Oaks Ranch will be borne by the Utilities' customers/ratepayers.
FAIR OAKS RANCH	046	19	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	\$0.00	2000	-	-	-	
FAIR OAKS RANCH	130	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$15,020.00	2000	\$15,021.00	\$15,021.00	\$0.00	The City of Fair Oaks Ranch plans to participate in the Western Canyon Regional Supply Project. This Regional Water Provider project would duplicate the surface water provided from Canyon Lake and is not required to satisfy our projected needs. If the Canyon Lake project is not implemented this avenue would have to be considered.
FAIR OAKS RANCH	130	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$0.00	\$0.00	N/A	



NEW BRAUNFELS	094	18	ADDITIONAL STORAGE (ASR AND/OR SURFACE)	\$0.00	2000	\$0.00	\$0.00	\$0.00
NEW BRAUNFELS	094	18	CANYON RESERVOIR - RIVER DIVERSION (G-15C)	\$0.00	2000	\$0.00	\$0.00	\$0.00
NEW BRAUNFELS	094	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2040	\$0.00	\$0.00	\$0.00
NEW BRAUNFELS	094	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2040	\$0.00	\$0.00	\$0.00
NEW BRAUNFELS	094	18	GBRA CANYON RESERVOIR CONTRACT RENEWAL	\$0.00	2001	\$0.00	\$0.00	\$0.00
OLMOS PARK	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$60,814.00	2000			
OLMOS PARK	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000			
PEARSALL	082	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$117,689.00	2000			
PLEASANTON	007	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$197,358.00	2000			
PORT LAVACA	029	17	GBRA CANYON RESERVOIR CONTRACT RENEWAL	\$0.00	2008	N/A	N/A	N/A
POTEET	007	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$56,700.00	2000			
POTH	247	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$37,828.00	2000			
RANDOLPH AFB	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$78,707.00	2000			
RANDOLPH AFB	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000			
REFUGIO	196	20	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$72,725.00	2000			
SABINAL	232	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$38,624.00	2000	\$0.00	\$0.00	\$38,624.00
SABINAL	232	21	EDWARDS IRRIGATION TRANSFERS (L-15)	\$0.00	2000	\$0.00	\$0.00	\$0.00
SAN ANTONIO	015	19	AQUIFER STORAGE & RECOVERY - REGIONAL (SCTN-1A)	\$115,402,000.00	2000	\$115,402,000.00	\$115,402,000.00	\$0.00
SAN ANTONIO	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$50,865,629.00	2000	\$50,865,629.00	\$50,865,629.00	\$0.00
SAN ANTONIO	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$0.00	\$0.00	\$2,284,122,507.00
SAN ANTONIO	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$0.00	\$0.00	\$0.00
SAN ANTONIO	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$0.00	\$0.00	\$0.00

Will pursue whatever State funding is available at the time. The revenues generated by the City water system are inadequate and is subsidized by electric revenues.

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Olmos Park contracts with SAWS for water service. SAWS pays the City a 2% franchise fee annually, approximately \$8,000 to \$10,000. The City has no control over water rates.

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There are no capital costs associated with this strategy.

Unable to provide requested information.  
Unable to provide requested information.

Could finance through grants and/or low interest loans.

SAWS local ASR Project is currently under design. This project will be funded through the existing water supply fee.

SAWS continues to have one of the most aggressive Conservation Programs in the country. SAWS is committed to continue this program into the future and has a funding mechanism in place to meet these goals. Due to a federal lawsuit that was filed to protect endangered species, the Edwards Aquifer is now a limited resource. This has initiated SAWS to develop alternative supplies to meet existing and future water needs. SAWS has already begun that water resources development program and has a funding mechanism in place to fund water supply projects over the next five years. However, SAWS will be actively seeking federal and state dollars to lessen the rate impacts to our customers.

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SAN ANTONIO	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$0.00	\$0.00	\$0.00
SAN ANTONIO	015	19	SAWS RECYCLED WATER PROGRAM	\$209,231,000.00	2010	\$125,000,000.00	\$125,000,000.00	\$84,231,000.00
SAN ANTONIO	015	19	SIMSBORO AQUIFER (SCTN-3C)	\$0.00	2000	\$0.00	\$0.00	\$389,394,583.00
SAN ANTONIO	015	19	SIMSBORO AQUIFER (SCTN-3C)	\$0.00	2000	\$0.00	\$0.00	\$389,394,583.00
SAN ANTONIO	015	19	SIMSBORO AQUIFER (SCTN-3C)	\$389,394,583.00	2000	\$0.00	\$0.00	\$0.00
SAN ANTONIO	015	19	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	\$0.00	2000	N/A	N/A	N/A
SAN MARCOS	105	18	ADDITIONAL STORAGE (ASR AND/OR SURFACE)	\$21,970,000.00	2000			
SAN MARCOS	105	18	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$1,008,282.00	2000			
SAN MARCOS	105	18	GBRA CANYON RESERVOIR CONTRACT RENEWAL	\$0.00	2047			
SAN MARCOS	105	18	NEW COLORADO RIVER DIVERSION OPTION	\$135,849,397.00	2025			
SAN MARCOS	105	18	PURCHASE WATER FROM MAJOR PROVIDER	\$22,077,664.00	2000			
SCHERTZ	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$27,257.00	2000	\$27,257.00	\$27,257.00	\$0.00
SCHERTZ	015	19	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000	N/A	N/A	N/A
SCHERTZ	046	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$50,223.00	2000	\$50,223.00	\$50,223.00	\$0.00
SCHERTZ	046	19	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000	N/A	N/A	N/A
SCHERTZ	094	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$50,222.00	2000	\$50,222.00	\$50,222.00	\$0.00
SCHERTZ	094	19	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000	N/A	N/A	N/A
SEGUIN	094	18	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$445,612.00	2000	\$0.00	\$0.00	\$445,612.00
SEGUIN	094	18	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000	N/A	N/A	N/A
SHAVANO PARK	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$32,826.00	2000	\$0.00	\$0.00	\$32,826.00

Due to a federal lawsuit that was filed to protect endangered species, the Edwards Aquifer is now a limited resource. This has initiated SAWS to develop alternative supplies to meet existing and future water needs. SAWS has already begun that water resources development program and has a funding mechanism in place to fund water supply projects over the next five years. However, SAWS will be actively seeking federal and state dollars to lessen the rate impacts to our customers.

SAWS current 35,000 acft/yr recycled water program is 99% constructed and had been funded through existing rates and water supply fee. However, the additional cost for the expansion of the project is not currently funded.

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Project is in the implementation phase.

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The City of Seguin was not aware of the Demand Reduction Project and its estimated \$445,612 cost, therefore it has not been discussed and they are unable to make a financial commitment at this time.

This project has already been funded by the Cities of Seguin and Schertz and bonds to finance the project have been issued.

Demand reduction (conservation programs) have been implemented and are showing positive results. Costs to continue the program are minimal and should require no outside assistance.



SHAVANO PARK	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$0.00	\$0.00	\$7,953,337.00
SOMERSET	015	19	CARRIZO AQUIFER - BEXAR & GUADALUPE (BMWD)	\$0.00	2000	\$0.00	\$0.00	\$0.00
STOCKDALE	247	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$31,552.00	2000			
TERRELL HILLS	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$103,720.00	2000			
TERRELL HILLS	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000			
UNIVERSAL CITY	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$912,029.00	2000	\$912,029.00	\$912,029.00	\$0.00
UNIVERSAL CITY	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000	\$39,766,887.00	\$39,766,887.00	\$0.00
UVALDE	232	21	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$293,207.00	2000	\$0.00	\$0.00	\$0.00
UVALDE	232	21	EDWARDS IRRIGATION TRANSFERS (L-15)	\$0.00	2000	\$0.00	\$0.00	\$0.00
VICTORIA	235	17	PURCHASE WATER FROM MAJOR PROVIDER	\$0.00	2000			
VICTORIA	235	18	PURCHASE WATER FROM MAJOR PROVIDER	\$0.00	2000			
WAEOLDER	089	18	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$17,984.00	2000			
WIMBERLEY	105	18	CANYON RESERVOIR (G-24)	\$14,814,809.00	2050	\$0.00	\$0.00	\$4,396,086.00
WINDCREST	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$115,113.00	2000			
COUNTY-OTHER	007	19	CARRIZO AQUIFER - LOCAL SUPPLY (SCTN-2A)	\$39,600,000.00	2030	\$0.00	\$0.00	\$39,600,000.00
COUNTY-OTHER	015	19	LAKE DUNLAP WTP EXPANSION & MID-CITIES WATER TRANSMISSION SYS (CRWA)	\$0.00	2000	\$0.00	\$0.00	\$0.00
COUNTY-OTHER	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000			
COUNTY-OTHER	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000			
COUNTY-OTHER	015	19	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	\$0.00	2000			
COUNTY-OTHER	015	21	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000			
COUNTY-OTHER	046	18	CANYON RESERVOIR - RIVER DIVERSION (G-15C)	\$0.00	2000			
COUNTY-OTHER	046	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2030			
COUNTY-OTHER	046	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2030			
COUNTY-OTHER	046	18	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	\$0.00	2000			
COUNTY-OTHER	046	19	CANYON RESERVOIR - RIVER DIVERSION (G-15C)	\$0.00	2000			
COUNTY-OTHER	046	19	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2030			
COUNTY-OTHER	046	19	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2030			
COUNTY-OTHER	046	19	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	\$0.00	2000			
COUNTY-OTHER	094	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000	\$0.00	\$0.00	\$0.00
COUNTY-OTHER	094	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000	\$0.00	\$0.00	\$0.00
COUNTY-OTHER	094	18	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000	\$0.00	\$0.00	\$0.00
COUNTY-OTHER	094	19	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000			
COUNTY-OTHER	094	19	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000			
COUNTY-OTHER	094	19	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000			
COUNTY-OTHER	105	18	CANYON RESERVOIR (G-24)	\$0.00	2000			
COUNTY-OTHER	105	18	HAYS/H35 WATER SUPPLY PROJECT	\$0.00	2000			
COUNTY-OTHER	105	18	NEW COLORADO RIVER DIVERSION OPTION	\$0.00	2025			
COUNTY-OTHER	130	19	PURCHASE WATER FROM MAJOR PROVIDER (GBRA)	\$0.00	2000			
COUNTY-OTHER	130	19	PROVIDER)	\$0.00	2000			
COUNTY-OTHER	163	19	EDWARDS IRRIGATION TRANSFERS (L-15)	\$0.00	2000	N/A	N/A	N/A
MANUFACTURING	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2030			
MANUFACTURING	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2030			
MANUFACTURING	046	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2040			
MANUFACTURING	046	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2040			
MANUFACTURING	094	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000			
MANUFACTURING	094	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000			
MANUFACTURING	094	18	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000			
MANUFACTURING	130	19	PURCHASE WATER FROM MAJOR PROVIDER (GBRA)	\$0.00	2000			
MANUFACTURING	130	19	PROVIDER)	\$0.00	2000			
STEAM ELECTRIC POWER	007	21	CARRIZO AQUIFER - LOCAL SUPPLY (SCTN-2A)	\$0.00	2040			
STEAM ELECTRIC POWER	094	18	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000			
MINING	007	21	CARRIZO AQUIFER - LOCAL SUPPLY (SCTN-2A)	\$0.00	2030			

