*Glenn Jarvis Attorney, McAllen, Chairman

*James Darling, Attorney City of McAllen, Vice-Chairman

*Mary Lou Campbell Sierra Club, Mercedes, Secretary

*Robert E. Fulbright Hebbronville

*Roberto Gonzalez Waterworks, Eagle Pass

Jose Aranda Maverick Co. Judge, Eagle Pass

Charles Browning, Jr. North Alamo Water Supply Corp.

John Bruciak Brownsville PUB

Karen Chapman Environmental Defense

Sonny Hinojosa HCID No. 2, San Juan

Sonia Kaniger CCID No. 2, San Benito

James R. Matz Palm Valley

Donald K. McGhee Hydro Systems, Inc., Harlingen

Adrian Montemayor Water Utilities Dept., Laredo

Ray Prewett TCM, Mission

Xavier Villarreal T & J Office Supply, Zapata

Gary Whittington Unifirst Linen Service, Harlingen

John Wood, Commissioner Cameron County

*Executive Committee

September 12, 2006

Ms. Phyllis Thomas Texas Water Development Board Stephen F. Austin Building, Rm. 531 1700 North Congress Avenue Austin, TX 78711-3231

RE: Application for funding – Rio Grande Regional Water Planning Group (RGRWPG) / Region M

GRANDE

REGIONAL WATER PLANNING GROUP

Dear Ms. Thomas

Please find enclosed the required five (5) copies along with an electronic version of the completed proposal submitted to the Texas Water Development Board (TWDB) for consideration. As you know, the Lower Rio Grande Valley Development Council (LRGVDC) is the designated political subdivision for the Rio Grande Regional Water Planning Group (RGRWPG) created under Senate Bill 1.

This application is in response to the Request for Proposals published in the Texas Register on June 23, 2006. Attached for the TWDB's review are the following: a detailed Scope of Work for proposed planning; prioritization of Scope of Work tasks; a task budget for the detailed Scope of Work by task; an expense budget for the Scope of Work by expense category; a time schedule for completing the Scope of Work; specific deliverables for each task; method of monitoring study progress; the qualifications and direct expense of proposed project staff; written assurances; and, proof of notification.

Stewards of water resources from Amistad to the Gulf

Administrative Agent: Lower Rio Grande Valley Development Council, Kenneth N. Jones, Executive Director 311 N. 15th Street – McAllen, Texas 78501-4705 Telephone: 956-682-3481 Fax: 956-631-4670 Website: riograndewaterplan.org Page 2, September 12, 2006 Application for funding – Rio Grande Regional Water Planning Group (RGRWPG) / Region M

On behalf of the RGRWPG thank you for the opportunity to submit this proposal and please let me know if there are any questions.

Sincerely,

Kenneth N. Jones Jr.

Kenneth N. Jones Jr. LRGVDC Executive Director

CC:

Kevin Ward, Executive Administrator TWDB Kathleen Ligon, TWDB Glenn Jarvis, RGRWPG Chair RGRWPG Voting Members Bill Norris, NRS D. Ann Lyles, LRGVDC Director of Finance



Texas Water Development Board Research and Planning Fund Application



September 13, 2006

Applicant Representative: Kenneth N. Jones Executive Director Lower Rio Grande Development Council 311 N. 15th Street McAllen, TX 78501 Phone: (956)682-3481 Fax: (956)631-4670 E-mail: <u>knjones@lrgvdc.org</u> Vendor ID#: 74-1586916

I. GENERAL INFORMATION

1. Legal name of applicant(s).

Lower Rio Grande Valley Development Council as the designated Political Subdivision for the Rio Grande Regional Water Planning Group (Region M)

2. Regional Water Planning Group:

This application is being submitted for the Rio Grande Regional Water Planning Group (Region M).

3. Authority of law under which the applicant was created.

Senate Bill 1

4. Applicant's official representative, Name, Title, Mailing address, Phone number, Fax number, if available, E-mail Address, and Vendor ID Number.

