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FINAL REPORT

INFRASTRUCTURE FINANCING REPORT FAR WEST TEXAS WATER PLANNING GROUP REGION E

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INTRODUCTION

Between January and March 2002, 23 entities representing 17 water user groups and major water providers were surveyed by the Rio Grande Council of Governments on behalf of the Far West Texas Water Planning Group. These entities have a projected water supply deficit and recommended strategies to meet that need in the *Far West Texas Regional Water Plan (2001)*. Water user groups and major water suppliers, including cities, counties, water supply corporations and irrigation districts were surveyed to determine their proposed method(s) for financing the estimated capital costs involved in implementing the water supply strategies recommended in the regional plan. Entities and water user groups with zero-capital-cost strategies were not surveyed.

Of the 23 entities surveyed, 15 submitted responses. In addition, the Far West Texas Water Planning Group provided input on proposed methods of financing infrastructure needs for 5 county aggregate water user groups including Culberson County Mining, El Paso County Irrigation, El Paso County Livestock, Hudspeth County Irrigation, and Jeff Davis County Livestock. Surveys for the county aggregate water user groups El Paso County Irrigation and Hudspeth County Irrigation were also sent to the irrigation districts in those counties. The Water Planning Group also provided input on the policy statement required in TWC §16.053(q)2 that answers the question "What is the proper role(s) of the State in financing water supply projects identified in the approved regional water plans?"

Summary of Survey Results

Of the 23 water user groups and major water suppliers with needs which were surveyed, only 18 are political subdivisions of the State. Only one of those political subdivisions, Hudspeth County CRD #1, indicated that it can pay the entire \$425,000 cost of its reservoir expansion strategy. Three additional political subdivisions, the City of El Paso, Homestead MUD, and El Paso County WID #4 (Fabens) can afford to pay a portion of the cost of their recommended strategies. These three political subdivisions can afford to pay a total of \$547,491,064 of their strategy costs using current revenue. With access to the State Participation Program, the amount which can be paid rises to \$820,186,225. Fourteen of the 18 political subdivisions surveyed answered that they can not pay any portion of their projected infrastructure costs, and have indicated that they will apply for state and federal grants or loans in order to implement their recommended strategies. All of these entities indicated that grant funding would be their preferred option, and their first choice for funding future infrastructure costs.

Local political subdivisions indicated that they would be unable to pay for \$1,106,763,333 of infrastructure costs identified in the approved regional water plan. However, \$11,761,350 of this cost will be borne by the private sector, as it mainly

pertains to the cost of installation or expanded use of private wells on private land. When these private sector costs are removed from the equation, there are still over \$1 billion in projected infrastructure costs in the Far West Texas Water Planning Region for which state and/or federal funding will be sought.

THE INFRASTRUCTURE FINANCING SURVEY

The survey administered by the Rio Grande Council of Governments asked for a response to four questions required by the Texas Water Development Board, and two additional questions approved by the Far West Texas Water Planning Group, and designed to elicit information necessary to update the regional plan. A copy of the survey is included in Appendix 1. Individual survey questionnaires were developed for each water user group and major water supplier with a projected deficit, and for each strategy to meet that deficit as identified in the *Far West Texas Regional Water Plan*. For the County-Other water user groups with needs, the survey was sent to the County Judge of that county. In addition, where individual water suppliers were discussed in the context of a recommended County-Other strategy, those water supply corporations were also surveyed, in an effort to determine what financial assistance would be needed for them to implement their recommended strategies. Additional input on county aggregate strategies was received from the El Paso County Farm Bureau and individual ranchers in Jeff Davis County.

Political subdivisions of the state whose water supply strategies were noted in the regional plan as having zero capital costs were not surveyed. In the Far West Texas Water Planning Region, although the communities of Canutillo, Clint, San Elizario, Socorro, Vinton, and Westway, and the county aggregate water user groups of El Paso County Manufacturing and Mining, have identified needs in the adopted regional water plan, the water management strategies recommended to meet those needs do not include capital costs. Therefore, these communities and water user groups were not surveyed. Where a water user group with needs and strategies to meet those needs have multiple water management strategies, some of which have capital costs and others which have no capital costs, those water user groups were only surveyed for the strategies with a capital cost.

Surveys were initially mailed via first class U.S. Postal Service mail on January 11, 2002, with a stated due date of March 1, 2002. Several entities who received their survey by mail requested electronic versions as well, which were subsequently sent as e-mail attachments. Entities who had not responded to the survey by two weeks prior to the due date were contacted by phone, fax, mail, or e-mail, or a combination of methods, on February 20 or 21, 2002, and urged to submit their completed surveys. At the time of the first follow-up contact, an effort was made to further explain the purpose of the survey and its requirement under State statute, and questions concerning the survey were answered by Rio Grande Council of Governments staff. Entities which had not answered the survey by the March 1, 2002 deadline were again contacted by phone, fax, mail, or e-mail, or a combination of methods, on March 7, 2002. The survey response tracking matrix which the RGCOG developed is included in Appendix 4. In all, 15 of the 23

surveyed water user groups completed and submitted responses to the survey. Responses to the TWDB's required survey questions are summarized in Appendix 2, and the TWDB's required survey response reporting matrix is included as Appendix 3. Copies of the completed and returned questionnaires are included in Appendix 5.

The Far West Texas Water Planning Group was asked to provide input on financing options for aggregate water user groups at a meeting of the Group on March 14, 2002. Staff prepared proposed summary discussions for each of the aggregate water user group strategies, and submitted those summaries to the Water Planning Group for comment and suggestions. Input received at the March 14, 2002 meeting was supplemented by additional suggestions received from Planning Group members following a second request for input through either fax or e-mail on March 18, 2002.

At the March 14, 2002 Far West Texas Water Planning Group meeting, members were also asked to develop a policy statement on the role of the State in financing water supply projects. Members were asked for their suggestions on specific, existing, or innovative methods for raising the funds necessary to pay the costs of the water supply strategies identified in the approved regional water plan. Planning Group members were again asked to provide input on the policy statement through a faxed or e-mailed request for their suggestions on March 18, 2002. Planning Group members also considered the formulation of a policy statement, giving particular attention to proposed increases in the level of State Participation, at a meeting of the Group on April 25, 2002. The policy statement is discussed separately below.

SUMMARY OF RESPONSES TO THE SURVEY

County Aggregate Strategies: Mining, Irrigation, Livestock, Steam Electric Power Generation

County aggregate water supply strategies generally apply to either private entities or individual landowners (see individual strategy summaries in Appendix 2). Few county aggregate water user groups in the planning region were projected to face a water supply deficit for which the recommended strategy includes a capital cost. The water user groups who met the survey criteria include Culberson County Mining, El Paso County Irrigation, Hudspeth County Irrigation, El Paso County Livestock and Jeff Davis County Livestock. Water supply strategies recommended for these entities include the drilling of additional private wells or expanded use of existing wells. In Hudspeth County, the proposed Irrigation strategy "reservoir storage expansion" will be funded entirely by the Hudspeth County Conservation and Reclamation District #1, from tax increases. All of the other entities surveyed, including the Far West Texas Water Planning Group, stated that the strategies pertaining to private entities or individual landowners would be privately financed by the affected private entity or private landowner.

In El Paso County, Steam Electric Power is also included in the county aggregate strategies, although the suggested strategies developed in the regional plan specifically pertain to the El Paso Electric Company. Of the strategies developed for this water user

group, only one, “additional wells” included a capital cost and was the subject of this survey. El Paso Electric Company was surveyed, and responded that they could not afford to pay any portion of the capital cost for additional wells for their Hudspeth County unit through rate increases. The State Participation Program does not appear to apply to the electric utility. El Paso Electric Company stated that the capital cost would be funded through unspecified state grant programs, if available.

County-Other Strategies

With few exceptions, County-Other strategies also applied to individual landowners or private entities such as investor-owned water utilities. In those cases, the strategies would be privately financed by the affected private entity or private landowner. As with the county aggregate strategies, the strategies pertaining to these water user groups were the drilling of additional private wells, or the expanded use of existing wells. In some cases, however, small public water supply corporations were specifically noted in the County-Other strategies. Survey responses indicated that without exception, these smaller public entities could not afford to pay the cost of their recommended water supply strategy without state or federal assistance, specifically grant assistance. The programs specified by the survey respondents included Texas Office of Rural Community Affairs (ORCA) Community Development Block Grants (CDBG), and U.S. Department of Agriculture Rural Utilities Service (USDA RUS) grants. In addition, many respondents only specified that “any available” state grant assistance program would be accessed. Where no response was received from the entity surveyed, it was assumed for the purpose of this report that the entity could not afford to pay any portion of the projected cost for the recommended strategy, and that a variety of state and federal grant and loan assistance programs would be used, including the State Revolving Fund and Economically Depressed Areas Program (EDAP) if appropriate, as well as those state and federal sources mentioned previously.

Municipal Supply Strategies for Individual Political Subdivisions

In El Paso County, five cities or communities were surveyed to determine the proposed method(s) of financing their recommended water management strategies. Of those political subdivisions surveyed, only three responded: the City of El Paso, Homestead MUD, and El Paso County WID #4 (Fabens). The City of El Paso can pay an average of 50% of the cost of their recommended strategies using current revenue sources, and an average of 75% of the cost by accessing the State Participation program. Homestead MUD can pay approximately 2% of the cost of their recommended desalination strategy using current revenue sources, increasing to 4% with access to the State Participation program. El Paso County WID #4 (Fabens) indicated that it can afford to pay approximately 10% of their desalination strategy cost using current utility revenues, with no increase if they could access the State Participation program. Fort Bliss and the Town of Anthony did not respond to the survey. It was assumed that Fort Bliss, being a U.S. Army installation, would not have access to state funding sources, but would use federal funding to implement its recommended strategies. Based on the responses from similar entities which were surveyed, the Town of Anthony was assumed to be unable pay any

portion of its recommended strategies' capital costs, and would make use of a variety of state and federal funding sources, including both grant and loan programs.

PROPOSED ROLE OF THE STATE IN FINANCING WATER INFRASTRUCTURE COSTS

It is clear from the survey results that there will be a great need to access both state and federal funding sources to pay for the cost of water infrastructure identified in the *Far West Texas Regional Water Plan*. Regional political subdivisions indicated that they will be unable to pay for approximately \$1.1 billion in projected water infrastructure costs. Increased demands on state and federal funding sources will heighten competition for limited available funds. Having started the regional planning process in motion, the state will need to identify the means to greatly expand its role in financing the needed water supply infrastructure. Without an expansion of state assistance programs, the needs identified in the regional planning process will not be addressed. For many of the communities surveyed, data indicate that they believe it simply will not be possible to pass the costs of necessary infrastructure onto their utility customers. For most of the smaller, rural communities, the customer base is too small and/or too poor to bear that burden alone.

Fourteen of the 18 political subdivisions surveyed indicated that they can not afford to pay any portion of their projected infrastructure costs using current utility revenue sources. For all of these entities, grant funding is the preferred option, whether those grants are from state or federal sources. Most of the entities seeking grants are small, rural communities with limited revenue sources, serving economically disadvantaged communities. For these entities, the first choice for state grant funding will probably be the Office of Community Affairs' Community Development Fund or Colonia Fund. USDA Rural Utilities Service grants will also be an option. They will turn to loan funds only if grants are not available. State loan programs which may be accessed include the TWDB's Rural Water Assistance Fund, the Economically Distressed Areas Program (EDAP), the State Revolving Fund and the State Participation Program, if the proposed project meets the regional criteria for the latter program. Federal lending sources include USDA Rural Utilities Service loan programs, and the North American Development Bank (NADBank). Most borrowers only turn to NADBank as a matter of last resort, however, because of the high administrative burden and the length of time it takes for project completion under the program. Small, rural, and disadvantaged communities will require access to low interest loan programs and grant funding, and funds for these resources need to be increased to match the expected demand.