Shavano Park is of the opinion that their projected shortfall will not exceed 100 acft/yr as compared to the 1,000 plus acft/yr shortfall shown in the study. Based on those adjustments, their annual costs will range from \$32,000 to \$85,000 per year. Shavano Park has not determined how to pay for the proposed shortage. Project is in the implementation phase.

Finance through grant money.  
Finance through grant money.  
No response.

The Village of Wimberley is in the planning stages for water/wastewater in the future. Currently, water for most of the village is provided by a private water supply corporation. Since the village is newly incorporated it does not own any utility and has no revenue for such. The village has begun discussions with the GBRA to determine ways to acquire surface water to supplement the aquifer water. The village is interested in considering multiple funding sources.

The County has no utility revenue sources. The County continues to raise taxes just to meet service and public safety demands. The County would approach the Evergreen UWCD for assistance in funding. Project is in the implementation phase. This WUG part of the project is \$33,500,000.

Project is in the implementation phase.

MINING	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000
MINING	015	21	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000
MINING	046	18	CANYON RESERVOIR - RIVER DIVERSION (G-15C)	\$0.00	2000
MINING	046	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2020
MINING	046	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2020
MINING	094	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000
MINING	094	18	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000
MINING	094	19	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000
MINING	094	19	CARRIZO AQUIFER - GONZALES & BASTROP (CZ-10D)	\$0.00	2000
MINING	105	18	HAYS/H35 WATER SUPPLY PROJECT	\$0.00	2000
MINING	163	19	EDWARDS IRRIGATION TRANSFERS (L-15)	\$0.00	2000
IRRIGATION	007	19	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-ATASCOSA COUNTY)	\$0.00	2000
IRRIGATION	007	21	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-ATASCOSA COUNTY)	\$7,016,220.00	2000
IRRIGATION	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-BEXAR COUNTY)	\$0.00	2000
IRRIGATION	015	21	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-BEXAR COUNTY)	\$4,521,312.00	2000
IRRIGATION	082	21	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-FRIO COUNTY)	\$10,436,580.00	2000
IRRIGATION	094	18	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-GUADALUPE COUNTY)	\$0.00	
IRRIGATION	128	19	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-KARNES COUNTY)	\$0.00	
IRRIGATION	163	19	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-MEDINA COUNTY)	\$0.00	2000
IRRIGATION	163	21	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-MEDINA COUNTY)	\$11,867,328.00	2000
IRRIGATION	232	21	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-LVALDE COUNTY)	\$14,142,816.00	2000
IRRIGATION	235	18	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-VICTORIA COUNTY)	\$0.00	
IRRIGATION	254	21	DEMAND REDUCTION (CONSERVATION) (L-10 IRR-ZAVALA COUNTY)	\$6,842,160.00	2000
BMWD (OTHER SUBDNS)	015	19	CARRIZO AQUIFER - BEXAR & GUADALUPE (BMWD)	\$0.00	2000
BMWD (OTHER SUBDNS)	015	19	CARRIZO AQUIFER - BEXAR & GUADALUPE (BMWD)	\$0.00	2000
BMWD (OTHER SUBDNS)	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$1,371,793.00	2000
BMWD (OTHER SUBDNS)	015	19	(CRWA)	\$0.00	2000
BMWD (OTHER SUBDNS)	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000
BMWD (OTHER SUBDNS)	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000
BMWD (OTHER SUBDNS)	015	19	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	\$0.00	2000
SCHERTZ (OUTSIDE CITY)	015	19	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	\$27,257.00	2000
SCHERTZ (OUTSIDE CITY)	015	19	SCHERTZ-SEGUIN WATER SUPPLY PROJECT (CARRIZO)	\$0.00	2000
SAN ANTONIO	015	19	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	\$0.00	2000
MINING	089	18	NO MANAGEMENT STRATEGY IDENTIFIED	\$0.00	

No strategy identified  
No projected need in plan.

No projected need in plan.

Project is in the implementation phase.  
Project is in the implementation phase.

No projected need in plan.

Total

\$4,662,437,095.00

N/A	N/A	N/A
N/A	N/A	N/A
\$1,371,793.00	\$1,371,793.00	N/A
\$0.00	\$0.00	\$140,377,112.00
\$0.00	\$0.00	\$0.00

***Appendix D***

***Texas Water Development Board Review Letter, with  
Responses***

May 23, 2002

Mr. Greg Rothe  
San Antonio River Authority  
100 East Gunther Street  
San Antonio, Texas 78283

RE: Regional Water Planning Grant Contract Between the San Antonio River Authority (SARA) and the Texas Water Development Board (Board), Contract No. 2002-483-435, Review of Draft Final Reports Entitled "Infrastructure Financing Report"

Dear Mr. Rothe:

Staff members of the Texas Water Development Board have completed a review of the draft report under Contract No. 2002-483-435. As stated in the above referenced contract, the SARA will consider incorporating comments from the EXECUTIVE ADMINISTRATOR shown in Attachment 1 and other commentors on the draft final report into a final report. The SARA must include a copy of the EXECUTIVE ADMINISTRATOR's comments in the final report.

The Board looks forward to receiving one (1) electronic copy, one (1) unbound single-sided camera-ready original, and nine (9) bound double-sided copies of the final report on this planning project.

Please contact Mr. Ralph Boeker at (512) 936-0851 if you have any questions about the Board's comments.

Sincerely,

William F. Mullican, III  
Deputy Executive Administrator  
Office of Planning

Cc: Ralph Boeker, TWDB

ATTACHMENT 1  
TEXAS WATER DEVELOPMENT BOARD  
TWDB Contract No. 2002-483-435

**REPORT COMMENTS**

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1. The required number of follow-up contacts with the City of San Marcos after the survey was mailed out is not documented in Appendix B.

**Response: Appendix B has been corrected to show that San Marcos was contacted on 12/27 and again on 02/11/02.**

2. According to the guidelines for the IFR, "For the water user groups based on county aggregates, such as livestock or mining, where no political subdivision is responsible for the provision of water supplies, no survey will be necessary. However, in those cases, the RWPG will need to include summary discussions detailing probable mechanisms for meeting those needs." Such a discussion should be included in the final IFR report for this region.

**Response: Subsection 4.2, entitled, "Aggregated Water User Groups has been added to the report on page 4-6.**

3. The scope of work calls for informational meetings with representatives of various water user groups. The final report should briefly describe these meetings.

**Response: Two meetings were held with water user groups. Text was added to Section 3 of the report that documents the location, dates, purpose, and participation in these meetings.**

4. The Final IFR report survey results must be submitted to the Board using the original template spreadsheet format, including all original template data fields and data, that was provided by the Board to the Contractor, per the Contract. Contractor may submit additional supporting information deemed to be useful as long as it is identified to be separate from the original template.

**Response: A copy of the original template is included as Appendix C, and an electronic copy was provided along with the printed copies of the report.**

## ***Appendix E***

### ***Completed Surveys***

**Completed Surveys on Following Pages**

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: City of Alamo Heights

Contact Person: PAUL JONTAG Title: CITY ENGINEER

Telephone: 210-826-0576 E-mail: \_\_\_\_\_

**Background:** On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: **Moorhouse Associates**  
Address: **5826 Bear Lane**  
**Corpus Christi, TX 78405**

Telephone: **361/883-6016**  
Fax: **361/883-7417**  
E-mail: **maggie@moorhousecc.com**

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

Post-it® Fax Note	7671	Date	12-29-01	# of pages	4
To	Moorhouse Assoc. Inc.	From	PAUL JONTAG		
Co./Dept.		Co.	CITY OF ALAMO HEIGHTS		
Phone #		Phone #	210-826-0576		
Fax #	361-883-7417	Fax #	210-822-5181		

**Recommended Water Management Strategies for  
The City of Alamo Heights**

<b>Political Subdivision</b>	<b>Strategy</b>	<b>Strategy Implementation Date</b>	<b>Total Capital Cost</b>
City of Alamo Heights	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$168,108
City of Alamo Heights	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)	2000	\$11,930,066
<b>Total</b>			<b>\$12,098,174</b>

\*City of Alamo Heights pro-rata share (based on year 2050 needs) of the Total Capital Cost for water management strategies recommended for implementation by the Regional Water Provider(s) for Bexar County. See following table for costs of these water management strategies.