Kenneth N. Jones, Jr. Executive Director Lower Rio Grande Valley Development Council (LRGVDC) 311 N. 15th Street McAllen, Texas 78501 Phone: (956)682-3481 Fax: (956)631-4670 E-mail: <u>knjones@lrgvdc.org</u> Vendor ID#: 74-1586916

5. Is this application in response to a Request for Proposals published in the <u>Texas</u> <u>Register</u>?

Yes

6. If yes to No. 6 above, list document number and date of publication of the <u>Texas</u> <u>Register</u>.

Volume 31, #25, page 5209 of the June 23, 2006 Texas Register

7. Type of proposed planning :

Initial scope of work Special studies approved by TWDB

8. Total proposed planning cost

The total proposed planning cost for all activities detailed in the scope of work is \$450,328.00. See Attachment #1 for additional details.

9. Cash Contribution to the study.

\$41,740.00 in local funds will be made available. See Attachment #1 for additional details.

- 10. List source of cash contribution, explanation of source of local cash contribution.
 - An \$11,500.00 contribution will be made by the International Boundary and Water Commission towards the Aquatic Weed Study.
 - A \$16,740.00 contribution will be made by the United States Bureau of Reclamation towards the Aquatic Weed Study.
 - A \$10,000.00 contribution will be made by the North Alamo Water Supply Corporation towards Regional Mapping and Jurisdictional Overlap Clarification
 - A \$3,500.00 contribution will be made by the Lower Rio Grande Valley Development Council towards Administrative activities.

See Attachment #1 for additional details.

11. Total grant funds requested from the Texas Water Development Board.

The Rio Grande Regional Water Authority is requesting \$408,588.00 in funding from the Texas Water Development Board to complete all activities described in the scope of work. See Attachment #1 for additional details.

12. Detailed statement of the purpose for which the money will be used.

The Region M (Rio Grande) Regional Water Planning Group encompasses an eight county region comprised of the following counties: Cameron, Hidalgo, Maverick, Jim Hogg, Starr, Webb, Willacy, and Zapata. Based on information provided by the Texas Water Development Board for the last round of regional planning, it is expected that the Region M population will grow in excess of 217 percent over the planning horizon. Accompanying this population growth is a considerable increase in water demands.

Over 60 percent of the region lies within the Rio Grande Basin, with the Rio Grande being the regions main source of surface water. In addition to surface water, water users in the region are beginning to explore alternative sources of water including brackish and seawater desalination, direct reuse, and indirect reuse. In the last round of regional planning, Water Management Strategies reflecting these ideas were recommended along with strategies aimed at conservation. With the region in the midst of another severe drought, it is all too important to continue expanding on past rounds of regional water planning to ensure a lasting and secure source of water for all users in the region. Based on the criteria laid forth by the Texas Water Development Board, 7 special studies/projects have been identified by the Region M Regional Water Planning Group. Each study/project is listed in detail in the scope of work, and funding provided by the TWDB will be used to achieve the following goals:

- Evaluate alternative water supply management strategies regarding the use and classification of existing water rights on the Lower and Middle Rio Grande
- Classify individual Irrigation Districts as Water User Groups
- Analyze results of completed demonstration projects
- Expand groundwater and surface water modeling and analysis
- Perform an aquatic weed study
- Prepare regional maps and clarify jurisdictional overlaps
- Prepare a Water Management Strategy Implementation Guide

The Region M Regional Water Planning Group is seeking Texas Water Development Board funding to complete the proposed studies/projects. \$41,740.00 of local cash contributions have been identified to help perform the necessary tasks. In addition, \$408,588.00 is being requested from the TWDB.

Each task is being performed to aid the Regional Planning Group in identifying and analyzing issues that are unique to this region. By performing the task described in the scope of work, the Region M Regional Water Planning Group will be better equipped to identify potential water supply deficits and recommend applicable water management strategies to meet the demands of the region. Funding from the TWDB will ensure that these studies are performed.

13. Detailed description of why state funding assistance is needed.

The Region M Regional Water Planning Group is seeking Texas Water Development Board funding to complete the proposed studies/projects. \$41,740.00 of local cash contributions have been identified to help perform the necessary tasks. In addition, \$408,588.00 is being requested from the TWDB.