The State Participation Program will probably be accessed by very few water suppliers in the region, predominantly those in El Paso County. While the economies of scale that can be realized by regional systems is acknowledged, such regional systems require a density of population that only occurs within the planning region in El Paso County. The other six counties in the planning region are sparsely settled rural areas, characterized by small, widely-separated communities. Within El Paso County, however, there are

opportunities for regionalization in water supply infrastructure that would make the most cost-effective use of the limited funds available. For this reason, the Planning Group recommends that funding for the State Participation Program be increased.

The increased role of the state in funding water infrastructure projects identified in the *Far West Texas Regional Water Plan* will require dedicated funding sources to support both grant and loan programs. The Far West Texas Water Planning Group recommends that the following dedicated funding sources be considered to enhance the state's ability to assist local governments in implementing the recommended strategies to meet projected future water supply needs:

- (a) general revenue;
- (b) statewide bond issue;
- (c) percentage of Texas Lottery proceeds;
- (d) percentage of the fines imposed and collected from water-related violations of state environmental law;
- (e) a bottled water fee; and
- (f) expanded tax exemption for water conservation fixtures and equipment.

The Planning Group also considered other potential financing options, which it did not endorse. These include a per capita tax and a statewide sales tax on water and wastewater services. Both of these approaches were considered to be regressive taxes, which would place an unfair financial burden on economically disadvantaged residents.

As required by contract, the TWDB Executive Administrator's comments on the draft Infrastructure Financing Report are included in Appendix 6. The TWDB had no comments and requested no corrections which needed to be addressed in the final report. No other comments were received on the draft report.

List of Appendices

- Appendix 1. Water Infrastructure Financing Survey
- Appendix 2. Individual Water Supply Financing Summaries
- Appendix 3. TWDB Infrastructure Financing Survey Reporting Matrix
- Appendix 4. RGCOG Infrastructure Financing Survey Response Tracking Matrix
- Appendix 5. Copies of Completed Surveys
- Appendix 6. TWDB Executive Administrator's Comments on the IFR

Appendix 1.

WATER INFRASTRUCTURE FINANCING SURVEY

Region Name: Far West Texas Water Planning Group

Name of Political Subdivision: Rio Grande Council of Governments

Contact Person: Barbara Kauffman Title: Director, Environmental Svcs.

Telephone: (915) 533-0998; Fax: (915) 532-9385 E-mail: b.kauffman@riocog.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 (75th 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 (77th 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 March 1, 2002 to:

Barbara Kauffman
Environmental Services & Special Projects
Rio Grande Council of Governments
1100 N. Stanton Street, Suite 610
El Paso, Texas 79902
(915) 532-9385 fax
E-mail address: b.kauffman@riocog.org

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

Barbara Kauffman Telephone Number (915) 533-0998

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: _____

Water Management Strategy Name: _____

Capital Cost: \$ _____

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)

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Appendix 2.

INDIVIDUAL WATER SUPPLY STRATEGY FINANCING SUMMARIES

Brewster County Other

Capital Cost: \$3,614,350

Strategy Name: #22-1 Additional Wells

Entities Surveyed: Brewster County, Marathon WSC, Study Butte WSC, Big Bend National Park

Probable Funding Mechanism:

Individual homeowners will privately finance the drilling of low volume wells to serve each new rural home. Moderate volume public-supply wells in Study Butte and Marathon will be financed by state and/or federal grant programs, including ORCA Community Development Block Grants and USDA Rural Utilities Service grants. Both water supply corporations surveyed indicated that they could not afford to pay any part of the estimated cost for infrastructure improvements. While Big Bend National Park did not respond to the survey, it was assumed that an additional moderate volume public-supply well in Big Bend National Park will be financed using federal funds.

Culberson County Mining

Capital Cost: \$354,000

Strategy Name: #55-3 Additional Private Wells

Entity Surveyed: Far West Texas WPG

Probable Funding Mechanism:

There are currently no active mining operations in Culberson County. Should mining resume, mining companies will privately finance the drilling and completion of a sufficient number of additional wells necessary to met their anticipated water-supply needs.

City of El Paso

Capital Cost: \$28,353,600

Strategy Name: #71-2 Supply Side Conservation

Entity Surveyed: El Paso Water Utilities – Public Service Board, El Paso County WID #1

Probable Funding Mechanism:

This conservation strategy entails lining EPCWID #1 irrigation canals to reduce seepage losses. Water conserved through this strategy may be converted to municipal use if mutually agreed upon by the EPCWID #1 and the EPWU-PSB. Therefore, both of these entities were surveyed for their input on financing this strategy.

Using current utility revenue sources, the EPWU-PSB can afford to pay \$14,176,800 of the capital cost. If the State Participation Program can be accessed, the amount the EPWU-PSB can afford to pay increases to \$21,265,200. Financing options proposed for the balance of \$14,176,800 include unspecified

federal and state grants, the State Participation program, and the State Revolving Fund program.

Using current utility revenue sources, the EPCWID#1 stated that they can afford to pay none of the capital cost unless the conserved water goes to the water rights holders for agricultural purposes. Access to the State Participation Program would not change the amount the District could afford to pay, and they would be unable to pay the entire estimated capital cost of \$28,353,600 for canal lining. The option proposed by the District for financing the capital cost is a third-party implementing contract for the conserved water.

Capital Cost: \$72,869,103

Strategy Name: #71-3 Reclamation

Entity Surveyed: El Paso Water Utilities – Public Service Board

Probable Funding Mechanism:

Using current utility revenue sources, the EPWU-PSB can afford to pay \$36,434,052 of the capital cost. If the State Participation Program can be accessed, the amount the EPWU-PSB can afford to pay increases to \$54,651,077. Financing options proposed for the balance of \$36,434,052 include unspecified federal and state grants, the State Participation program, and the State Revolving Fund program.

Capital Cost: \$273,445,428

Strategy Name: #71-4 Surface Water Treatment

Entity Surveyed: El Paso Water Utilities – Public Service Board

Probable Funding Mechanism:

Using current utility revenue sources, the EPWU-PSB can afford to pay \$136,722,714 of the capital cost. If the State Participation Program can be accessed, the amount the EPWU-PSB can afford to pay increases to \$205,084,071. Financing options proposed for the balance of \$136,722,714 include unspecified federal and state grants, the State Participation program, and the State Revolving Fund program.

Capital Cost: \$27,681,705

Strategy Name: #71-5 Desalination

Entity Surveyed: El Paso Water Utilities – Public Service Board

Probable Funding Mechanism:

Using current utility revenue sources, the EPWU-PSB can afford to pay \$2,768,705 of the capital cost. If the State Participation Program can be accessed, the amount the EPWU-PSB can afford to pay increases to \$3,913,000. Financing options proposed for the balance of \$24,913,000 include unspecified federal and state grants, the State Participation program, and the State Revolving Fund program.

Capital Cost: \$356,138,169

Strategy Name: #71-6a Groundwater Transfer (Antelope Valley)

Entity Surveyed: El Paso Water Utilities – Public Service Board

Probable Funding Mechanism:

Using current utility revenue sources, the EPWU-PSB can afford to pay \$178,069,084 of the capital cost. If the State Participation Program can be accessed, the amount the EPWU-PSB can afford to pay increases to \$267,103,626. Financing options proposed for the balance of \$178,069,084 include unspecified federal and state grants, the State Participation program, and the State Revolving Fund program.

Capital Cost: \$356,138,169

Strategy Name: #71-6b Groundwater Transfer (Dell City)

Entity Surveyed: El Paso Water Utilities – Public Service Board

Probable Funding Mechanism:

Using current utility revenue sources, the EPWU-PSB can afford to pay \$178,069,084 of the capital cost. If the State Participation Program can be accessed, the amount the EPWU-PSB can afford to pay increases to \$267,103,626. Financing options proposed for the balance of \$178,069,084 include unspecified federal and state grants, the State Participation program, and the State Revolving Fund program.

Town of Anthony

Capital Cost: \$600,000

Strategy Name: #71-10 Additional Wells

Entity Surveyed: Town of Anthony

Probable Funding Mechanism:

The Town of Anthony did not respond to the survey. Prevailing knowledge of local conditions indicate that the town probably could not afford to pay any of the capital cost for additional wells out of current utility revenue sources, even if the State Participation Program could be accessed. The \$600,000 cost of additional wells would probably be funded through a variety of state and federal grant programs, including ORCA Community Development Block Grants and USDA Rural Utilities Service grants, as well as grant programs available through the TWDB.

Community of Fabens

Capital Cost: \$5,456,250

Strategy Name: #71-15 Desalination/Groundwater Treatment

Entity Surveyed: EPCWID #4 (Fabens)

Probable Funding Mechanism:

EPCWID #4 indicated that they could afford to pay 10% of the cost to develop a desalination facility using current utility revenue sources, with no increase in the amount under the State Participation program. The remaining 90% or \$4,910,625 cost of this strategy would probably be funded through a variety of state and federal grant programs, including USDA Rural Development loans,

BECC/NADBank loans, and any available state and/or federal grant or loan programs.

Fort Bliss

Capital Cost: \$600,000

Strategy Name: #71-17 Expand Use of Existing Wells

Entity Surveyed: Fort Bliss

Probable Funding Mechanism:

Fort Bliss did not respond to the survey. As a federal entity, however, it was assumed that Fort Bliss could not access any state funding sources, and would turn to federal funding sources to finance the cost of needed infrastructure.

Capital Cost: \$17,355,000

Strategy Name: #71-44 Desalination

Entity Surveyed: Fort Bliss

Probable Funding Mechanism:

Fort Bliss did not respond to the survey. As a federal entity, however, it was assumed that Fort Bliss could not access any state funding sources, and would turn to federal funding sources to finance the cost of needed infrastructure.

Capital Cost: \$6,021,000

Strategy Name: #71-45 Wastewater Reclamation

Entity Surveyed: Fort Bliss

Probable Funding Mechanism:

Fort Bliss did not respond to the survey. As a federal entity, however, it was assumed that Fort Bliss could not access any state funding sources, and would turn to federal funding sources to finance the cost of needed infrastructure.

Capital Cost: \$2,838,000

Strategy Name: #71-46 Purchase El Paso Reclamation Water

Entity Surveyed: Fort Bliss

Probable Funding Mechanism:

Fort Bliss did not respond to the survey. As a federal entity, however, it was assumed that Fort Bliss could not access any state funding sources, and would turn to federal funding sources to finance the cost of needed infrastructure.

Homestead Meadows

Capital Cost: \$12,896,675

Strategy Name: #71-48 Additional Wells/Desalination

Entity Surveyed: Homestead Municipal Utility District

Probable Funding Mechanism:

The groundwater produced from two new public-supply wells will require desalination to meet drinking water standards. Using current utility revenue sources, Homestead MUD is able to pay \$280,000 of the estimated capital cost. With access to the State Participation Program, the amount that Homestead MUD can afford to pay increases to \$520,000. Financing options proposed for the

balance of \$12,315,000 includes unspecified federal and state grants or loan programs.

El Paso County Other

Capital Cost: \$55,246,500

Strategy Name: #71-24 Desalination

Entity Surveyed: El Paso County

Probable Funding Mechanism:

El Paso County did not respond to the survey. Prevailing knowledge of the County's historical funding patterns for similar projects, indicates that the County could afford to pay some portion of their proposed infrastructure costs. However, for the purpose of this report, a worst-case scenario was assumed for entities which did not respond. The presumption is that the County may not afford to pay any of the capital cost for desalination, even if the State Participation Program could be accessed. The \$55,246,500 cost of this strategy would probably be funded through a variety of state and federal grant and loan programs, including ORCA Community Development Block Grants, USDA Rural Utilities Service grants, NADBank loans, as well as grant and loan programs available through the TWDB, such as the State Revolving Fund and EDAP programs.