## WATER INFRASTRUCTURE FINANCING SURVEY

**Instructions:** For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Alamo Heights

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost: \$ 168,108

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 168,108

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ —

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ —

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Alamo Heights

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 11,950,066

### PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 119,306 (1%)

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ unknown

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 11,810,760

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

GRANTS - STATE OR FEDERAL FUNDS

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Balcones Heights

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 7,953,377

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0\*

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0\*

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0\*

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Included in SAWS response as per Fred Arce, 1/4/02.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Balcones Heights

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 99,572

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0\*

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0\*

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0\*

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Included in SAWS response as per Fred Arce, 1/4/02.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: China Grove

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 3,976,689

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0\*

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0\*

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0\*

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Included in SAWS response as per Fred Arce, 1/4/02.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: China Grove

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 26,185

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0\*

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0\*

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0\*

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Included in SAWS response as per Fred Arce, 1/4/02.

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Elmendorf

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$795,338

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0\*

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0\*

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0\*

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Included in SAWS response as per Fred Arce, 1/4/02.

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



**DEPARTMENT OF THE AIR FORCE**  
**AIR EDUCATION AND TRAINING COMMAND**

IAN 23 2002

HQ AETC/CE  
266 F Street West  
Randolph AFB TX 78150-4319

Ms. Maggie Moorhouse  
Moorhouse Associates  
5826 Bear Lane  
Corpus Christi TX 78405

Dear Ms. Moorhouse

In November we received a letter from Evelyn Bonavita of South Central Texas Regional Water Planning Group requesting help in completing a survey directed by the Texas Legislature concerning the financing of future improvements to local water systems. Your 13 December meeting was very informative and helped explain the circumstances that led up to the survey and its intent.

The survey requests information on the ability of Randolph AFB, Lackland AFB, and Ft Sam Houston to provide funds to meet future improvements to local water systems. The survey requests specific information for two initiatives. The first is identified as \$78,707, \$182,384, and \$246,442, respectively, for "Demand Reduction (Conservation) (L-10 MUN)" and the second is \$7,953,377, \$11,930,066, and \$11,930,066, respectively, for "Purchase/Participate with Regional Water Provider(s)." While we would like to assist you in the compilation of this data, we cannot provide the information requested.

As federal agencies, Randolph AFB, Lackland AFB, and Ft Sam Houston evaluate requirements for water and complete arrangements for purchase under federal procurement rules. As water requirements are identified, sources will be identified and evaluated and appropriate arrangements made for the necessary supply. We are unable to provide information on the future commitment or expenditure of funds for this purpose.

Should you have any questions or require additional information, please have your staff contact Ms. Janie Gunter, HQ AETC/CEOE, (210) 652-2774, fax 652-3597, e-mail [barbara.gunter@Randolph.af.mil](mailto:barbara.gunter@Randolph.af.mil).

Sincerely

A handwritten signature in black ink that reads "R. Gilbert".

RUSSELL L. GILBERT  
Colonel, USAF  
The Civil Engineer



## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Helotes

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 3,976,689

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0\*

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0\*

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0\*

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Included in SAWS response as per Fred Arce, 1/4/02.

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Helotes

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 37,354

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0\*

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0\*

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0\*

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Included in SAWS response as per Fred Arce, 1/4/02.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



# CITY OF KIRBY

112 BAUMAN STREET

KIRBY, TEXAS 78218-1098

AREA CODE 210  
661-6671 & 661-3198  
FAX 661-4525

December 26, 2001

Moorhouse Associates, Inc  
5826 Bear Lane  
Corpus Christi, Texas 78405

RE: Infrastructure Financing Survey

Upon review of the survey, the City of Kirby request information on the how the assumption for additional water needs for our community was determined. The City of Kirby is 2.2 sq miles and we do not anticipate no more than 10% growth over the next 50 years.

The City of Kirby submits the following responses to the 4 questions presented in the survey:

1. The City of Kirby is unable to provide exact dollar cost information. The City of Kirby has the capability of raising fees and rates, but we must consider the impact on our citizens.
2. The City of Kirby is interested in the State Participation Program, but we are not able to determine what the ratepayers could afford.
3. The City of Kirby is not able to make a true determination regarding what we would be unable to pay.
4. The City of Kirby would like more information regarding the program.

If you need any additional information, please contact me at 210-661-3198.

Sincerely,

*Zina Tedford*

A handwritten signature, likely 'Zina Tedford', is enclosed within a hand-drawn circle.

Zina Tedford  
City Manager

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: Leon Valley

Contact Person: Patrick Wright Title: Director of Pub. Wks

Telephone: 210-681-1232 E-mail: \_\_\_\_\_

**Background:** On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

**Please return the completed survey by December 31, 2001 to:**

**Name:** Moorhouse Associates  
**Address:** 5826 Bear Lane  
Corpus Christi, TX 78405

**Telephone:** 361/883-6016  
**Fax:** 361/883-7417  
**E-mail:** [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

**If you have any questions regarding this survey, please contact:**  
**Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.**

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Leon Valley

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MTIN)

Capital Cost\*: \$233,003

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ None.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ None.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 233,003.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

Leon Valley has already adopted toilet rebate and high efficiency washing machine rebate programs along with leak detection and other water management strategies. All other cost would require state rebate programs.

The information on the Leon Valley water supply plan is totally incorrect. Leon Valley does not have room to grow much more than to a population of 13,000 to 16,000 from the current population. The State water plan would have the City at a population of 50,000 if executed. I have attached our version of the plan which is more realistic. Please correct your data.

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Leon Valley

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost: \$ 4,772,026

- 1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 1,800,000

- 2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 1,800,000

- 3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 2,972,026

- 4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

Funding would require that new customers participate in supply acquisition cost or that the State subsidize the funding of future supplies.

The information on the Leon Valley water supply plan is **totally incorrect**. Leon Valley does not have room to grow much more than to a population of 13,000 to 16,000 from the current population. The State water plan would have the City at a population of 50,000 if executed. I have attached our version of the plan which is more realistic. Please correct your data.

Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

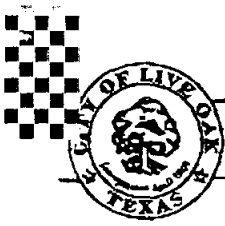
**WATER SUPPLY PLAN FOR LEON VALLEY**

	<b>YR 2000</b> <b>(ac.ft./yr)</b>	<b>2010</b> <b>(ac.ft./yr)</b>	<b>2020</b> <b>(ac.ft./yr)</b>	<b>2030</b> <b>(ac.ft./yr)</b>	<b>2040</b> <b>(ac.ft./yr)</b>	<b>2050</b> <b>(ac.ft./yr)</b>
<b>Projected Need</b> <b>(shortage)</b>	1225 (0)	1353 (358)	1495 (142)	1651 (156)	1823 (172)	2013 (190)
<b>Recommended</b> <b>plan</b>						
<b>Demand</b> <b>Reduction</b>	30	30	30	30	30	30
<b>Purchase</b>	0	328	112	126	142	160
<b>Total New</b> <b>Supply</b>	30	358	142	156	172	190

**ASSUMPTIONS**

1. City population per 2000 census is 9,239 people.
2. The San Antonio Water Company (SAWS) presently serves 900 connections in the City with a population of 2,700 people.
3. The available land and zoning in the City suggest that the ultimate growth is limited to a maximum population of 16,446 persons which is a 1% growth rate.
4. The current water demand for the customers of the Leon Valley Water System does not exceed 1225 AF/YR. This is a reduction from the historical average of 1441 AF/YR. This reduction is attributed to conservation measures implemented by Leon Valley.
5. Additional water for those Leon Valley resident customers of SAWS will be provided by SAWS.
6. A state mandated reduction of 372 AF of allowable pumping from the Edwards Formation will occur in the year 2007, with no further planned reductions.
7. The EAA will issue the City a permanent water right to pump 1182 AF/YR and the City has already purchased water rights of 185 AF/YR for a total current supply of 1367 AF/YR.

Plw\C\patsdocs\SARA\waterneeds.survey



# The City of Live Oak

8001 Shin Oak Drive · Live Oak, Texas 78233-2497 · (210) 653-9140 · Fax: (210) 653-2766 · www.ci.live-oak.tx.us

December 26, 2001

Moorhouse Associates, Inc.  
5826 Bear Lane  
Corpus Christi, Texas 78405

Re: Infrastructure Financing Survey

The following responses are provided in an attempt to answer the four questions presented in the Water Infrastructure Financing Survey:

1. The City of Live Oak is not able to provide exact dollar cost information to answer this question. The City has the capability to raise fees and rates, but has an obvious concern regarding what average ratepayers can be realistically expected to pay for service.
2. The City of Live Oak would certainly be interested in the State Participation Program, but is unable to determine the dollar amount ratepayers could afford.
3. The City of Live Oak is not able to make a valid determination regarding the amount the entity would be unable to pay.
4. The City of Live Oak would be interested in more information regarding the State Participation Program and how it could be utilized on a regional basis to address water development projects. Specifically, the City recognizes a benefit to water purveyors if the Texas Water Development Board could own excess capacity in a large regional project until such time as the customer base is developed to absorb the initial project development cost. A major issue for public agencies when developing water projects is the need to build for ultimate demand.

The City of Live Oak appreciates the opportunity to respond to the Water Infrastructure Financing Survey. Please be aware that the above responses are specific to the portion of the City that is served by the City of Live Oak Public Utilities Department. The San Antonio Water System services a portion of the City of Live Oak and will be including that area in their response to the questions.

If any additional information is needed at this time, please do not hesitate to contact me.

Sincerely,

Matt Smith  
Asst. City Manager  
City of Live Oak

*"Looking Toward The Future"*



## ATTACHMENT B

### WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: Live Oak

Contact Person: Matt Smith Title: Asst. City Mgr.