Capital Cost: \$40,943,250

Strategy Name: #71-26 Surface Water Treatment

Entity Surveyed: El Paso County

Probable Funding Mechanism:

As in the previous strategy, the presumption was that the County may not afford to pay any of the capital cost for surface water treatment, even if the State Participation Program could be accessed. The \$40,943,250 cost of this strategy would probably be funded through a variety of state and federal grant and loan programs, including ORCA Community Development Block Grants, USDA Rural Utilities Service grants, NADBank loans, as well as grant and loan programs available through the TWDB, such as the State Revolving Fund and EDAP programs.

Capital Cost: \$356,138,169

Strategy Name: #71-28 Groundwater Transfer

Entity Surveyed: El Paso County

Probable Funding Mechanism:

El Paso County did not respond to the survey; therefore, it was assumed that the County may not afford to pay any of the capital cost for groundwater transfer, even if the State Participation Program could be accessed. The \$356,138,169 cost of this strategy would probably be funded through a variety of state and federal grant and loan programs, including ORCA Community Development Block Grants, USDA Rural Utilities Service grants, as well as grant and loan programs available through the TWDB, such as the State Revolving Fund and EDAP programs.

El Paso County Steam Electric Power

Capital Cost: \$600,000

Strategy Name: #71-32 Additional Wells (Hudspeth County Unit)

Entities Surveyed: El Paso Electric Co.

Probable Funding Mechanism:

El Paso Electric Co. indicated that they could not afford to pay any of the capital cost for additional wells through current utility revenue sources, even if the State Participation Program could be accessed. The El Paso Electric Company indicated that the \$600,000 cost of additional wells would probably be funded through unspecified state assistance grant programs, if available.

El Paso County Irrigation

Capital Cost: \$4,000,000

Strategy Name: #71-34 Additional Private Wells

Entity Surveyed: Far West Texas WPG

Probable Funding Mechanism:

As this strategy applies to individual irrigation wells, individual landowners will privately finance the drilling of additional irrigation wells to serve agricultural producers. State funds are not available for this purpose.

Capital Cost: \$750,000

Strategy Name: #71-35 Expand Use of Existing Wells

Entity Surveyed: Far West Texas WPG

Probable Funding Mechanism:

As this strategy applies to individual irrigation wells, individual landowners will privately finance the additional costs of expanded use of their existing agricultural wells. State funds are not available for this purpose.

El Paso County Livestock

Capital Cost: \$124,000

Strategy Name: #71-37 Expand Use of Existing Wells

Entities Surveyed: Far West Texas WPG; El Paso County Farm Bureau

Probable Funding Mechanism:

Sufficient water is expected to be available to meet increased supply needs by increasing the pumping time of existing wells. In addition, installation of a water distribution system will increase the efficient use of the water supply. Individual livestock operations will privately finance the cost of increased pumping time and installation of pipe for a distribution system.

Capital Cost: \$132,350

Strategy Name: #71-40 Additional Private Wells – Dairies

Probable Funding Mechanism:

Sufficient water is expected to be available to meet increased supply needs by drilling additional private wells. Individual dairy operations will privately finance the cost of drilling additional wells.

Hudspeth County Other

Capital Cost: \$84,500

Strategy Name: #115-1 Additional Wells

Entities Surveyed: Hudspeth County, Esperanza Fresh Water Supply Corp., Fort Hancock Water Control & Improvement District

Probable Funding Mechanism:

Hudspeth County indicated that individual homeowners will privately finance the drilling of low volume domestic wells to serve each new rural home. Fort Hancock WCID did not respond to the survey. Therefore, it was assumed that the WCID could not pay any part of the cost of an additional public supply well for the district. Any available state and federal grant or loan program would probably be accessed for funding to implement the strategy. As a private, investor-owned utility, the Esperanza FWSC indicated that private funds would be used for any future infrastructure costs.

Capital Cost: \$13,095,980

Strategy Name: #115-4 Surface Water Conversion & Treatment

Entities Surveyed: Hudspeth County, Esperanza Fresh Water Supply Corp., Fort Hancock Water Control & Improvement District

Probable Funding Mechanism:

Fort Hancock WCID did not respond to the survey. Hudspeth County could not afford to pay any of the capital cost for surface water conversion and treatment, even if the State Participation Program could be accessed. The \$13,095,980 cost of this strategy would probably be funded through a variety of state and federal grant and loan programs, including ORCA Community Development Block Grants, USDA Rural Utilities Service grants, as well as grant and loan programs available through the TWDB. As an investor-owned utility, Esperanza WSC responded that private funds will be used for any future infrastructure needs. They also indicated that the utility has already prepared plans for a surface water treatment plant.

Capital Cost: \$1,776,900

Strategy Name: #115-5 Desalination

Entities Surveyed: Hudspeth County, Esperanza Fresh Water Supply Corp., Fort Hancock Water Control & Improvement District

Probable Funding Mechanism:

Fort Hancock WCID did not respond to the survey. Hudspeth County could not afford to pay any of the capital cost for desalination, even if the State Participation Program could be accessed. The \$1,776,900 cost of this strategy

would probably be funded through a variety of state and federal grant and loan programs, including ORCA Community Development Block Grants, USDA Rural Utilities Service grants, as well as grant and loan programs available through the TWDB. As an investor-owned utility, Esperanza WSC responded that private funds will be used for any future infrastructure needs, and that desalination is already being used by the utility.

Capital Cost: \$5,245,500

Strategy Name: #115-6a Groundwater Transfer (Wild Horse Draw)

Entities Surveyed: Hudspeth County, Esperanza Fresh Water Supply Corp., Fort Hancock Water Control & Improvement District

Probable Funding Mechanism:

Fort Hancock WCID did not respond to the survey. Hudspeth County could not afford to pay any of the capital cost for groundwater transfer, even if the State Participation Program could be accessed. The \$5,245,500 cost of this strategy would probably be funded through a variety of state and federal grant and loan programs, including ORCA Community Development Block Grants, USDA Rural Utilities Service grants, as well as grant and loan programs available through the TWDB. As an investor-owned utility, Esperanza WSC responded that private funds will be used for any future infrastructure needs.

Capital Cost: \$8,534,300

Strategy Name: #115-6b Groundwater Transfer (Red Light Draw)

Entities Surveyed: Hudspeth County, Esperanza Fresh Water Supply Corp., Fort Hancock Water Control & Improvement District

Probable Funding Mechanism:

Fort Hancock WCID did not respond to the survey. Hudspeth County could not afford to pay any of the capital cost for groundwater transfer, even if the State Participation Program could be accessed. The \$8,534,300 cost of this strategy would probably be funded through a variety of state and federal grant and loan programs, including ORCA Community Development Block Grants, USDA Rural Utilities Service grants, as well as grant and loan programs available through the TWDB. As an investor-owned utility, Esperanza WSC responded that private funds will be used for any future infrastructure needs.

Hudspeth County Irrigation

Capital Cost: \$50,000

Strategy Name: #115-10 Expand Use of Existing Wells

Entities Surveyed: Far West Texas WPG; Hudspeth County Conservation and Reclamation District #1

Probable Funding Mechanism:

Sufficient water is expected to be available to meet increased supply needs by increasing the pumping time of existing wells. Individual agricultural operations will privately finance the cost of increased pumping time and installation of larger pumping units if necessary.

Capital Cost: \$800,000

Strategy Name: #115-11 Additional Wells

Entities Surveyed: Far West Texas WPG; Hudspeth County Conservation and Reclamation District #1

Probable Funding Mechanism:

Sufficient water is expected to be available to meet increased supply needs. Individual agricultural operations will privately finance the cost of drilling additional wells.

Capital Cost: \$425,000

Strategy Name: #115-12 Reservoir Storage Expansion

Entities Surveyed: Far West Texas WPG; Hudspeth County Conservation and Reclamation District #1

Probable Funding Mechanism:

Hudspeth County CRD #1 indicated that they will finance the entire \$425,000 cost of reservoir storage expansion through the implementation of district tax increases.

Jeff Davis County Other

Capital Cost: \$155,350

Strategy Name: #122 -1 Additional Wells

Entities Surveyed: Jeff Davis County, High Frontier, Inc.

Probable Funding Mechanism:

Individual homeowners will privately finance the drilling of low volume wells to serve each new rural home. Of the \$155,350 total strategy cost, \$120,000 is estimated to be for private domestic wells. High Frontier, Inc. can not afford to pay any of the cost of drilling a new moderate-volume public supply well. As a privately owned system, the \$35,350 cost of High Frontier's portion of this strategy would probably be privately funded. High Frontier indicated that they rely on donations for capital expenditures.

Capital Cost: \$310,000

Strategy Name: #122 -5 Purchase Water From Fort Davis Water Supply Corp.

Entity Surveyed: Fort Davis Water Supply Corp.

Probable Funding Mechanism:

Fort Davis Water Supply Corporation expects an expanded service area in the future, which will require the drilling of an additional public supply well. Fort Davis WSC can not afford to pay any of the cost of drilling a new moderate-volume public supply well, even if the State Participation Program could be accessed. The \$310,000 cost of this strategy would probably be funded through unspecified state assistance grant programs.

Jeff Davis County Livestock

Capital Cost: \$247,000

Strategy Name: #122-7 Expand Use of Existing Wells

Entities Surveyed: Far West Texas WPG, with input from Jeff Davis County ranchers.

Probable Funding Mechanism:

Sufficient water is expected to be available to meet increased supply needs by increasing the pumping time of existing wells. In addition, installation of a water distribution system will increase the efficient use of the water supply. Individual ranchers will privately finance the cost of increased pumping time and installation of pipe for a distribution system.

Capital Cost: \$450,000

Strategy Name: #122-8 Additional Private Wells

Entities Surveyed: Far West Texas WPG, with input from Jeff Davis County ranchers.

Probable Funding Mechanism:

Sufficient water is expected to be available to meet increased supply needs by drilling additional private wells. Individual ranchers will privately finance the cost of drilling additional wells.

Presidio County Other

Capital Cost: \$855,000

Strategy Name: #189-1 Additional Wells

Entities Surveyed: Presidio County; Candelaria Water Supply Corporation, Redford Water Supply Corporation

Probable Funding Mechanism:

Neither Redford WSC nor Candelaria WSC responded to the survey. Presidio County indicated that individual homeowners will privately finance the drilling of low volume domestic wells to serve each new rural home. Moderate volume public-supply wells in Candelaria and Redford will probably be financed by a variety of state and federal grant programs, including ORCA Community Development Block Grants, USDA Rural Utilities Service grants, as well as grant programs available through the TWDB..

Terrell County Other

Capital Cost: \$180,000

Strategy Name: #222-1 Additional Private Wells

Entities Surveyed: Terrell County, Terrell County WCID #1

Probable Funding Mechanism:

Individual homeowners will privately finance the drilling of low volume domestic wells to serve each new rural home.

Appendix 3.