Telephone: 210-653-9140 ext. 211 E-mail: msmith@ci.live-oak.tx.us

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Live Oak

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 7,953,377

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \* See attachment.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \* See attachment.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \* See attachment.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* See attachment

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## ATTACHMENT B

### WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: Olmos Park

Contact Person: BARBARA JOSEPH Title: CITY MANAGER

Telephone: 210/824-3281 E-mail: citymanager@ci.olmos-park.tx.us

**Background:** On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405  
  
Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

WE CONTRACT WITH SAN ANTONIO WATER SYSTEMS FOR WATER SERVICE. THEY PAY US A 2% FRANCHISE FEE ANNUALLY, APPROXIMATELY \$8,000- \$10,000. WE HAVE NO CONTROL OVER WATER RATES.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Olmos Park

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost: \$60,814

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archeological studies and mitigation; land acquisition; and interest during construction.

WE CONTRACT WITH SAN ANTONIO WATER SYSTEMS FOR WATER SERVICE. THEY PAY US A 2% FRANCHISE FEE ANNUALLY, APPROXIMATELY \$8,000 - \$10,000. WE HAVE NO CONTROL OVER WATER RATES.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Olmos Park

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost: \$ 3,976,689

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

# SAN ANTONIO WATER SYSTEM

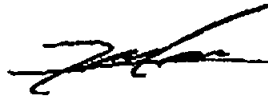
December 28, 2001

Maggie Moorhouse  
Moorhouse and Associates  
5826 Bear Lane  
Corpus Christi, TX, 78405

Dear Maggie:

Attached to this letter is the original Texas Water Development Board Survey on water infrastructure financing. This survey includes all of the existing San Antonio Water System (SAWS) service area as well as those other cities and or municipalities that either are served by SAWS or are wholesale customers. This survey does not include those cities or municipalities not served by our system. If you have any questions and or comments please do not hesitate to call me at (210) 704-7379.

Sincerely,



Fred Arce  
Manager, Resource Development  
San Antonio Water System

Attachments:

TWDB Water Infrastructure Financing Survey

## ATTACHMENT B

### WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L  
Name of Political Subdivision: San Antonio Water System (SAWS)  
Contact Person: Fred Arce Title: Manager-Resource Development  
Telephone: (210) 704-7379 E-mail: farce@saws.org

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405  
Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**Recommended Water Management Strategies for**

**San Antonio Water System (SAWS)**

<i>Political Subdivision</i>	<i>Strategy</i>	<i>Strategy Implementation Date</i>	<i>Total Capital Cost</i>
San Antonio Water System (SAWS)	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$50,865,829
San Antonio Water System (SAWS)	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT	2000	\$0
San Antonio Water System (SAWS)	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)**	2010	\$2,284,122,507
San Antonio Water System (SAWS)	SAWS RECYCLED WATER PROGRAM	2000	\$209,231,000
San Antonio Water System (SAWS)	SIMSBORO AQUIFER (SCTN-3c)	2000	\$389,394,583
San Antonio Water System (SAWS)	AQUIFER STORAGE & RECOVERY - REGIONAL (SCTN-1a)	2000	\$115,402,000
<b>Total</b>			<b>\$3,049,015,719</b>

\* As the Western Canyon Regional Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

\*\* San Antonio Water System pro-rata share (based on year 2050 needs) of the Total Capital Cost for water management strategies recommended for implementation by the Regional Water Provider(s) for Bexar County. See following table for costs of these water management strategies.



Following is a list of water management strategies recommended by the South Central Texas Regional Water Planning Group for implementation by Regional Water Provider(s) for Bexar County. Designation of Regional Water Provider(s) accounts for the fact that future water supplies may be developed by individual sponsors and/or coalitions of sponsors. Capital Cost for each water user is calculated by pro-rata share (based on year 2050) of the total Capital Cost for new water supplies recommended for implementation by Regional Water Provider(s) for Bexar County.

**Regional Water Provider(s) for Bexar County**

<b>Water Management Strategy</b>	<b>2050 Quantity (acft/yr)</b>	<b>Implementation Decade</b>	<b>Capital Cost</b>
Carrizo Aquifer - Wilson & Gonzales (CZ-10C)	16,000	2000	\$116,018,929
Lower Guadalupe River Diversions (SCTN-16)	94,500	2010	\$731,761,763
Edwards Recharge - Type 2 Projects (L-18a)	21,577	2010	\$287,183,000
Colorado River Diversion Option(LCRA)	13,2000	2020	\$978,229,411
Desalination of Seawater (SCTN-17)	84,012	2040	\$999,659,460
Bexar County - Peaking	0	2000	\$71,592,287
Edwards Irrigation Transfers (L-15)	32,986	2000	\$0*
Irrigation Demand Reduction w/ Transfers (L-10 Irr.)	27,314	2000	\$0*
<b>Totals</b>	<b>408,389</b>		<b>\$3,184,444,830</b>

\*Capital costs are not included for water management strategies that do not require significant capital investment in new facilities and will not likely be funded with loans from either the open market or the Texas Water Development Board.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Major Provider - SAWS

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 50,865,629

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 50,865,629.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 50,865,629.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ -0-.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

SAWS continues to have one of the most aggressive Conservation Programs in the country. SAWS is committed to continue this program into the future and has a funding mechanism in place to meet these goals.

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Major Provider - SAWS

Water Management Strategy Name: Western Canyon Regional Water Supply Project

Capital Cost\*: \$0.00\*\*

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ N/A.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ N/A.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) N/A

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition, and interest during construction.

\*\* As the Western Canyon Regional Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Major Provider - SAWS

Water Management Strategy Name: Purchase/Participate w/Regional Water Provider(s)

Capital Cost\*: \$2,284,122,507

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ -0-.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ -0-.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 2,284,122,507.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)  
(See attachment sheet)

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

4) Due to a federal lawsuit that was filed to protect endangered species the Edwards aquifer is now a limited resource. This has initiated the San Antonio Water System to develop alternative supplies to meet existing and future water needs. The San Antonio Water System has already begun that water resource development program and has a funding mechanism in place to fund water supply projects over the next five years. However, the San Antonio Water System will be actively seeking federal and state dollars to lessen the rate impacts to our customers.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Major Provider - SAWS

Water Management Strategy Name: SAWS Recycled Water Program

Capital Cost\*: \$209,231,000

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 125,000,000 existing project

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 125,000,000

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 84,231,000

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

SAWS current 35,000 ac/ft/yr recycled water project is 99% constructed and has been funded through existing rates and water supply fee. However, the additional cost for the expansion of the project is not currently funded.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Major Provider - SAWS

Water Management Strategy Name: Simsboro Aquifer (SCTN-3c)

Capital Cost\*: \$389,394,583

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 389,394,583.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) (see attached sheet)

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

4) Due to a federal lawsuit that was filed to protect endangered species the Edwards aquifer is now a limited resource. This has initiated the San Antonio Water System to develop alternative supplies to meet existing and future water needs. The San Antonio Water System has already begun that water resource development program and has a funding mechanism in place to fund water supply projects over the next five years. However, the San Antonio Water System will be actively seeking federal and state dollars to lessen the rate impacts to our customers.



## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Major Provider - SAWS

Water Management Strategy Name: Aquifer Storage & Recovery - Regional (SCTN-1A)

Capital Cost\*: \$115,402,000

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 115,402,000.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 115,402,000.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ -0-.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

SAWS local ASR Project is currently under design. This project will be funded through our existing water supply fee.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Shavano Park

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 7,953,377

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ -0-.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ -0-.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 7,953,337.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) Shavano Park is of the opinion that our projected short-fall will not exceed 100 AF/yr as compared to the 1000 plus AF/yr shortfall shown in the study. Based on these adjustments, our annual costs will range from \$32,000 to \$85,000 per year. Shavano Park has not determined how to pay for the proposed shortage.

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\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Shavano Park

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 32,826

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ -0-.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ -0-.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 32,826.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

Demand reduction (conservation programs) have been implemented and are showing positive results. Costs to continue the program are minimal and should require no outside assistance.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Terrell Hills

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost: \$ 7,953,377

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

All of our services provided through San Antonio Water System

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Terrell Hills

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost: \$ 103,720

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

All of our services provided through San Antonio Water System

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Universal City

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 912,029

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 100%.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 100%.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)
- Grant Money

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Universal City

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 39,766,887

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 100%

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 100%

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

Grant Money

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\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: and Goodwater  
Bexar County Rural Areas

Water Management Strategy Name: Lake Dunlap WTP Expansion & Mid - Cities Water Transmission System (CRWA)

Capital Cost: \$0.00 \$ 33,500,000.00

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 33,500,000.00

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 33,500,000.00

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) The requirements under the TWRB Federal Super-Her hoc program could become less restrictive to allow Regional projects to qualify.

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Lake Dunlap WTP Expansion & Mid - Cities Water Transmission System (CRWA) is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.



## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Castle Hills

Water Management Strategy Name Demand Reduction (Conservation) (L-10 MUN)

Capital Cost: \$ 100,994

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 100,994.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ —.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ —.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation, land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Castle Hills

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 11,930,066

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

25% or

The political subdivision can afford to pay \$ 2,982,517.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

25% or

The political subdivision can afford to pay \$ 2,982,517.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

50% or

The political subdivision cannot afford to pay \$ 5,965,033.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region LName of Political Subdivision: Castle HillsContact Person: DAVE SEYFARTH Title: MAYORTelephone: 210-342-2341 E-mail: ctycastl@flash.net

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Castle Hills

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 100,994

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ Chuck Ahrens w/BMD will supply information

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ Chuck Ahrens w/BMD will supply information

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ Chuck Ahren w/BMD will supply information

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Castle Hills

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$ 11,930,066

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ Chuck Ahrens w/EMWD will supply information

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ Chuck Ahrens w/EMWD will supply information

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ Chuck Ahrens w/EMWD will supply information

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Hill Country Village/Hollywood Park

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost: \$ 97,175

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 97,175.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ -.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ -.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Hill Country Village/Hollywood Park

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost: \$ 21,474,119

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ <sup>25% or</sup> 5,368,530.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ <sup>25% or</sup> 5,368,530.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ <sup>50% or</sup> 10,737,060.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Hill Country Village/Hollywood Park

Water Management Strategy Name: Trinity Aquifer - Bexar (BMWD)

Capital Cost: \$ 0.00\*\*

- 1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ N/A.