TWDB Infrastructure Financing Reporting Matrix

TWDB Infrastructure Financing Report
Survey Reporting Matrix

WUG_NAME	WUG ID	WUG RWPG	SEQ ID	CITY ID	WUG COUNTY ID	WUG BASIN ID	WMS NAME	WMS TYPE	SO ID	SO_NAME
Please do not alter populated fields.										
ANTHONY	050032000	E	0032	0021	071	23	ADDITIONAL WELLS	4C /71-10	07101	HUECO-MESILLA BOLSON AQUIFER
CANUTILLO	050144000	E	0144	0095	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-12	07101	HUECO-MESILLA BOLSON AQUIFER
CLINT	050178000	E	0178	0689	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-13	07101	HUECO-MESILLA BOLSON AQUIFER
EL PASO	050275000	E	0275	0189	071	23	CONVERSION OF RIGHTS TO USE WATER	4D /71-4	3423010	RIVER
EL PASO	050275000	E	0275	0189	071	23	DEMAND SIDE CONSERVATION	4A /71-1	38071	CONSERVATION
EL PASO	050275000	E	0275	0189	071	23	DESALINATION	4L /71-5	07101	HUECO-MESILLA BOLSON AQUIFER
EL PASO	050275000	E	0275	0189	071	23	GROUNDWATER TRANSFER	4C /71-6A	12202	WEST TEXAS BOLSON AQUIFER
EL PASO	050275000	E	0275	0189	071	23	GROUNDWATER TRANSFER	4C /71-8B	11508	BONE SPRING-VICTORIO PEAK AQUIFER
EL PASO	050275000	E	0275	0189	071	23	GROWTH MANAGEMENT	4A /71-7	38071	CONSERVATION
EL PASO	050275000	E	0275	0189	071	23	RECLAIMED WASTEWATER	4B /71-3	3823071	DIRECT REUSE
EL PASO	050275000	E	0275	0189	071	23	SUPPLY SIDE CONSERVATION	4A /71-2	3423010	RIVER
FABENS	050288000	E	0288	0195	071	23	DESALINATION	4L /71-15	07101	HUECO-MESILLA BOLSON AQUIFER
FABENS	050288000	E	0288	0195	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-14	07101	HUECO-MESILLA BOLSON AQUIFER
FORT BLISS	050305000	E	0305	0208	071	23	DESALINATION	4L /71-44	07101	HUECO-MESILLA BOLSON AQUIFER
FORT BLISS	050305000	E	0305	0208	071	23	DISTRIBUTION SYSTEM MAINTENANCE	4A /71-47	38071	CONSERVATION
FORT BLISS	050305000	E	0305	0208	071	23	EXPANDED USE OF EXISTING WELLS	4C /71-17	07101	HUECO-MESILLA BOLSON AQUIFER
FORT BLISS	050305000	E	0305	0208	071	23	PURCHASE OF EL PASO RECLAMATION WATER	4B /71-48	3823071	DIRECT REUSE
FORT BLISS	050305000	E	0305	0208	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-16	07101	HUECO-MESILLA BOLSON AQUIFER
FORT BLISS	050305000	E	0305	0208	071	23	WASTEWATER RECLAMATION	4B /71-45	3823071	DIRECT REUSE
HOMESTEAD MEADOW	050413000	E	0413	0882	071	23	ADDITIONAL WELLS AND DESALINATION	4L /71-48	07101	HUECO-MESILLA BOLSON AQUIFER
HOMESTEAD MEADOW	050413000	E	0413	0882	071	23	DISTRIBUTION SYSTEM MAINTENANCE	4A /71-51	38071	CONSERVATION
HOMESTEAD MEADOW	050413000	E	0413	0882	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-18	07101	HUECO-MESILLA BOLSON AQUIFER
HOMESTEAD MEADOW	050413000	E	0413	0882	071	23	RAINFALL HARVESTING	4L /71-49	37071	RAINFALL
SAN ELIZARIO	050793000	E	0793	0953	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-19	07101	HUECO-MESILLA BOLSON AQUIFER
SOCORRO	050838000	E	0838	0804	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-20	07101	HUECO-MESILLA BOLSON AQUIFER
WINTON	050933000	E	0933	0983	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-21	07101	HUECO-MESILLA BOLSON AQUIFER
WESTWAY	050958000	E	0958	0990	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-22	07101	HUECO-MESILLA BOLSON AQUIFER
COUNTY-OTHER	050996022	E	0996	0757	022	23	ADDITIONAL WELLS	4C /22-1	02222	OTHER AQUIFER
COUNTY-OTHER	050996022	E	0996	0757	022	23	DISTRIBUTION SYSTEM MAINTENANCE	4A /22-2	38022	CONSERVATION
COUNTY-OTHER	050996022	E	0996	0757	022	23	EXPANDED USE OF EXISTING WELLS	4C /22-3	02222	OTHER AQUIFER
COUNTY-OTHER	050996022	E	0996	0757	022	23	RAINFALL HARVESTING	4L /22-5	37022	RAINFALL
COUNTY-OTHER	050996022	E	0996	0757	022	23	WATER PRODUCTION MANAGEMENT	4A /22-6	38022	CONSERVATION
COUNTY-OTHER	050996071	E	0996	0757	071	23	CONVERSION OF RIGHTS TO USE WATER	4D /71-26	3423010	RIVER
COUNTY-OTHER	050996071	E	0996	0757	071	23	DESALINATION	4L /71-24	07101	HUECO-MESILLA BOLSON AQUIFER
COUNTY-OTHER	050996071	E	0996	0757	071	23	DISTRIBUTION SYSTEM MAINTENANCE	4A /71-27	38071	CONSERVATION
COUNTY-OTHER	050996071	E	0996	0757	071	23	GROUNDWATER TRANSFER	4C /71-28	11502	WEST TEXAS BOLSON AQUIFER
COUNTY-OTHER	050996071	E	0996	0757	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-23	07101	HUECO-MESILLA BOLSON AQUIFER
COUNTY-OTHER	050996115	E	0996	0757	115	23	RAINFALL HARVESTING	4L /71-25	37071	RAINFALL
COUNTY-OTHER	050996115	E	0996	0757	115	23	ADDITIONAL WELLS	4C /115-1	11501	HUECO-MESILLA BOLSON AQUIFER
COUNTY-OTHER	050996115	E	0996	0757	115	23	CONVERSION OF RIGHTS TO USE WATER	4E /115-4	3423010	RIVER
COUNTY-OTHER	050996115	E	0996	0757	115	23	DESALINATION	4L /115-5	11501	HUECO-MESILLA BOLSON AQUIFER
COUNTY-OTHER	050996115	E	0996	0757	115	23	DISTRIBUTION SYSTEM MAINTENANCE	4A /115-2	38115	CONSERVATION
COUNTY-OTHER	050996115	E	0996	0757	115	23	EXPANDED USE OF EXISTING WELLS	4C /115-3	11501	HUECO-MESILLA BOLSON AQUIFER
COUNTY-OTHER	050996115	E	0996	0757	115	23	GROUNDWATER TRANSFER	4C /115-6A	05502	WEST TEXAS BOLSON AQUIFER
COUNTY-OTHER	050996115	E	0996	0757	115	23	GROUNDWATER TRANSFER	4C /115-6B	11502	WEST TEXAS BOLSON AQUIFER
COUNTY-OTHER	050996115	E	0996	0757	115	23	RAINFALL HARVESTING	4L /115-8	37115	RAINFALL

WUG 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
Please do not alter p						
ANTHONY	\$600,000.00	2020	\$	\$	\$ 600,000.00	Assumed any available state/federal funding; Anthony did not return surveys
CANUTILLO	\$0.00	2000				Zero capital cost; not surveyed
CLINT	\$0.00	2000				Zero capital cost; not surveyed
EL PASO	\$273,445,428.00	2000	\$ 136,722,714.00	\$ 205,084,071.00	\$ 136,722,714.00	Federal and State grants, state participation program, state revolving fund
EL PASO	\$0.00	2000				Zero capital cost; not surveyed
EL PASO	\$27,681,705.00	2010	\$ 2,768,705.00	\$ 3,913,000.00	\$ 24,913,000.00	Federal and State grants, state participation program, state revolving fund
EL PASO	\$356,138,169.00	2010	\$ 178,069,084.00	\$ 267,103,626.00	\$ 178,069,084.00	Federal and State grants, state participation program, state revolving fund
EL PASO	\$356,138,169.00	2010	\$ 178,069,084.00	\$ 267,103,626.00	\$ 178,069,084.00	Federal and State grants, state participation program, state revolving fund
EL PASO	\$0.00	2000				Zero capital cost; not surveyed
EL PASO	\$72,868,103.00	2000	\$ 36,434,052.00	\$ 54,651,077.00	\$ 36,434,052.00	Federal and State grants, state participation program, state revolving fund
EL PASO	\$28,353,600.00	2010	\$ 14,176,800.00	\$ 21,265,200.00	\$ 14,176,800.00	Federal and State grants, state participation program, state revolving fund
FABENS	\$5,456,250.00	2010	\$ 545,625.00	\$ 545,625.00	\$ 4,910,625.00	BECC/MADBank, US Rural Development, any state or federal grant or loan program
FABENS	\$0.00	2000				Zero capital cost; not surveyed
FORT BLISS	\$17,355,000.00	2010			\$ 17,355,000.00	Assumed Federal funding; Fort Bliss did not return surveys
FORT BLISS	\$0.00	2000				Zero capital cost; not surveyed
FORT BLISS	\$600,000.00	2000			\$ 600,000.00	Assumed Federal funding; Fort Bliss did not return surveys
FORT BLISS	\$2,838,000.00	2010			\$ 2,838,000.00	Assumed Federal funding; Fort Bliss did not return surveys
FORT BLISS	\$0.00	2000				Zero capital cost; not surveyed
FORT BLISS	\$6,021,000.00	2010			\$ 6,021,000.00	Assumed Federal funding; Fort Bliss did not return surveys
HOMESTEAD MEADOW	\$12,896,675.00	2010	\$ 280,000.00	\$ 520,000.00	\$ 12,376,675.00	unspecified grants and/or loans
HOMESTEAD MEADOW	\$0.00	2000				Zero capital cost; not surveyed
HOMESTEAD MEADOW	\$0.00	2000				Zero capital cost; not surveyed
HOMESTEAD MEADOW	\$0.00	2000				Zero capital cost; not surveyed
SAN ELIZARIO	\$0.00	2000				Zero capital cost; not surveyed
SOCORRO	\$0.00	2000				Zero capital cost; not surveyed
VINTON	\$0.00	2000				Zero capital cost; not surveyed
WESTWAY	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$3,614,350.00	2000	\$	\$	\$ 3,614,350.00	Private wells on private land; public funds not available
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$40,943,250.00	2010	\$	\$	\$ 40,943,250.00	Assumed any available state/federal funding; El Paso County did not return surveys
COUNTY-OTHER	\$55,246,500.00	2010	\$	\$	\$ 55,246,500.00	Assumed any available state/federal funding; El Paso County did not return surveys
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2010	\$	\$	\$ 356,138,169.00	Plan T12 notes cost of strategy as \$356,138,169; assumed any available state/federal funding
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$84,500.00	2000	\$	\$	\$ 84,500.00	Private wells on private land; public funds not available
COUNTY-OTHER	\$13,085,980.00	2010	\$	\$	\$ 13,085,980.00	CDBG & Rural Utilities Service funds; private funds for Esperanza FWSC
COUNTY-OTHER	\$1,776,900.00	2010	\$	\$	\$ 1,776,900.00	CDBG & Rural Utilities Service funds; private funds for Esperanza FWSC
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$5,245,500.00	2010	\$	\$	\$ 5,245,500.00	CDBG & Rural Utilities Service funds; private funds for Esperanza FWSC
COUNTY-OTHER	\$8,534,300.00	2010	\$	\$	\$ 8,534,300.00	CDBG & Rural Utilities Service funds; private funds for Esperanza FWSC
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed

WUG NAME	WUG ID	WUG RWRG	SEQ ID	CITY ID	WUG COUNTY ID	WUG BASIN ID	WMS NAME	WMS TYPE	SO ID	SO NAME
Please do not alter populated fields.										
COUNTY-OTHER	050996122	E	0996	0757	122	23	ADDITIONAL WELLS	4C /122-1	12217	IGNEOUS AQUIFER
COUNTY-OTHER	050996122	E	0996	0757	122	23	DISTRIBUTION SYSTEM MAINTENANCE	4A /122-2	38122	CONSERVATION
COUNTY-OTHER	050996122	E	0996	0757	122	23	EXPANDED USE OF EXISTING WELLS	4C /122-3	12217	IGNEOUS AQUIFER
COUNTY-OTHER	050996122	E	0996	0757	122	23	PURCHASE WATER FROM FORT DAVIS WSC	4E /122-5	12217	IGNEOUS AQUIFER
COUNTY-OTHER	050996122	E	0996	0757	122	23	RAINFALL HARVESTING	4L /122-6	37122	RAINFALL
COUNTY-OTHER	050996122	E	0996	0757	122	23	WATER PRODUCTION MANAGEMENT	4A /122-4	38122	CONSERVATION
COUNTY-OTHER	050996189	E	0996	0757	189	23	ADDITIONAL WELLS	4C /189-1	18902	WEST TEXAS BOLSON AQUIFER
COUNTY-OTHER	050996189	E	0996	0757	189	23	DISTRIBUTION SYSTEM MAINTENANCE	4A /189-2	38189	CONSERVATION
COUNTY-OTHER	050996189	E	0996	0757	189	23	EXPANDED USE OF EXISTING WELLS	4C /189-3	18902	WEST TEXAS BOLSON AQUIFER
COUNTY-OTHER	050996189	E	0996	0757	189	23	RAINFALL HARVESTING	4L /189-4	37189	RAINFALL
COUNTY-OTHER	050996189	E	0996	0757	189	23	WATER PRODUCTION MANAGEMENT	4A /189-5	38189	CONSERVATION
COUNTY-OTHER	050996222	E	0996	0757	222	23	ADDITIONAL PRIVATE WELLS	4C /222-1	22213	EDWARDS-TRINITY-PLATEAU AQUIFER
COUNTY-OTHER	050996222	E	0996	0757	222	23	DISTRIBUTION SYSTEM MAINTENANCE	4A /222-2	38222	CONSERVATION
COUNTY-OTHER	050996222	E	0996	0757	222	23	EXPANDED USE OF EXISTING WELLS	4C /222-3	22213	EDWARDS-TRINITY-PLATEAU AQUIFER
COUNTY-OTHER	050996222	E	0996	0757	222	23	RAINFALL HARVESTING	4L /222-4	37222	RAINFALL
MANUFACTURING	051001071	E	1001	1001	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-29	07101	HUECO-MESILLA BOLSON AQUIFER
STEAM ELECTRIC POWER	051002071	E	1002	1002	071	23	ADDITIONAL WELLS	4C /71-32	11522	OTHER AQUIFER
STEAM ELECTRIC POWER	051002071	E	1002	1002	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-30	07101	HUECO-MESILLA BOLSON AQUIFER
STEAM ELECTRIC POWER	051002071	E	1002	1002	071	23	SYSTEM IMPROVEMENT	4A /71-31	38071	CONSERVATION
MINING	051003055	E	1003	1003	055	23	ADDITIONAL WELLS	4C /55-3	05522	OTHER AQUIFER
MINING	051003055	E	1003	1003	055	23	EXPANDED USE OF EXISTING WELLS	4C /55-2	05522	OTHER AQUIFER
MINING	051003071	E	1003	1003	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-33	07101	HUECO-MESILLA BOLSON AQUIFER
IRRIGATION	051004022	E	1004	1004	022	23	PURCHASE/TRANSFER OF EXISTING WATER RIGHTS	4E /22-4	3423050	OF RIVER
IRRIGATION	051004071	E	1004	1004	071	23	ADDITIONAL WELLS	4C /71-34	07122	OTHER AQUIFER
IRRIGATION	051004071	E	1004	1004	071	23	CONSERVATION TECHNOLOGY	4A /71-36	38071	CONSERVATION
IRRIGATION	051004071	E	1004	1004	071	23	EXPANDED USE OF EXISTING WELLS	4C /71-35	07122	OTHER AQUIFER
IRRIGATION	051004115	E	1004	1004	115	23	ADDITIONAL WELLS	4C /115-11	11522	OTHER AQUIFER
IRRIGATION	051004115	E	1004	1004	115	23	CONSERVATION TECHNOLOGY	4A /115-9	38115	CONSERVATION
IRRIGATION	051004115	E	1004	1004	115	23	EXPANDED USE OF EXISTING WELLS	4C /115-10	11522	OTHER AQUIFER
IRRIGATION	051004115	E	1004	1004	115	23	RESERVOIR STORAGE EXPANSION	4J /115-12	3423010	RIVER
LIVESTOCK	051005071	E	1005	1005	071	23	ADDITIONAL WELLS	4C /71-40	07101	HUECO-MESILLA BOLSON AQUIFER
LIVESTOCK	051005071	E	1005	1005	071	23	EXPANDED USE OF EXISTING WELLS	4C /71-37	07101	HUECO-MESILLA BOLSON AQUIFER
LIVESTOCK	051005071	E	1005	1005	071	23	HERD REDUCTION	4O /71-38	38071	OTHER CONSERVATION
LIVESTOCK	051005071	E	1005	1005	071	23	PURCHASE WATER FROM CITY OF EL PASO	4E /71-43	07101	HUECO-MESILLA BOLSON AQUIFER
LIVESTOCK	051005071	E	1005	1005	071	23	RAINFALL HARVESTING	4L /71-39	37071	RAINFALL
LIVESTOCK	051005071	E	1005	1005	071	23	WASTEWATER REUSE BY DAIRIES	4B /71-42	3623071	DIRECT REUSE
LIVESTOCK	051005071	E	1005	1005	071	23	WATER CONSERVATION BY DAIRIES	4A /71-41	38071	CONSERVATION
LIVESTOCK	051005122	E	1005	1005	122	23	ADDITIONAL WELLS	4C /122-8	12217	IGNEOUS AQUIFER
LIVESTOCK	051005122	E	1005	1005	122	23	EXPANDED USE OF EXISTING WELLS	4C /122-7	12217	IGNEOUS AQUIFER
LIVESTOCK	051005122	E	1005	1005	122	23	HERD REDUCTION	4O /122-9	38122	OTHER CONSERVATION

WUG NAME	CAP. COST	Strategy Implementation Date	How much can P.S. pay 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 WUG?	Notes
COUNTY-OTHER	\$426,350.00	2000	\$	\$	\$ 155,350.00	Plan T12 notes cost of strategy as \$155,350; private wells on private land; public funds not available
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2010				Zero capital cost; not surveyed
COUNTY-OTHER	\$310,000.00	2000	\$	\$	\$ 310,000.00	unspecified grants
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$855,000.00	2000	\$	\$	\$ 855,000.00	Private wells on private land; public funds not available
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$180,000.00	2000	\$	\$	\$ 180,000.00	Private wells on private land; public funds not available
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
COUNTY-OTHER	\$0.00	2000				Zero capital cost; not surveyed
MANUFACTURING	\$0.00	2000				Zero capital cost; not surveyed
STEAM ELECTRIC POWER	\$600,000.00	2020	\$	\$	\$ 600,000.00	unspecified state grants
STEAM ELECTRIC POWER	\$0.00	2000				Zero capital cost; not surveyed
STEAM ELECTRIC POWER	\$0.00	2000				Zero capital cost; not surveyed
MINING	\$354,000.00	2030	\$	\$	\$ 354,000.00	Private wells on private land; public funds not available
MINING	\$0.00	2030				Zero capital cost; not surveyed
MINING	\$0.00	2000				Zero capital cost; not surveyed
IRRIGATION	\$0.00	2000				Zero capital cost; not surveyed
IRRIGATION	\$4,000,000.00	2000	\$	\$	\$ 4,000,000.00	Private wells on private land; public funds not available
IRRIGATION	\$0.00	2000				Zero capital cost; not surveyed
IRRIGATION	\$750,000.00	2000	\$	\$	\$ 750,000.00	Private wells on private land; public funds not available
IRRIGATION	\$800,000.00	2010	\$	\$	\$ 800,000.00	Private wells on private land; public funds not available
IRRIGATION	\$0.00	2030				Zero capital cost; not surveyed
IRRIGATION	\$50,000.00	2010	\$	\$	\$ 50,000.00	Private wells on private land; public funds not available
IRRIGATION	\$425,000.00	2010	\$	\$ 425,000.00	\$	user fees will be increased to cover infrastructure costs
LIVESTOCK	\$132,350.00	2000	\$	\$	\$ 132,500.00	Private wells on private land; public funds not available
LIVESTOCK	\$124,000.00	2000	\$	\$	\$ 124,000.00	Private wells on private land; public funds not available
LIVESTOCK	\$0.00	2000				Zero capital cost; not surveyed
LIVESTOCK	\$0.00	2000				Zero capital cost; not surveyed
LIVESTOCK	\$0.00	2000				Zero capital cost; not surveyed
LIVESTOCK	\$0.00	2000				Zero capital cost; not surveyed
LIVESTOCK	\$0.00	2000				Zero capital cost; not surveyed
LIVESTOCK	\$450,000.00	2000	\$	\$	\$ 450,000.00	Private wells on private land; public funds not available
LIVESTOCK	\$247,000.00	2000	\$	\$	\$ 247,000.00	Private wells on private land; public funds not available
LIVESTOCK	\$0.00	2000				Zero capital cost; not surveyed

\$ 547,491,064.00 \$ 820,186,225.00 \$ 1,106,763,333.00 \$11,761,350 of infrastructure cost to be funded by private sector

Appendix 4.

Infrastructure Financing Report Survey Response Tracking Matrix

Far West Texas Water Planning Group -- Infrastructure Financing Report
Survey Response Tracking Matrix