- 2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ N/A.

- 3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A.

- 4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak dry needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Trinity Aquifer - Bexar (BMWD) Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey



## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy

Name of Political Subdivision: Somerset

Water Management Strategy Name: Carrizo Aquifer - Bexar & Guadalupe (BMWD)

Capital Cost: \$ 0 00<sup>00</sup>

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ n/a.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ n/a.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ n/a.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Schertz-Seguin Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: Somerset

Contact Person: LARRY Joe CAPPS Title: CITY ADMINISTRATOR

Telephone: 210-622-5611 E-mail: NONE

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**Recommended Water Management Strategies for****Somerset**

<b>Political Subdivision</b>	<b>Strategy</b>	<b>Strategy Implementation Date</b>	<b>Total Capital Cost</b>
Somerset	CARRIZO AQUIFER - BEXAR & GUADALUPE (BMWD)*	2000	\$0
<b>Total</b>			\$0

\*As the Carrizo Aquifer - Bexar & Guadalupe (BMWD) Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Somerset

Water Management Strategy Name: Carrizo Aquifer - Bexar & Guadalupe (BMWD)

Capital Cost\*: \$ 0.00\*\*

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 95%

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) LOANS

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Schertz-Seguin Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: BMWD (Other Subdivisions)

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost: \$ 1,371,793

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 1,371,793

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ —

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ —

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation, land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: BMWD (Other Subdivisions)

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost: \$ 280,754,223

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

25% or

The political subdivision can afford to pay \$ 70,188,556.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

25% or

The political subdivision can afford to pay \$ 70,188,556.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

50% or

The political subdivision cannot afford to pay \$ 140,377,112.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation, land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: BMWD (Other Subdivisions)

Water Management Strategy Name: Carrizo Aquifer - Bexar & Guadalupe (BMWD)

Capital Cost: \$0.00\*\*

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs, engineering, legal, and contingencies; environmental & archaeological studies and mitigation, land acquisition, and interest during construction.

\*\* As the Carrizo Aquifer - Bexar & Guadalupe (BMWD) Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.



**BexarMet**  
WATER DISTRICT  
*"The Water Resource People"*

December 31, 2001

Ms. Maggie Moorhouse  
Moorhouse Associates  
5826 Bear Lane  
Corpus Christi, TX 78405

Dear Ms. Moorhouse:

The enclosed survey responses apply for all surveys pertaining to future improvements financing sent to Bexar Metropolitan Water District (BexarMet). Dr. Herb Grubb indicated that a single survey submittal for all BexarMet areas would be acceptable. The responses provided are BexarMet's projections today for the fifty-year planning horizon as required in the survey questionnaire. We wish to list several conditions to BexarMet's survey responses:

1. All future revenue increases for BexarMet customers must be approved by the Bexar Metropolitan Water District's elected Board of Directors. The BexarMet staff does not, and cannot speak for current or future members of our elected Board. However, our responses assume that the District will increase rates, at a minimum, that recover inflation related changes to costs.
2. BexarMet will explore all financing options available to the District, and will choose the options that provide the lowest costs to its customers.
3. State and Federal funding mechanisms beyond the current available options will be needed in order to help finance the enormous cost of acquiring additional water and delivering the water to the State's growing population.
4. Financial forecasts beyond ten years are speculative. Actual customer growth and inflation can vary substantially from projections. Actual costs for infrastructure needs can also vary substantially from projections. These three components have the most impact on future costs of providing water service.
5. Actual costs and financing alternatives can and probably will vary from the fifty-year survey projections due to variables beyond BexarMet's control.

Thomas C. Moreno  
General Manager/CEO

**BOARD OF DIRECTORS**

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Executive Offices  
2047 W. Malone  
San Antonio, Texas 78225  
Phone: (210) 354-6500  
Fax (210) 922-5152

Northwest Branch  
9823 Marbach  
San Antonio, Texas 78245  
Phone: (210) 670-3100  
Fax (210) 673-3404

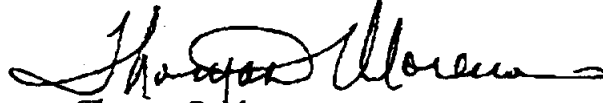
South San Branch  
2706 W. Southcross  
San Antonio, Texas 78211  
P.O. Box 245994  
San Antonio, Texas 78224-5994  
Phone: (210) 922-1221  
Fax (210) 922-1894



If you have questions regarding our survey responses, please call Mr. Michael Dutton at (210) 354-6519.

Sincerely,

**BEXARMET WATER DISTRICT**  
*The Water Resource People*



Thomas C. Moreno  
General Manager/CEO

Cc: Mr. Harold Burris  
Mr. Fred Gonzales  
Mr. Dave Seyfarth  
Mr. Lonnie C. Wulfe  
Ms. Evelyn Bonavita



**ATTACHMENT B**

**WATER INFRASTRUCTURE FINANCING SURVEY**

Region Name. South Central Texas TWDB Region L  
 Name of Political Subdivision. Bexar Metropolitan Water District (Other Subdivisions)  
 Contact Person: Michael Dutton Title. Finance/Budget Director  
 Telephone. 210 354-6519 E-mail: mkdutton@bexarwater.org

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature) The adopted regional water plans examined and analyzed the water supply needs for all water users in the State Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
 Address: 5826 Bear Lane  
 Corpus Christi, TX 78405  
 Telephone: 361/883-6016  
 Fax: 361/883-7417  
 E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Bexar Metropolitan Water District

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 1,569,962

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ <sup>100%</sup> \$ 1,569,962

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ —

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ —

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition, and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy

Name of Political Subdivision: Bexar Metropolitan Water District

Water Management Strategy Name Carrizo Aquifer-Bexar & Guadalupe (BMWD)

Capital Cost: \$0\*\*

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ n/A.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ n/A.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ n/A.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition, and interest during construction.

\*\* As the Carrizo Aquifer-Bexar & Guadalupe (BMWD) Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Bexar Metropolitan Water District

Water Management Strategy Name: Trinity Aquifer - Bexar (BMWD)

Capital Cost: \$ 0

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ N/A.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ N/A.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Trinity Aquifer-Bexar (BMWD) Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Bexar Metropolitan Water District

Water Management Strategy Name: Western Canyon Regional Water Supply Project

Capital Cost: \$0\*\*

- 1 Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ N/A.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ N/A.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Western Canyon Regional Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Bexar Metropolitan Water District

Water Management Strategy Name: Lake Dunlap WTP Expansion & Mid-Cities Water Transmission System (CRWA)

Capital Cost: \$ 0\*

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ n/a.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ n/a.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ n/a.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition, and interest during construction.

\*\* As the Lake Dunlap WTP Expansion & Mid-Cities Water Transmission System (CRWA) Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs) Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Bexar Metropolitan Water District

Water Management Strategy Name: Regional Water Provider(s) (BMWD)

Capital Cost: \$314,158,408

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

25% or

The political subdivision can afford to pay \$ 78,539,600

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

25% or

The political subdivision can afford to pay \$ 78,539,600

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

50% or

The political subdivision cannot afford to pay \$ 157,079,204

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



CITY OF CASTROVILLE  
*Little Alsace of Texas*  
1209 FIORELLA STREET



CASTROVILLE, TEXAS 78009  
(830) 931-4070  
FAX (830) 931-6373

Date: December 31, 2001

To: Maggie Moorhouse, Moorhouse Associates, Inc.

From: Bruce A. Alexander, Director of Public Works

A handwritten signature in black ink, appearing to read "Bruce A. Alexander", is written over the typed name.

Re: Water Plan for Castroville

Ms Moorhouse:

I am not familiar with the water plan prepared by the SCTRWPG and the TWDB for the City of Castroville.

I disagree with the projected need / shortage shown in table 5.3.16-2 for the City of Castroville and don't understand the need for Edwards Irrigation Transfers at this time or in the near future for Castroville.

The City of Castroville currently has two withdrawal permits issued by the Edwards Aquifer Authority. One for Municipal use - 685 acre feet - and one for Irrigation use - 472 acre feet. Our total municipal use for calendar year 2001 was 668 acre feet.

We own and lease out 236 acres of irrigated farm land with one acre foot of water and hold the other one acre foot of irrigation water in reserve to be transferred to municipal use as needed. We have offered to help small utility systems with annual transfers from irrigation to municipal use to help them comply with EAA permit limits. These transfers are on an annual basis with the understanding that when the City of Castroville requires the water, the transfers cease to exist. We are also in the process of adopting ordinances that require new subdivisions to provide water rights to the City of Castroville as a condition of annexation. All of our treated wastewater effluent is reused as irrigation and has been reused for the past 30 + years at the current rate of 275 acre feet for 2000. We await a future ruling on credits for this water reuse.

Based on current withdrawal permits, City Ordinances addressing conservation and growth, and future needs of Castroville, we don't anticipate a shortage for the City of Castroville as predicted by the SCTRWPG.

It is for this reason that I don't know how to properly answer your survey. Please call me at (830) 931-4090 if you have any questions or are in need of additional information.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Castroville

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 56,187

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

---

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Castroville

Water Management Strategy Name: Edwards Irrigation Transfers (L-15)

Capital Cost: \$ 0.00

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

**Table 5.3.16-3.  
Recommended Plan Costs by Decade for the City of Castroville**

Plan Element	2000	2010	2020	2030	2040	2050
Demand Reduction (Conservation) (L-10 Min.)						
Annual Cost (\$/yr)	\$789	\$3,276	\$2,640	\$2,388	\$2,315	\$1,496
Unit Cost (\$/act)	\$263	\$252	\$240	\$199	\$193	\$187
Edwards Irrigation Transfers (L-15)						
Annual Cost (\$/yr)	\$37,847	\$37,647	\$37,647	\$37,647	\$37,647	\$37,647
Unit Cost (\$/act)	\$80	\$80	\$80	\$80	\$80	\$80

## ATTACHMENT A

### Water Plan for Castroville

#### 5.3.16.1 City of Castroville

The City of Castroville's current water supply is obtained from the Edwards Aquifer. The City of Castroville is projected to need additional water supplies beginning in the year 2000. The following options were considered to meet the city's projected need:

- Demand Reduction (Conservation) (L-10 Mun.)
- Edwards Irrigation Transfers (L-15)

Working within the planning criteria established by the SCTRWPG and the TWDB, it is recommended that the City of Castroville implement the following water supply plan to meet the projected need for the city (Table 5.3.16-2).

- Municipal demand reduction (conservation) to be implemented in 2000. This project can provide an additional supply of up to 13 acft/yr. (See Errata Sheet, Attachment E, Table A).
- Edwards Irrigation Transfers (L-15) to be implemented in 2000. This project can provide an additional 400 acft/yr of supply from 2000 to 2050.

**Table 5.3.16-2  
Recommended Water Supply Plan for the City of Castroville**

	2000 (acft/yr)	2010 (acft/yr)	2020 (acft/yr)	2030 (acft/yr)	2040 (acft/yr)	2050 (acft/yr)
Projected Need (Shortage)	228	255	283	331	362	393
<i>Recommended Plan</i>						
Demand Reduction (Conservation) (L-10 Mun.)	3	13	11	12	12	8
Edwards Irrigation Transfers (L-15)	400	400	400	400	400	400
<b>Total New Supply</b>	<b>403</b>	<b>413</b>	<b>411</b>	<b>412</b>	<b>412</b>	<b>408</b>

The costs of the recommended plan to meet the City of Castroville's projected need are shown in Table 5.316-3.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region LName of Political Subdivision: City of CastrovilleContact Person: Bruce A. Alexander Title: Director of Public WorksTelephone: (830) 931-4090 E-mail: Ccdopw@aol.com

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**Recommended Water Management Strategies for  
The City of Castroville**

<i>Political Subdivision</i>	<i>Strategy</i>	<i>Strategy Implementation Date</i>	<i>Total Capital Cost</i>
City of Castroville	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$56,187
City of Castroville	EDWARDS IRRIGATION TRANSFERS (L-15T)	2000	\$0
<b>Total</b>			<b>\$56,187</b>

\*As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Devine

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 73,782

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 7,378.00

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 7,378.00

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 66,404.00

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

CDBG FUNDS  
DWSRF  
CWSRF

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Devine

Water Management Strategy Name: Edwards Irrigation Transfers (L-15)

Capital Cost: \$0.00

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ No Expenditures Required

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ No Expenditures Required

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ No Expenditures Required

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

N/A

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak dry needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region LName of Political Subdivision: City of HondoContact Person: JOHN VIDAUERRI Title: CITY MANAGERTelephone: (830) 426-3378 E-mail: jvidaurri@hondonet

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**Recommended Water Management Strategies for****The City of Hondo**

<b>Political Subdivision</b>	<b>Strategy</b>	<b>Strategy Implementation Date</b>	<b>Total Capital Cost</b>
City of Hondo	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$501,151
City of Hondo	EDWARDS IRRIGATION TRANSFERS (L-15)*	2000	\$0
<b>Total</b>			\$501,151

\*As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Hondo

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 501,151

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 100,230.20.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 501,151.00.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 400,920.00.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

*Community Development Block Grant Program.  
Texas Water Development Board*

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Hondo

Water Management Strategy Name: Edwards Irrigation Transfers (L-15)

Capital Cost\*: \$ 0.00\*\*

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.00.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.00.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0.00.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

NONE.

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: City of La Coste

Contact Person: Ken Roberts Title: City Administrator

Telephone: (830)985-9494 E-mail: cityoflacoste@earthlink.net

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: **Moorhouse Associates**  
Address: **5826 Bear Lane**  
**Corpus Christi, TX 78405**

Telephone: **361/883-6016**  
Fax: **361/883-7417**  
E-mail: **maggie@moorhousecc.com**

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**Recommended Water Management Strategies for  
The City of La Coste**

<b>Political Subdivision</b>	<b>Strategy</b>	<b>Strategy Implementation Date</b>	<b>Total Capital Cost</b>
City of La Coste	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$20,392
City of La Coste	EDWARDS IRRIGATION TRANSFERS (L-15)	2000	\$0
<b>Total</b>			<b>\$20,392</b>

As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of La Coste

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 20,392

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 1,000.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 2,000.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 17,392.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

1. additional charge to commercial & residential customers (total of 418 connections) for the initial 15% reduction.
2. punitive rate schedule for all residential customers with usage greater than 10,000 gal. per month.

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of La Coste

Water Management Strategy Name: Edwards Irrigation Transfers (L-15)

Capital Cost\*: \$ 0.00\*\*

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ -0-.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ -0-.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 28,236.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

1. pass thru to customer on all interest & principal costs for borrowed resources (either TWDB or commercial).

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

### WATER INFRASTRUCTURE FINANCING SURVEY

**Instructions:** For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision:

City of Lytle

Water Management Strategy Name:

Demand Reduction (Conservation) (L-10 Min.)

Capital Cost:

\$ 39,149

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?  
The political subdivision can afford to pay \$ 0.
- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?  
The political subdivision can afford to pay \$ 0.
- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?  
The political subdivision cannot afford to pay \$ 0.
- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities; facilities to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

*lytle wish to participate in any state funded conservation program. At present time we have conservation measures in place, but cannot afford the programs talked about in this survey.*

Attn: Pamela Walker / Maggie Hordhead

### WATER INFRASTRUCTURE FINANCING SURVEY

**Instructions:** For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: \_\_\_\_\_ City of Ulyle \_\_\_\_\_

Water Management Strategy Name: \_\_\_\_\_ Edwards Irrigation Transfers (L-15) \_\_\_\_\_

Capital Cost: \_\_\_\_\_ \$0.00" \_\_\_\_\_

1. Using current utility revenues sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?  
The political subdivision can afford to pay \$ N/A.
2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?  
The political subdivision can afford to pay \$ N/A.
3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?  
The political subdivision cannot afford to pay \$ N/A.
4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal and consulting; environmental & hydrological studies and mitigation; land acquisition; and interest during construction.

\*\* As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Sabinal

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost: \$ 38,624

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 38,624.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

grants and/or low interest loans.

---

Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition, and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Sabinal

Water Management Strategy Name: Edwards Irrigation Transfers (L-15)

Capital Cost\*: \$ 0.00\*\*

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Medina County Rural Areas

Water Management Strategy Name: Edwards Irrigation Transfers (L-15)

Capital Cost\*: \$ 0.00\*\*

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

*Medina County highly encourages the State program loans, etc. for rural (which or parts of the county) but is not in the water business. Rural water systems are vital to meet the growth needs of our County as well*

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the lease of Edwards Aquifer irrigation rights will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

*as other Rural Counties. It is my hope that the State will see fit to continue funding of water needs and that they will be able to more money for upcoming needs.*  
*allocate*  
*Jingeeley*  
*10/7/01*

N.A.

-02-01-02 13:10 From: CBRA Operations

0304010881

T-834 P.006/008 F-152

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas TWDB Region L

Name of Political Subdivision: City of Port Lavaca

Contact Person: SARY BAOZ Title: CITY MANAGER

Telephone: 361-552-9793 x 222 E-mail: CITYMGR@TISD.NCT

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: maggie@moorhousecc.com

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

02-01-02 13:20 From: GBRA Operations

8384010891

T-934 P. 007/008 F-152

**Recommended Water Management Strategies for  
The City of Port Lavaca**

<i>Political Subdivision</i>	<i>Strategy</i>	<i>Strategy Implementation Date</i>	<i>Total Capital Cost</i>
City of Port Lavaca	GBRA Canyon Contract Renewal	2010	\$0.00
<b>Total</b>			<b>\$0.00</b>

As the renewal of water supply contracts with the Guadalupe-Blanco River Authority will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.



## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Port Lavaca

Water Management Strategy Name: GERA Canyon Reservoir Contract Renewal

Capital Cost: \$0.00

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ \_\_\_\_\_

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ \_\_\_\_\_

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ \_\_\_\_\_

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the renewal of water supply contracts with the Guadalupe-Blanco River Authority will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region LName of Political Subdivision: Fair Oaks RanchContact Person: Dan Kasproicz Title: AldermanTelephone: 210-698-0900 E-mail: dkasprow@swbell.com

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405  
  
Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**Recommended Water Management Strategies for  
Fair Oaks Ranch**

<b>Political Subdivision</b>	<b>Strategy</b>	<b>Strategy Implementation Date</b>	<b>Total Capital Cost</b>
Fair Oaks Ranch	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$15,021
Fair Oaks Ranch	PURCHASE/PARTICIPATE W/ REGIONAL WATER PROVIDER(S)*	2000	\$3,976,688
Fair Oaks Ranch	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT**	2000	\$0
<b>Total</b>			\$3,991,709

\*Fair Oaks Ranch pro-rata share (based on year 2050 needs) of the Total Capital Cost for water management strategies recommended for implementation by the Regional Water Provider(s) for Bexar County. See following table for costs of these water management strategies.

\*\*As the Western Canyon Regional Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

Following is a list of water management strategies recommended by the South Central Texas Regional Water Planning Group for implementation by Regional Water Provider(s) for Bexar County. Designation of Regional Water Provider(s) accounts for the fact that future water supplies may be developed by individual sponsors and/or coalitions of sponsors. Capital Cost for each water user is calculated by pro-rata share (based on year 2050) of the total Capital Cost for new water supplies recommended for implementation by Regional Water Provider(s) for Bexar County.