Political Subdivision (Entity Surveyed)	Water Use Type	Strategy Name	Strategy Date	Total Capital Cost (\$)	Survey Sent Date	Contact Person	Response From Pol/Sub: date	1st Follow- Up Date	1st Follow- Up Method	2nd Follow Up Date	2nd Follow Up Method	Q1 (\$) Can Pay	Q2 (\$) Can Pay W/State Particip.	Q3 (\$) Can Not Pay
Brewster County	Muni	22-1 Additional Wells	2000	3,614,350	01/11/2002	Judge Beard	01/29/2002					0	0	3,614,350
Study Butte WSC	Muni	22-1 Additional Wells	2000	3,614,350	01/11/2002	Mike Davidson	02/21/2002	02/20/2002	phone/e-mail			0	0	3,614,350
Marathon WSC	Muni	22-1 Additional Wells	2000	3,614,350	01/11/2002	Mike Johnson	02/25/2002	02/20/2002	phone msg			0	0	3,614,350
Big Bend National Park	Muni	22-1 Additional Wells	2000	3,614,350	01/11/2002	Jim Erickson		02/20/2002	phone/e-mail	03/07/2002	phone			
Cutberson Mining	indust	55-3 additional wells	2030	354,000	01/11/2002	FWTWPG	03/14/2002					0	0	354,000
City of El Paso (PSB)	muni	71-2 supply side conservation	2010	28,353,600	01/11/2002	Ed Fierro	02/27/2002	02/20/2002	e-mail			14,178,800	21,265,200	14,178,800
	muni	71-3 reclamation	2000	72,868,103								36,434,052	54,651,077	36,434,052
	muni	71-4 surface water treatment	2000	273,445,428								136,722,714	205,084,071	136,722,714
	muni	71-5 desalination	2010	27,681,705								2,768,705	3,913,000	24,913,000
	muni	71-6a GW transfer (Antelope)	2010	356,138,189								178,069,084	267,103,626	178,069,084
	muni	71-6b GW transfer (Dell Valley)	2010	356,138,189								178,069,084	267,103,626	178,069,084
Town of Anthony	muni	71-10 additional wells	2020	600,000	01/11/2002	Mayor Franco		02/20/2002	phone msg	03/07/2002	phone msg			
EPCWID #4 (Fabens)	Muni	71-15 desalination/GW treatment	2010	5,456,250	04/01/2002	Steve Rodriguez	04/08/2002	04/08/2002	phone			545,625	545,625	4,910,625
Fort Bliss	Muni	71-17 expand use existing wells	2000	600,000	01/11/2002	Etra Cushing		02/20/2002	e-mail	03/07/2002	phone/fax			
	Muni	71-44 desalination	2010	17,355,000										
	Muni	71-45 wastewater reclamation	2010	6,021,000										
	irrig	71-46 purchase EP reclamation water	2010	2,838,000										
Homestead MUD	Muni	71-48 addl wells/desalination	2010	12,896,675	01/11/2002	Loren Timmerman	03/05/2002	02/20/2002	phone/e-mail			280,000	520,000	12,315,900
El Paso County	Muni	71-24 desalination	2010	55,246,500	01/11/2002	Jesse Acosta		02/20/2002	phone	03/07/2002	phone msg			
	Muni	71-26 surface water treatment	2010	40,943,250										
	Muni	71-28 groundwater transfer	2010	356,138,189										
El Paso County Irrigation	irrig	71-34 additional wells	2000	4,000,000		FWTWPG	03/14/2002					0	0	4,000,000
	irrig	71-35 expand use existing wells	2000	750,000								0	0	750,000
El Paso Electric Co.	indus	71-32 addl wells (Huds Co. unit)	2020	600,000	01/11/2002	Richard Grenier	03/26/2002	02/20/2002	phone/e-mail	03/07/2002	phone	0	0	600,000
EPCWID #1	muni	71-2 supply side conservation	2010	28,353,600	01/11/2002	Edd Fifer	02/28/2002	02/20/2002	phone msg			0	0	28,353,600
El Paso County Livestock (EP Co Farm Bureau)	irrig	71-37 expand use existing wells	2000	124,000	01/11/2002	Bill Skov	03/07/2002	02/20/2002	fax request	03/07/2002	phone/fax	0	0	124,000
	irrig	71-40 addl wells - dairies	2000	132,350	01/11/2002							0	0	132,350
Hudspeth County	muni	115-1 additional wells	2000	84,500	01/11/2002	Manny Lujan	02/26/2002	02/20/2002	phone/e-mail			0	0	84,500
	muni	115-4 surface water treatment	2010	13,085,980								0	0	13,085,980
	muni	115-5 desalination	2010	1,776,900								0	0	1,776,900
	muni	115-6a GW transfer	2010	5,245,500								0	0	5,245,500
	muni	115-6b GW transfer	2010	8,534,300								0	0	8,534,300
Fort Hancock WCID	muni	115-1 additional wells	2000	84,500	01/11/2002	Lindsay Alvarez		02/20/2002	phone	03/07/2002	phone msg			
	muni	115-4 surface water treatment	2010	13,085,980										
	muni	115-5 desalination	2010	1,776,900										
	muni	115-6a GW transfer	2010	5,245,500										
	muni	115-6b GW transfer	2010	8,534,300										
Esperanza WSC	muni	115-1 additional wells	2000	84,500	01/11/2002	B.M. Jobe	03/08/2002	02/20/2002	re-mailed	03/07/2002	phone msg	N/A	N/A	N/A
	muni	115-4 surface water treatment	2010	13,085,980								N/A	N/A	N/A
	muni	115-5 desalination	2010	1,776,900								N/A	N/A	N/A
	muni	115-6a GW transfer	2010	5,245,500								N/A	N/A	N/A
	muni	115-6b GW transfer	2010	8,534,300								N/A	N/A	N/A
HCCRD#1	irrig	115-10 expand use existing wells	2010	50,000	01/11/2002	Jim Ed Miller	03/08/2002	02/20/2002	phone/e-mail			N/A	N/A	50,000
	irrig	115-11 additional wells	2010	800,000								0 (N/A)	0 (N/A)	800,000
	irrig	115-12 reservoir storage expansion	2010	425,000								425,000	N/A	0
Jeff Davis County	muni	122-1 additional wells	2000	155,350	01/11/2002	Judge Robertson	03/08/2002	02/20/2002	phone/fax	03/07/2002	phone msg	0 (N/A)	0 (N/A)	155,350

Political Subdivision (Entity Surveyed)	Q4 - Options Proposed	Q5 - Additional Strats?	Q6 - Strats Still Valid?	Comments
Brewster County	private wells on private lands; public funds not available	No	Yes	private wells on private lands; public funds not available
Study Butte WSC	TDHCA community development grants & USDA RD grants	no	yes	
Marathon WSC	USDA Rural Utilities Service grant funds	no	don't know	small rural utility in low income area; grants necessary
Big Bend National Park	no answer; assumed that federal funds will be used for financing			no reply; assumed Federal funds would be used
Culberson Mining	no mining operations active; assume future ops will use private funds			private wells on private lands; public funds not available
City of El Paso (PSB)	Federal and State grants, state participation program, state revolving fund	no	yes	Strat 71-1 Demand Side Conservation: new goal 140 gpcd by 2010.
	Federal and State grants, state participation program, state revolving fund	no	yes	Strat 71-2: offered to enter into coop \$ arrangement for canal lining
	Federal and State grants, state participation program, state revolving fund	no	yes	w/ EPCWID#1: declined
	Federal and State grants, state participation program, state revolving fund	no	yes	
	Federal and State grants, state participation program, state revolving fund	no	yes	
Town of Anthony	no answer; assumed both state & federal funds will be used for financing			no reply; assumed any available state &/or federal funds will be used
EPCWID #4 (Fabens)	BECC/NADBank, US Rural Development, any state or federal grants or loans	yes - surface water treatment, RIO	yes	survey sent late due to oversight
Fort Bliss	no answer; assumed that federal funds will be used for financing			no reply; assumed Federal funds would be used
Homestead MUD	unspecified grants and/or loans	no	no answer	
El Paso County	no answer; assumed both state & federal funds will be used for financing			Finance Dept & Commr. Ct. must review & approve
El Paso County Irrigation	private wells on private lands; public funds not available			private wells on private lands; public funds not available
	private wells on private lands; public funds not available			
El Paso Electric Co.	unspecified state grants	yes - conservation through conversion from wet to dry cooling towers	yes	conservation strategy proposed very expensive: \$12 million for one
EPCWID #1	Third Party Implementing Contract for conserved water	yes - forbearance agreements with individual landowners to redirect surplus	yes	See detailed letter from EPCWID#1
El Paso County Livestock (EP Co Farm Bureau)	private wells on private lands; public funds not available	no	yes	private wells on private lands; public funds not available
	private wells on private lands; public funds not available	no	yes	
Hudspeth County	private wells on private lands; public funds not available	yes - groundwater transfer from Del Valley	yes	J.E. Miller: new strat: groundwater transfer from Del Valley
	CDBG & Rural Utilities Service funds	no	yes	
	CDBG & Rural Utilities Service funds	no	yes	
	CDBG & Rural Utilities Service funds	no	yes	
	CDBG & Rural Utilities Service funds	no	yes	
Fort Hancock WCID	no answer; assumed both state & federal funds will be used for financing			no reply; assumed any available state &/or federal funds will be used
Esperanza WSC	private wells on private lands; public funds not available	no	yes	disagrees with costs for strats; thinks they can be done
	plans drawn up for surf water treatment; privately funded	no	yes	cheaper privately; upgrades & expansions to Esperanza
	desal plant (RIO) already in operation; expansion will be privately funded	no	yes	FWSC will be accomplished using private funds
	if needed will be privately funded	no	yes	
	if needed will be privately funded	no	yes	
HCCRD#1	private wells on private lands; public funds not available	no	yes	no reply; assumed any available state &/or federal funds will be used
	private wells on private lands; public funds not available	no	yes	
	user fees will be increased to pay infrastructure costs	no	yes	
Jeff Davis County	private wells on private lands; public funds not available	no	yes	private wells on private lands; public funds not available

Political Subdivision (Entity Surveyed)	Water Use Type	Strategy Name	Strategy Date	Total Capital Cost (\$)	Survey Sent Date	Contact Person	Response From Pol/Sub: date	1st Follow- Up Date	1st Follow- Up Method	2nd Follow Up Date	2nd Follow Up Method	Q1 (\$) Can Pay	Q2 (\$) Can Pay W/State Particip.	Q3 (\$) Can Not Pay
Fort Davis WSC	muni	122-5 purchase H2O from FDWSC	2000	310,000	01/11/2002	Janet Adams	03/08/2002	02/20/2002	phone/e-mail	03/07/2002	phone	0	0	310,000
High Frontier, Inc.	muni	122-1 additional wells	2000	155,350	01/11/2002	P. B. Middlebrook	02/22/2002	02/21/2002	phone/fax			0	0	155,350
Jeff Davis County livestock	irrig	122-7 expand use existing wells	2000	247,000	01/11/2002	FRTWPG	03/14/2002					0 (N/A)	0 (N/A)	0 (N/A)
	irrig	122-8 additional wells	2000	450,000								0 (N/A)	0 (N/A)	0 (N/A)
Presidio County	muni	189-1 additional wells	2000	855,000	01/11/2002	Judge Agan	01/16/2002					0 (N/A)	0 (N/A)	0 (N/A)
Radford WSC	Muni	189-1 additional wells	2000	855,000	01/11/2002	Armando Carrasco		02/21/2002	re-mailed	03/07/2002	phone msg.			
Candelaria WSC	Muni	189-1 additional wells	2000	855,000	01/11/2002	Jim Blumberg		02/21/2002	re-mailed	03/07/2002	phone msg.			
Terrell County	muni	222-1 additional wells	2000	180,000	01/11/2002	Judge Harrison		02/20/2002	e-mail	03/07/2002	phone msg.			
Terrell Co. WCID #1	muni	222-1 additional wells	2000	180,000	01/11/2002	Tom Lowrance	03/08/2002	02/20/2002	e-mail	03/07/2002	phone/fax	0	0	180,000

Political Subdivision (Entity Surveyed)	Q4 - Options Proposed	Q5 - Additional Strata?	Q6 - Strata Still Vailor?	Comments
Fort Davis WSC	unspecified grants	NO	YES	any available grants
High Frontier, Inc.	*the WSC depends on donations for capital expenditures*	NO	NO	adot well not considered viable because of connection limits
Jeff Davis County Livestock	private wells on private lands; public lands not available	NO	YES	private wells on private lands; public lands not available
Presidio County	private wells on private lands; public lands not available	NO	YES	private wells on private lands; public lands not available
Redford WSC	no answer; assumed both state & federal lands will be used for financing			no reply; assumed any available state & federal lands will be used
Carroll County WSC	no answer; assumed both state & federal lands will be used for financing			no reply; assumed any available state & federal lands will be used
Terrell County	no answer; private wells on private lands; public lands not available			private wells on private lands; public lands not available
Terrell Co. WCID #1	grants from any available source if needed by WCID for additional well	YES	YES	TCWCID #1 needs new pump station & storage tank est. cost \$250K

Appendix 5.