**Regional Water Provider(s) for Bexar County**

<b>Water Management Strategy</b>	<b>2050 Quantity (acft/yr)</b>	<b>Implementation Decade</b>	<b>Capital Cost</b>
Carrizo Aquifer - Wilson & Gonzales (CZ-10C)	16,000	2000	\$116,018,929
Lower Guadalupe River Diversions (SCTN-16)	94,500	2010	\$731,761,763
Edwards Recharge - Type 2 Projects (L-18a)	21,577	2010	\$287,183,000
Colorado River Diversion Option(LCRA)	13,2000	2020	\$978,229,411
Desalination of Seawater (SCTN-17)	84,012	2040	\$999,659,460
Bexar County - Peaking	0	2000	\$71,592,267
Edwards Irrigation Transfers (L-15)	32,986	2000	\$0*
Irrigation Demand Reduction w/ Transfers (L-10 Irr.)	27,314	2000	\$0*
<b>Totals</b>	<b>408,389</b>		<b>\$3,184,444,830</b>

\*Capital costs are not included for water management strategies that do not require significant capital investment in new facilities and will not likely be funded with loans from either the open market or the Texas Water Development Board.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Fair Oaks Ranch

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 15,021

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 15,021.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ -0-.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ -0-.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Fair Oaks Ranch

Water Management Strategy Name: Purchase/Participate with Regional Water Provider(s)

Capital Cost\*: \$3,976,688

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ -0-

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ -0-

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

The City of Fair Oaks Ranch plans to participate in the Western Canyon Regional Supply Project. This Regional Water Provider project would duplicate the surface water provided from Canyon Lake and is not required to satisfy our projected needs. If the Canyon Lake project is not implemented this avenue would have to be considered.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Fair Oaks Ranch

Water Management Strategy Name: Western Canyon Regional Supply Project

Capital Cost\*: \$ 0.00

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ See #4.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ See #4.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ See #4.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

**This project is expected to be funded by issuing Bonds supported by the project participants. The costs of extending the facilities internally within Fair Oaks Ranch will be borne by the Utilities' customers/ratepayers.**

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Western Canyon Regional Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region LName of Political Subdivision: City of SchertzContact Person: John E. Bierschwale Title:Telephone: 210-658-7065 E-mail: Jbierschwale@ci.schertz.tx

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.



**Recommended Water Management Strategies for  
The City of Schertz**

<i>Political Subdivision</i>	<i>Strategy</i>	<i>Strategy Implementation Date</i>	<i>Total Capital Cost</i>
The City of Schertz	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$127,702
The City of Schertz	SCHERTZ - SEGUIN WATER SUPPLY PROJECT (CARRIZO)*	2000	\$0
<b>Total</b>			<b>\$127,702</b>

\*As the Schertz-Seguin Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Schertz

Water Management Strategy Name: Schertz-Seguin Water Supply Project (Carrizo)

Capital Cost: \$0.00<sup>\*\*</sup> 51,000,000<sup>##</sup> (50% due from City of Schertz)

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 25,500,000

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 25,500,000

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

TWDB LOW INTEREST LOANS

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Schertz-Seguin Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Schertz

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost: \$127,702

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

2. ~~The political subdivision can afford to pay \$ 127,702~~  
 If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 127,702.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

*Texas Water Delegation Bond Grants  
 or low interest loans.*

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: City of Seguin

Contact Person: Doug Foster Title: Asst. City Manager

Telephone: 830-401-2401 E-mail: assistcm@ci.seguin.tx.us

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

**Please return the completed survey by December 31, 2001 to:**

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

**If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.**

**Recommended Water Management Strategies for  
The City of Seguin**

<b>Political Subdivision</b>	<b>Strategy</b>	<b>Strategy Implementation Date</b>	<b>Total Capital Cost</b>
The City of Seguin	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2000	\$445,612
The City of Seguin	SCHERTZ- SEGUIN WATER SUPPLY PROJECT (CARRIZO)*	2000	\$0
<b>Total</b>			\$445,612

\*As the Schertz-Seguin Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Seguin

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 445,612

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 100%.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

The City of Seguin was not aware of the Demand Reduction Project and its estimated \$445,612 cost, therefore it has not been discussed and we are unable to make a financial committment at this time.

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Seguin

Water Management Strategy Name: Schertz-Seguin Water Supply Project (Carrizo)

Capital Cost\*: \$0.00\*\*

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 100%.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ N/A.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ N/A.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

This project has already been funded by the Cities of Seguin and Schertz and bonds to finance the project have been issued.

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Schertz-Seguin Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

**ATTACHMENT B**  
**WATER INFRASTRUCTURE FINANCING SURVEY**

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: City of Carrizo Springs

Contact Person: Mario A. Martinez Title: City Manager

Telephone: 830-876-2476 E-mail: mscitycs@the-i.net

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

**Please return the completed survey by December 31, 2001 to:**

**Name: Moorhouse Associates**  
**Address: 5826 Bear Lane**  
**Corpus Christi, TX 78405**

**Telephone: 361/883-6016**  
**Fax: 361/883-7417**  
**E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)**

**If you have any questions regarding this survey, please contact:**  
**Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.**



## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Carrizo Springs

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$128,922

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 38,600.00.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 51,500.00.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 77,400.00.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

1. Texas Water Development Board (TWDB)
2. Rural Development (RD)
3. Economic Development Administration (EDA)
4. Texas Department of Housing & Community Affairs

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\* Capital Cost includes new water supply facilities treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Carrizo Springs

Water Management Strategy Name: Carrizo Aquifer - Local Supply (SCTN-2a)

Capital Cost: \$ 2,073,544

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 414,700.00.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 829,400.00.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 1,244,100.00

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

1. Texas Water Development Board (TWDB)
2. Rural Development (RD)
3. Economic Development Administration (EDA)
4. Texas Department of Housing & Community Affairs

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\* Capital Cost includes new water supply facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

**Instructions:** For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Floresville

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 Mun.)

Capital Cost\*: \$ 104,586

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ possibly 50,000 @ 5,000/year for 10 years  
if required to pay all in one year, then 0.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 50,000 = using same strategy

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 54,586.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

CDBG funds would be a logical source of funding.

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

**Instructions:** For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Floresville

Water Management Strategy Name: Carrizo Aquifer - Local Supply (SCTN-2a)

Capital Cost: \$ 716,466

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 50,000-100,000<sup>est</sup> based on 5,000 gpd for 10-20 yrs

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 100,000<sup>est</sup> under same plan

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 600,000<sup>est</sup>

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

CDBG funds are logical choice.

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\* Capital Cost includes new water supply facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



VIA FACSIMILE  
(361) 883-7417

(512) 398-3461 - FAX (512) 398-5103

P. O. Box 239 - Lockhart, Texas 78644

December 27, 2001

South Central Texas Regional Water Planning Group  
Attention: Ms. Evelyn Bonavita, Chair  
%Moorhouse Associates, Inc.  
5826 Bear Lane  
Corpus Christi, Texas 78405

Re: Regional Water Financing Plan,  
Recommended Water Management Strategies

Dear Ms. Bonavita:

On behalf of Mayor Ray Sanders, the above referenced document is provided as an attachment.

Please be advised that corrections were made to the original cost estimate sent to us as it only included capital costs. Required costs for engineering, environmental & archaeology studies and mitigation, land acquisitions and surveying have been added. These changes were coordinated with your office. In addition, the capital costs for the two (2) water wells are under stated by at least \$ 1.2 million. These figures were not changed on the form at this time.

Regarding additional water supply sources, the City of Lockhart is also considering two other treated water resources from: (1) .7 mpg per day from the City of Luling which receives surface water from the San Marcos River, and (2) the City of San Marcos. The Plum Creek Reservoir is also a consideration.

Should additional information be needed, please contact me at (512) 398-6452.

Sincerely,

Vance Rodgers  
Assistant City Manager

attachments

cc: Mayor Ray Sanders  
Clovia English, City Manager  
Tommy Hill, GBRA  
John Smith, GBRA  
file: South Central Texas Regional Water Planning Group



**ATTACHMENT B**  
**WATER INFRASTRUCTURE FINANCING SURVEY**

Region Name: South Central Texas, TWDB Region L  
Name of Political Subdivision: City of Lockhart  
Contact Person: Vance Rodgers Title: Assistant City Manager  
Telephone: (512) 398-6452 E-mail: vrodgers@lockhart-tx.org

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: **Moorhouse Associates**  
Address: **5826 Bear Lane**  
**Corpus Christi, TX 78405**  
  
Telephone: **361/883-6016**  
Fax: **361/883-7417**  
E-mail: **maggie@moorhousecc.com**

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or at the e-mail address listed above.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Lockhart

Water Management Strategy Name: Carrizo Aquifer - Local Supply (SCTN-2a)

Capital Cost\*: \$ 6,567,000

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 6,567,000.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 6,567,000.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ -0-.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) N/A

\* Capital Cost includes new water supply and treatment facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Atascosa County Rural Areas

Water Management Strategy Name: Carrizo Aquifer - Local Supply (Sctn-2a)

Capital Cost: \$39,600

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ ALL.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

THE COUNTY HAS NO UTILITY REVENUE SOURCES.

THE COUNTY CONTINUES TO RAISE TAXES JUST TO MEET SERVICE & PUBLIC SAFETY DEMANDS.

THE COUNTY WOULD APPROACH THE EVERGREEN UWC D FOR ASSISTANCE IN FUNDING.

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L  
Name of Political Subdivision: City of Boerne  
Contact Person: DONALD H. CORMIE Title: Director of Finance  
Telephone: 830 249 9511 E-mail: Fin@ci.boerne.tx.us

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: **Moorhouse Associates**  
Address: **5826 Bear Lane**  
**Corpus Christi, TX 78405**  
  
Telephone: **361/883-6016**  
Fax: **361/883-7417**  
E-mail: **maggie@moorhousecc.com**

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**Recommended Water Management Strategies for  
The City of Boerne**

<i>Political Subdivision</i>	<i>Strategy</i>	<i>Strategy Implementation Date</i>	<i>Total Capital Cost</i>
City of Boerne	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2010	\$ 156,478
City of Boerne	WESTERN CANYON REGIONAL WATER SUPPLY PROJECT*	2000	\$0
City of Boerne	PURCHASE WATER FROM MAJOR PROVIDER	2000	\$0,399,500
<b>Total</b>			<b>\$8,555,978</b>

\*As the Western Canyon Regional Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Boerne

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$ 156,478

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 156,478.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ N/A

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Boerne

Water Management Strategy Name: Purchase Water from Major Provider

Capital Cost\*: \$ 8,399,500

#### PURCHASE WATER FROM MAJOR PROVIDER (REGIONAL WATER PROVIDER)

##### WESTERN CANYON REGIONAL WATER SUPPLY PROJECT

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 8,399,500 REVENUE BOND ISSUE

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ SAME AS ABOVE

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

N/A

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## ATTACHMENT B

## WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region I

Name of Political Subdivision: City of Garden Ridge

Contact Person: MARTY MANBUM Title CITY ADMINISTRATOR

Telephone: 210-651-6632 E-mail: \_\_\_\_\_

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405

Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**Recommended Water Management Strategies for  
The City of Garden Ridge**

<i>Political Subdivision</i>	<i>Strategy</i>	<i>Strategy Implementation Date</i>	<i>Total Capital Cost</i>
City of Garden Ridge	DEMAND REDUCTION (CONSERVATION) (L-10 MUN)	2010	\$33,815
City of Garden Ridge	CANYON RESERVOIR - RIVER DIVERSION (G-15C)	2000	\$4,283,226
<i>Total</i>			\$4,287,041

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Garden Ridge

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$33,815

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 33,815.

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 33,815.

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0.

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of Garden Ridge

Water Management Strategy Name: Canyon Reservoir - River Diversion (G-15C)

Capital Cost\*: \$4,263,226

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 1,250,000

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

*SOUNDS LIKE A CREDIT CARD DEBT THAT BITES YOU LATER.*

The political subdivision can afford to pay \$ \_\_\_\_\_

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above? *to decide*

The political subdivision cannot afford to pay \$ \_\_\_\_\_

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

ATTACHMENT B

WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: South Central Texas, TWDB Region L  
Name of Political Subdivision: City of New Braunfels  
Contact Person: ROGER BIGGERS Title: EXEC. DIRECTOR OF WATER SERVICES  
Telephone: 830-629-8470 E-mail: R.BIGGERS@NGUTEXAS.COM

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

Please return the completed survey by December 31, 2001 to:

Name: Moorhouse Associates  
Address: 5826 Bear Lane  
Corpus Christi, TX 78405  
Telephone: 361/883-6016  
Fax: 361/883-7417  
E-mail: [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

If you have any questions regarding this survey, please contact:  
Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.

**WATER INFRASTRUCTURE FINANCING SURVEY**

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of New Braunfels

Water Management Strategy Name: Demand Reduction (Conservation) (L-10 MUN)

Capital Cost\*: \$864,886

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?
2. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 864,886.

3. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 864,886.

4. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ -0-.

5. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of New Braunfels

Water Management Strategy Name: Canyon Reservoir - River Diversion (G-15C)

Capital Cost\*: \$ 56,640,006

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ - 0 -

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ - 0 -

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 56,640,006

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) WHATEVER STATE FUNDING IS AVAILABLE AT THE TIME. THE REVENUES GENERATED BY THE CITY WATER SYSTEM IS INADEQUATE AND IS SUBSIDIZED BY ELECTRIC REVENUES.

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of New Braunfels

Water Management Strategy Name: Carrizo Aquifer - Gonzales & Bastrop (CZ-10D)

Capital Cost: \$ 66,311,189

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ - 0 -

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ - 0 -

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 66,311,189

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

WHAT EVER STATE FUNDING OPTION MAY BE AVAILABLE AT THE TIME. THE REVENUES GENERATED BY THE CITY WATER SYSTEM IS PRESENTLY SUBSIDIZED BY ELECTRIC REVENUES

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of New Braunfels

Water Management Strategy Name: GBRA Canyon Reservoir Contract Renewal

Capital Cost\*: \$ 0.00\*\*

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ - 0 -

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ - 0 -

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ - 0 -

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the renewal of water supply contracts with the Guadalupe-Blanco River Authority will not require significant capital investment in new facilities, it is assumed that these additional supplies will not be funded with loans from either the open market or the Texas Water Development Board.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: City of New Braunfels

Water Management Strategy Name: Additional Storage (ASR and/or Surface)

Capital Cost: \$15,106,000

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 15,106,000

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 15,106,000

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) WHATEVER STATE FUNDING OPTION MAY BE AVAILABLE AT THE TIME. THE REVENUES GENERATED BY THE CITY WATER SYSTEM IS PRESENTLY SUBSIDIZED BY ELECTRIC REVENUES

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Village of Wimberley

Water Management Strategy Name: Canyon Reservoir (G-24)

Capital Cost\*: \$ 4,396,086

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 4,396,086

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary) THE VILLAGE OF WIMBERLEY IS IN THE PLANNING STAGES FOR WATER/WASTE WATER IN THE FUTURE. CURRENTLY, WATER FOR MOST OF THE VILLAGE IS PROVIDED BY A PRIVATE WATER SUPPLY CORPORATION; SINCE THE VILLAGE IS NEWLY INCORPORATED IT DOES NOT OWN ANY UTILITY AND HAS NO REVENUE FOR SUCH. THE VILLAGE HAS BEEN DISCUSSING WITH THE GUADALUPE-BLANCO RIVER AUTHORITY TO DETERMINE WAYS TO ACQUIRE SURFACE WATER TO SUPPLEMENT THE AQUIFER WATER. WE ARE INTERESTED IN CONSIDERING MULTIPLE FUNDING SOURCES

\* Capital Cost includes new water supply facilities, treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.



**ATTACHMENT B**  
**WATER INFRASTRUCTURE FINANCING SURVEY**

Region Name: South Central Texas, TWDB Region L

Name of Political Subdivision: Guadalupe County Rural Areas

Contact Person: JUDGE JAMES E. SAGEBIEL Title: COUNTY JUDGE FOR GUADALUPE

Telephone: (830) 303-4188 ext. 312 E-mail: N/A

Background: On January 5, 2001, Regional Water Planning Groups (RWPGs) all across the State of Texas formally submitted 16 adopted regional water plans to the Texas Water Development Board (TWDB) per requirements of Senate Bill 1 (75<sup>th</sup> Texas Legislature). The adopted regional water plans examined and analyzed the water supply needs for all water users in the State. Based on the analysis, the RWPGs identified water management strategies necessary to ensure a sufficient supply of water for the 50-year planning period. The RWPGs also developed preliminary capital cost estimates for each of the strategies recommended in the approved regional water plan.

Senate Bill 2 (77<sup>th</sup> Texas Legislature) expanded the RWPG's assignment. Senate Bill 2 charges the RWPGs with examining what financial assistance, if any, is needed to implement the water management strategies and projects recommended in the most recently approved regional water plan.

Senate Bill 2 specifically requires that the RWPG report to the TWDB how political subdivisions all across Texas propose to pay for future water infrastructure needs.

The purpose of this survey is to complete this charge with your input.

**Please return the completed survey by December 31, 2001 to:**

**Name:** Moorhouse Associates  
**Address:** 5826 Bear Lane  
Corpus Christi, TX 78405

**Telephone:** 361/883-6016  
**Fax:** 361/883-7417  
**E-mail:** [maggie@moorhousecc.com](mailto:maggie@moorhousecc.com)

**If you have any questions regarding this survey, please contact:**  
**Ms. Maggie Moorhouse at 361/883-6016 or by the e-mail address listed above.**

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Guadalupe County Rural Areas

Water Management Strategy Name: Schertz-Seguin Water Supply Project

Capital Cost\*: \$ 0.00\*\*

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

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\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

\*\* As the Schertz-Seguin Water Supply Project is in the implementation phase, it was assumed for planning purposes that capital investment in these facilities has already been funded. If State participation and/or other sources of funds for these facilities are desired, please so indicate in your response to the attached Water Infrastructure Financing Survey.

### WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Guadalupe County Rural Areas

Water Management Strategy Name: Carrizo Aquifer - Gonzales & Bastrop (CZ-10D)

Capital Cost\*: \$29,366,384

- Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ 0.

- If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ 0.

- How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ 0.

- For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.

## WATER INFRASTRUCTURE FINANCING SURVEY

Instructions: For each of the recommended strategies in the regional water plan to meet your water needs, please fill in the water management strategy name and cost (refer to the attached table showing the specific projects recommended for your political subdivision and the estimated capital costs). Answers to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: Kendall County Rural Areas

Water Management Strategy Name: Purchase Water from Major Provider

Capital Cost: \$ 58,712,505

1. Using current utility revenue sources, including implementing necessary rate and tax increases, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above?

The political subdivision can afford to pay \$ see below

2. If you could access the State Participation Program, how much of the capital cost is the political subdivision able to pay for the water management strategy identified above using current utility revenue sources, including implementing necessary rate and tax increases?

The political subdivision can afford to pay \$ see below

3. How much of the capital cost is the political subdivision unable to pay for the water management strategy identified above?

The political subdivision cannot afford to pay \$ see below

4. For the costs the political subdivision cannot pay, what option(s) is proposed? What, if any, state funding sources would the political subdivision consider? (use additional sheets, if necessary)

Kendall County is not currently a water purveyor therefore has no revenue source nor distribution system. Any cost of future water supplies distributed throughout the county and purchased from a major provider will have to be borne by the users as a user cost. The major provider, a utility district, or a private purveyor may provide the distribution infrastructure but in either case the user would pay for the water service. Kendall County, as a political subdivision, would not be involved.

\* Capital Cost includes new water supply facilities; treatment, distribution, and storage facilities sufficient to meet peak day needs; engineering, legal, and contingencies; environmental & archaeological studies and mitigation; land acquisition; and interest during construction.