Copies of Completed Infrastructure Financing Report Surveys

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: Brewster County (County "Other")

Water Management Strategy Name: 22-1 Additional Wells (individual private wells)

Capital Cost: \$ 3,614,350.00

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)

The strategy involves private wells on private property; no public funds - state or local - are available

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 - 2005)? If yes, please list them below (use additional sheets, if necessary).

NO

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes

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: Study Butte Water Supply Corp.

Water Management Strategy Name: 22-1 Additional Wells

Capital Cost: \$ 3,614,350

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 \$ \$3,614,350

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). **TDHCA community development grants as well as USDA-RD grants**

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? **Yes**

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: Marathon WSC

Water Management Strategy Name: 22-1 Additional Wells

Capital Cost: \$ 3,614,350.00

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 \$ 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 \$ 3,614,350.00.

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)

GRANT FUNDS - USDA (RUS) mentioned on cover page

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 - 2005)? If yes, please list them below. (use additional sheets, if necessary)

NO

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

DON'T KNOW.

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). Answer to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: El Paso Water Utilities – Public Service Board

Water Management Strategy Name: 71-2 Supply Side Conservation

Capital Cost: \$ 23,353,600.00

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 \$ 14,176,800.00

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 \$ 21,265,200.00

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 \$ 14,176,800.00

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)

Federal and State grants, State Participation Program, State Revolving Fund Program.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Planning Group should consider during the next round of water planning activities (202 – 2005)? If yes, please list them below. (Use additional sheets, if necessary)

No new strategies. However, under Strategy 71-1, Demand Side Conservation, the Public Service Board recently adopted a new goal to reduce per capita consumption from 160 gpcd to 140 gpcd by 2010.

6. Are the strategies listed in the Far West Texas Regional Water Plan (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes. Concerning Strategy 71-2, Supply Side Conservation, El Paso Water Utilities has in the past offered the El Paso County Water Improvement District No. 1 (District) a proposal to enter into a cooperative financial arrangement for canal lining projects. However, the District declined this offer.

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). Answer to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: El Paso Water Utilities – Public Service Board

Water Management Strategy Name: 71-3 Reclamation

Capital Cost: \$ 72,869,103.00

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 \$ 36,434,052.00

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 \$ 54,651,077.00

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 \$ 36,434,052.00

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)

Federal and State grants, State Participation Program, State Revolving Fund Program.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Planning Group should consider during the next round of water planning activities (202 – 2005)? If yes, please list them below. (Use additional sheets, if necessary)

No new strategies. However, under Strategy 71-1, Demand Side Conservation, the Public Service Board recently adopted a new goal to reduce per capita consumption from 160 gpcd to 140 gpcd by 2010.

6. Are the strategies listed in the Far West Texas Regional Water Plan (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes

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). Answer to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: El Paso Water Utilities – Public Service Board

Water Management Strategy Name: 71-4 Surface Water Treatment

Capital Cost: \$ 273,445,428.00

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 \$ 136,722,714.00

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 \$ 205,084,071.00

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 \$ 136,722,714.00

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)

Federal and State grants, State Participation Program, State Revolving Fund Program.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Planning Group should consider during the next round of water planning activities (202 – 2005)? If yes, please list them below. (Use additional sheets, if necessary)

No new strategies. However, under Strategy 71-1, Demand Side Conservation, the Public Service Board recently adopted a new goal to reduce per capita consumption from 160 gpcd to 140 gpcd by 2010.

6. Are the strategies listed in the Far West Texas Regional Water Plan (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes.

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). Answer to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: El Paso Water Utilities – Public Service Board

Water Management Strategy Name: 71-5 Desalination

Capital Cost: \$ 27,681,705.00

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 \$ 2,768,705.00

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 \$ 3,913,000.00

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 \$ 24,913,000.00

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

Federal and State grants, State Participation Program, State Revolving Fund Program.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Planning Group should consider during the next round of water planning activities (202 – 2005)? If yes, please list them below. (Use additional sheets, if necessary)

No new strategies. However, under Strategy 71-1, Demand Side Conservation, the Public Service Board recently adopted a new goal to reduce per capita consumption from 160 gpcd to 140 gpcd by 2010.

6. Are the strategies listed in the Far West Texas Regional Water Plan (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes.

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). Answer to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: El Paso Water Utilities – Public Service Board

Water Management Strategy Name: 71-6a Groundwater Transfer (Antelope)

Capital Cost: \$ 356,138,169.00

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 \$ 178,069,084.00

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 \$ 267,103,626.00

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 \$ 178,069,084.00

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

Federal and State grants, State Participation Program, State Revolving Fund Program.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Planning Group should consider during the next round of water planning activities (202 – 2005)? If yes, please list them below. (Use additional sheets, if necessary)

No new strategies. However, under Strategy 71-1, Demand Side Conservation, the Public Service Board recently adopted a new goal to reduce per capita consumption from 160 gpcd to 140 gpcd by 2010.

6. Are the strategies listed in the Far West Texas Regional Water Plan (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes.

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). Answer to the following questions should be provided for each strategy. Use a new sheet for each water management strategy.

Name of Political Subdivision: El Paso Water Utilities – Public Service Board

Water Management Strategy Name: 71-6b Groundwater Transfer (Dell City)

Capital Cost: \$ 356,138,169.00

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 \$ 178,069,084.00

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 \$ 267,103,626.00

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 \$ 178,069,084.00

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)

Federal and State grants, State Participation Program, State Revolving Fund Program.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Planning Group should consider during the next round of water planning activities (202 – 2005)? If yes, please list them below. (Use additional sheets, if necessary)

No new strategies. However, under Strategy 71-1, Demand Side Conservation, the Public Service Board recently adopted a new goal to reduce per capita consumption from 160 gpcd to 140 gpcd by 2010.

6. Are the strategies listed in the Far West Texas Regional Water Plan (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes.



EL PASO COUNTY WATER IMPROVEMENT DISTRICT No. 1
294 CANDELARIA • EL PASO, TEXAS 79907-5599 • (915) 859-4186 • FAX (915) 858-4183

TAX OFFICE (915) 859-0819 • DISPATCHER (915) 859-9128

February 27, 2002

Ms. Barbara Kaufman
Environmental Services & Special Projects
Rio Grande Council of Governments
1100 N. Stanton Street, Suite 610
El Paso, Texas 79902

Re: Water Infrastructure Financing Survey

Dear Barbara:

I have chosen to prepare this letter in lieu of attempting to answer the questions as listed on the Water Infrastructure Financing Survey form. The questions as asked cannot be answered with short answers. I will number my answers as the question is numbered so that you will be able to relate the answer to the corresponding question.

Name of Political Subdivision: El Paso County Water Improvement
District #1 (the District)

Water Management Strategy Name: 71-2 Supply Side Conservation

Capital Cost: \$28,353,600

Answer #1 - The District is not able to finance capital cost out of water right taxes or charges to the water right landowners. An increase in water right taxes of 25% would only generate \$517,575 per year. In the process of drastically increasing water right taxes by 25%, we would devastate agriculture in the greater El Paso region. To increase taxes to water right landowners by 25%, 30%, 35%, etc. and then concrete line canals or laterals and give the conserved water to municipal needs would be totally unfair to the water right landowners. The District (Political Subdivision) cannot afford to pay any amount if the conserved water does not go to the water right landowners.

Answer #2 – The District can only provide revenue for the capital cost to the level of negotiations of a Third Party Implementing Contract for conserved water. Current revenue from taxes and charges is not sufficient enough to fund any part of the capital cost. The Political Subdivision (the District) cannot afford to pay any amount unless a Third Party Implementing Contract for conserved water is finalized.

Answer #3 – The District is unable to fund any portion of the \$28,353,600 capital cost as identified above, out of present taxes and/or charges. The Political Subdivision cannot afford to pay any portion of the subject capital cost.

Answer #4 – As discussed in #1 and #2 above, the District cannot fund any concrete lining without a Third Party Implementing Contract for the conserved water.

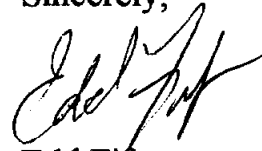
Answer #5 – The District (Political Subdivision) is in the process of setting rules and regulations for individual landowners to forbear their surface water allotment for a beneficial use other than irrigation. This will be one strategy to help meet water supply needs for municipal, environmental and recreational purposes.

Answer #6 – The District assumes that the supply side conservation is the strategy spoken to in Question #6 and if it is, the District will work to find ways to conserve supplies of water.

In closing, it is difficult to commit revenues and/or water supplies as suggested in the Water Infrastructure Financing Survey because of the inconsistency of surface water made available from storm events along the Rio Grande. The perfect scenario would be for the District to have a constant viable supply of water for decades to come. The El Paso Water Utilities have a 25-year supply of groundwater and when the Elephant Butte and Caballo Reservoirs are completely full, the District only has a three-year supply. To place demands for municipal use on the surface waters is not a smart management move due to the inconsistent inflows into the two reservoirs. The municipal purveyors must look internally at

their own operations before going outside for answers. There needs to be more of an effort placed on the conservation side of municipal water. People will conserve if they believe there is a drastic need. The municipal users need to work diligently to reduce their per capita average use to 100 gallons per day or less.

Sincerely,

A handwritten signature in black ink, appearing to read "Edd Fifer". The signature is written in a cursive style with a large, sweeping initial "E".

Edd Fifer

General Manager

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: El Paso County WCID #4 (Fabens)

Water Management Strategy Name: 71-15 Desalination/ Groundwater treatment

Capital Cost: \$ 5,456,250

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 \$ 545,625.

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 \$ 545,625.

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 \$ 4,910,625.

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)

BECC/NADBank loans, US Rural Development loans, any available state/federal grants or loans.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

Yes – surface water treatment, Reverse osmosis.

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes.

Recommended Water Management Strategies for El Paso Co. WCID #4 (Fabens)

Political Subdivision/ Respondent	Strategy	Strategy Implementation Date	Total Capital Cost	Comments
EPCWID #4 (Fabens)	71-15 desalination/ groundwater treatment	2010	\$ 5,456,250	

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: Homestead MUD

Water Management Strategy Name: 71-48 Additional Wells/Desalination

Capital Cost: \$ 12,896,675.00

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 \$ 280,000.00

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 \$ 520,000.00

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 \$ ~~12,315,000.00~~ \$12,376,675

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
loans

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

no

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)



Tuesday, March 26, 2002 1:17:07 PM
Message

From: JAcosta@co.el-paso.tx.us

Subject: RE: RE: infrastructure financing survey

To: Barbara Kauffman

Any program that will present itself as identified by our lobbying teams in consultation with our auditor and financial advisors.

-----Original Message-----

From: Barbara Kauffman [mailto:b.kauffman@riocog.org]

Sent: Tuesday, March 26, 2002 1:15 PM

To: JAcosta@co.el-paso.tx.us

Subject: Re: RE: infrastructure financing survey

Any particular federal or state funding sources mentioned? Specific programs? E.g. Clean Water/Drinking Water State Revolving Fund, CDBG, EDAP? I really need some feedback on the survey.

JAcosta@co.el-paso.tx.us writes:

>The only answer I have is that the County will depend heavily on federal
>and
>state dollars.

>-----Original Message-----

>From: Barbara Kauffman [mailto:b.kauffman@riocog.org]

>Sent: Tuesday, March 26, 2002 11:08 AM

>To: jacosta@co.el-paso.tx.us

>Subject: infrastructure financing survey

>Jesse, do you have any answers yet on the proposed financing mechanisms
>for El Paso County's proposed strategies in the original regional water
>plan?

>Barbara Kauffman

>Director, Environmental Services & Special Projects Division

>Rio Grande Council of Governments

>Phone: (915) 533-0998 ext. 121


>eFax: (815) 461-8500; Fax: (915) 532-9385



Thursday, April 11, 2002 3:27:55 PM
Message

From:  JAcosta@co.el-paso.tx.us

Subject: **RE: Draft Infrastructure Financing Report**

To:  Barbara Kauffman

I did not received any comments on the survey sent to the County either. Your general assumption that the County may not be able to afford financing the planned strategies is correct, however, I would word it as above: "County may not afford....."

-----Original Message-----

From: Barbara Kauffman [<mailto:b.kauffman@riocog.org>]
Sent: Thursday, April 11, 2002 3:18 PM
To: jacosta@co.el-paso.tx.us
Cc: tombeard@leoncita.com
Subject: Draft Infrastructure Financing Report

Jesse, attached is a copy of the draft Infrastructure Financing Report (in MS Word -- please let me know if you would like the file in a different format). Please note the discussion of the County of El Paso's strategies on page 13 of Appendix 2. I will be sending this draft out to the rest of the Water Planning Group tomorrow afternoon. If you would like any changes in the discussion of the County's financing options, please let me know as soon as possible, so that I can make any requested changes.

Thanks!

.....
Barbara Kauffman
Director, Environmental Services & Special Projects Division
Rio Grande Council of Governments
Phone: (915) 533-0998 ext. 121
eFax: (815) 461-8500; Fax: (915) 532-9385
E-mail: b.kauffman@riocog.org

Latest Far West Texas Water Planning Group Information at:
<http://24.28.171.253/rio/rgcog/EnvSvcs/FWTWPG/fwtwpg.htm>

Download Adobe Acrobat Free at:
<http://www.adobe.com/Acrobat/readstep.html>

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/Respondent: El Paso Electric Co.

Water Management Strategy Name: 71-32 Additional Wells (Hudspeth Co. Unit)

Capital Cost: \$ 600,000

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 \$ 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 \$ 600,000.

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)

State grants

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

Conservation --- water savings could be achieved by converting wet cooling towers to dry cooling towers, although the technology is very expensive. The cost to convert one generating plant from wet to dry cooling towers runs approximately \$12 million.

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see list of strategies below for your entity)

Yes.

Recommended Water Management Strategies for El Paso Electric Co.

Political Subdivision/ Respondent	Strategy	Strategy Implementation Date	Total Capital Cost	Comments
El Paso Electric Co.	71-32 Additional Wells (Hudspeth Co. Unit)	2020	\$ 600,000	

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: El Paso Co. Farm Bureau (El Paso livestock)

Water Management Strategy Name: 71-37 Expand Use of Existing Wells (individual private wells)

Capital Cost: \$ 124,000.00

- 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 \$ 100%

- 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

- Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 - 2005)? If yes, please list them below. (use additional sheets, if necessary)

NO

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

yes

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: El Paso Co. Farm Bureau (El Paso livestock)

Water Management Strategy Name: 71-40 Additional Wells - dairies (individual private wells)

Capital Cost: \$ 132,350.00

- 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 \$ 100%

- 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

- Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 - 2005)? If yes, please list them below. (use additional sheets, if necessary)

No

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes

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: Hudspeth County (County "Other")

Water Management Strategy Name: 115-1 Additional private wells

Capital Cost: \$ 84,500

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 \$ 84,500.

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 Program and Rural Utility Funding

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary) No.

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity) Yes.

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: Hudspeth County (County "Other")

Water Management Strategy Name: 115-4 Surface water treatment

Capital Cost: \$ 13,095,980

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 \$ 13,095,980.

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 and Rural Utility Funding.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary) No.

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity) Yes.

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: Hudspeth County (County "Other")

Water Management Strategy Name: 115-5 Desalination

Capital Cost: \$ 1,776,900

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 \$ 1,776,900.

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 and Rural Utility Funding.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary) No.

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity) Yes.

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: Hudspeth County (County "Other")

Water Management Strategy Name: 115-6a Groundwater Transfer (Wild Horse)

Capital Cost: \$ 5,245,500

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 \$ 5,245,500.

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 and Rural Utility Funding.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary) No.

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity) Yes.

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: Hudspeth County (County "Other")

Water Management Strategy Name: 115-6b Groundwater Transfer (Red Light Draw)

Capital Cost: \$ 8,534,300

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 \$ ~~8,534,300~~.

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 and Rural Utility Funding.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary) No.

Groundwater Transfer from Bone Spring Aquifer.

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity) Yes.

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: Esperanza Water Supply Corp. (Hudspeth County "Other")

Water Management Strategy Name: 115-1 Additional private wells

Capital Cost: \$ 84,500

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)

Investor-owned utility. Private funds will be used for any necessary system improvements.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

No

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

yes

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: Esperanza Water Supply Corp. (Hudspeth County "Other")

Water Management Strategy Name: 115-4 Surface water treatment

Capital Cost: \$ 13,095,980

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)

Investor-owned utility. Private funds will be used for any necessary system improvements.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

No

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes

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: Esperanza Water Supply Corp. (Hudspeth County "Other")

Water Management Strategy Name: 115-5 Desalination

Capital Cost: \$ 1,776,900

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)

Investor-owned utility. Private funds will be used for any necessary system improvements.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

No

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes

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: Esperanza Water Supply Corp. (Hudspeth County "Other")

Water Management Strategy Name: 115-6a Groundwater Transfer (Wild Horse)

Capital Cost: \$ 5,245,500

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)

Investor-owned utility. Private funds will be used for any necessary system improvements.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

No

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes

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: Esperanza Water Supply Corp. (Hudspeth County "Other")

Water Management Strategy Name: 115-6b Groundwater Transfer (Red Light Draw)

Capital Cost: \$ 8,534,300

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)

Investor-owned utility. Private funds will be used for any necessary system improvements.

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

No

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes

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: Hudspeth Co. CRD #1

Water Management Strategy Name: 115-10 Expand Use of Existing Wells (individual farm wells)

Capital Cost: \$ 50,000.00

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 \$ 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 \$ 50,000.

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)

*private wells on private lands; public \$
not available*

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

no

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

yes

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: Hudspeth Co. CRD #1

Water Management Strategy Name: 115-11 Additional Wells (individual farm wells)
Capital Cost: \$ 800,000.00

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 \$ 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 \$ 800,000.

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)

private wells on private land; public & not available

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

no

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

Yes

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: Hudspeth Co. CRD #1

Water Management Strategy Name: 115-12 Reservoir Storage Expansion
Capital Cost: \$ 425,000.00

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 \$ 425,000

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 \$ 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)

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

no

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

yes

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: High Frontier Inc.

Water Management Strategy Name: 122-1 Additional Wells

Capital Cost: \$ 155,350

- 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 \$ 155,350

- 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)

Our organizations depends on donations for any capital expenditures.

- 5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 - 2005)? If yes, please list them below (use additional sheets, if necessary)

No

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

Our population is held constant via licensing requirements, therefore an additional well is not viable or necessary, or affordable.

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: Fort Davis Water Supply Corp.

Water Management Strategy Name: 122-5 Purchase Water from FDWSC

Capital Cost: \$ 310,000

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 \$ 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 \$ 310,000.

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) All Grants

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary) No

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity) Yes

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: Jeff Davis County Livestock *More Road*

Water Management Strategy Name: Additional Wells (Individual private wells)

Capital Cost: \$ 450,000

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 \$ _____.

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)

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

A new well ²²⁰ ~~200~~ ft. deep equipped with windmill would cost about 14,500

the same well with an electric pump would cost about \$5,000

land owner would have to pay the total cost

6. Are the strategies listed in the *Far West Texas Regional Water Plan* (2001) for your political subdivision still considered viable? (see attached list of strategies for your entity)

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: Jeff Davis County Livestock

Water Management Strategy Name: Expanded Use of Existing Wells (Individual private wells)

Capital Cost: \$ 247,000

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 \$ _____.

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)

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 – 2005)? If yes, please list them below. (use additional sheets, if necessary)

To extend existing pipe lines would cost about 40¢ per ft for 1 1/4" pipe plus 65⁰⁰ per hr for tractor.

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

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: Presidio County (County "Other")

Water Management Strategy Name: 189-1 Additional Wells (individual private wells)

Capital Cost: \$ 855,000.00

- 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 \$ 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)

All of the costs for drilling wells on private property are the responsibility of the landowner(s), not the taxpayers of Presidio County.

- 5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 - 2005)? If yes, please list them below. (use additional sheets, if necessary)

None at this time.

6. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

yes

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: Terrell County WCID #1

Water Management Strategy Name: 222-1 Additional Wells

Capital Cost: \$ 180,000.00

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 \$ 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 \$ 180,000.

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)

GRANTS FROM ANY AVAILABLE SOURCE

5. Does the political subdivision have additional strategies to meet water supply needs in mind that the Far West Texas Water Planning Group should consider during the next round of water planning activities (2002 - 2005)? If yes, please list them below. (use additional sheets, if necessary)

**WE NEED TO BUILD A NEW PUMP STATION AND STORAGE TANK.
\$250,000**

8. Are the strategies listed in the *Far West Texas Regional Water Plan (2001)* for your political subdivision still considered viable? (see attached list of strategies for your entity)

YES

OUR DISTRICT IS IN THE PROCESS OF PUTTING IN A FIRST TIME SEWAGE SYSTEM FOR THE TOWN OF SANDERSON. ALL OF OUR AVAILABLE FUNDS ARE TIED UP IN THIS PROJECT. WE HAVE ASSUMED A \$400,000 DEBT THROUGH THE TWDB AND IT WOULD BE HARD FOR US TO TAKE ON ANY DEBT AT THIS TIME.

Recommended Water Management Strategies for Terrill County WCID #1

Political Subdivision	Strategy	Strategy Implementation Date	Total Capital Cost
Terrill Co. WCID #1	222-1 additional wells	2000	160,000

PUMP STATION & STORAGE TANK

\$250,000

\$ 430,000

Appendix 6.

**TWDB Executive Administrator's Comments on
The Draft Infrastructure Financing Report**



TEXAS WATER DEVELOPMENT BOARD



Wales H. Madden, Jr., *Chairman*
William W. Meadows, *Member*
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Executive Administrator

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Thomas Weir Labatt III, *Member*
E. G. Rod Pittman, *Member*

May 14, 2002

Mr. Jake Brisbin
Executive Director
Rio Grande Council of Governments
1100 North Stanton, Suite 610
El Paso, Texas 79902

RE: Regional Water Planning Grant Contract Between the Rio Grande Council of Governments (RGCOG) and the Texas Water Development Board (Board), Contract No. 2002-483-424, Review of Draft Final Reports Entitled "Infrastructure Financing Report, Far West Texas Water Planning Group, Region E"

Dear Mr. Brisbin:

Staff members of the Texas Water Development Board have completed a review of the draft report under TWDB Contract No. 2002-483-424 and offer no comments on the draft report.

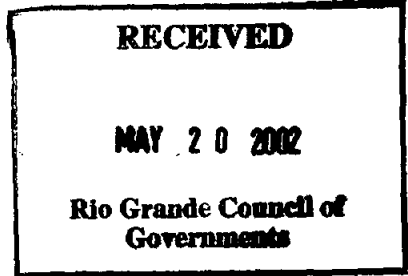
The Board looks forward to receiving one (1) electronic copy, one (1) unbound single-sided camera-ready original, and nine (9) bound double-sided copies of the final report on this planning project.

Please contact Mr. Robert Flores at (512) 463-8061 if you have any questions about this contract.

Sincerely,

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

Cc: Robert Flores, TWDB



Our Mission

Provide leadership, technical services and financial assistance to support planning, conservation, and responsible development of water for Texas.

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