State assistance is being requested due to insufficient local funding. Should the TWDB fund the request, a substantial amount of information will be gathered that will supplement and expand on the previous Regional Water Plan.

14. Identify potential sources and amounts of funding available for implementation of viable solutions resulting from proposed planning.

Potential funding sources for the implementation of viable solutions resulting from the proposed planning include the Texas Water Development Board, the Texas Commission on Environmental Quality, the United States Bureau of Reclamation, the International Boundary and Water Commission, Texas Parks and Wildlife Department, the U.S. Army Corp of Engineers, and other local sources. The potential amount of funding is not available at this time.

II. PLANNING INFORMATION

15. A detailed scope of work for proposed planning. (Not to exceed 6 pages.)

Please see Attachment #2 for the detailed scope of work.

16. Prioritization of scope of work tasks by the regional planning group.

Please see Attachment #2 for the prioritized scope of work.

17. A task budget for detailed scope of work by task.

Please see Attachment #1 for the Task Budget.

18. An expense budget for detailed scope of work by expense category.

Expense Budget

Category	Тс	Fotal Amount	
Salaries and Wages	\$	331,330.00	
Fringe	\$	-	
Travel	\$	-	
Other Expenses	\$	-	
Subcontract Services	\$	115,498.00	
Voting Planning Member			
Travel	\$	-	
Overhead	\$	3,500.00	
Profit	\$	-	
TOTAL	\$	450,328.00	

The Expense Budget can also be found in Attachment #1.

19. A time schedule for completing detailed Scope of Work by task.

Please see Attachment #3 for the Scope of Work Schedule.

20. Specific deliverables for each task in Scope of Work.

1. Evaluation of Alternative Water Supply Management Strategies Regarding the Use and Classification of Existing Water Rights on the Lower and Middle Rio Grande

Development of a technical memorandum describing the work performed and the results of the studies.

2. Classify Individual Irrigation Districts as Water User Groups

Detailed analyses of each individual Irrigation District in the region in terms of water supply, water demand, conveyance efficiencies, potential urbanization, and recommended water management strategies to meet needs.

3. Analyze Results of Completed Demonstration Projects

Detailed writeup documenting in length the studies performed and the results of such studies in terms of cost, effectiveness, and overall feasibility of recommending like projects as Water Management Strategies to meet the projected water supply deficits of the region. In addition, an incentive system will be developed for the implementation of on-farm conservation. This system could potentially serve as a guide to irrigation water users.

4. Expanded Groundwater Modeling and Analysis

Updated water supply analyses based on a more comprehensive approach to brackish groundwater modeling and the effects on surface water supplies. In addition, Groundwater Conservation Districts will be evaluated with recommendations being made as to the feasibility and effectiveness of such entities.

5. Aquatic Weed Study

Detailed writeup of effectiveness of aquatic weed control through the use of triploid grass carp in the Rio Grande.

6. Regional Mapping and Jurisdictional Overlap Clarification

A set of maps showing the service areas of municipalities, water supply corporations, water districts, and other regional suppliers. Jurisdictional overlaps will be located and clarified based on input and analysis of the effected entities.

7. Water Management Strategy Implementation Study

Development of a Project Effectiveness Matrix to evaluate effective strategies thereby aiding in implementation of such strategies.

8. Administration and Public Participation

Documentation of Planning Group meetings, minutes, and copies of all public participation activities.

21. Method of monitoring study progress.

Discussions will be held with the Rio Grande Regional Water Planning group at each Planning Group Meeting. At each meeting, project status will be discussed as will results of each project being performed. Discussions will be held with the Texas Water Development Board Region M Liaison on project status and applicable timelines.

22. Qualifications and direct experience of proposed project staff.

See Attachment #4 for qualifications and direct experience of proposed project staff.

Project/Element Charge Listing

Lower Rio Grande Valley Development Council

Period From 07/01/06 to 09/30/06

Date: 9/30/06 Run Date: 9/11/2006 Run Time: 11:14:09 am Page 1 of 1 1

Project: 35000 Water Supply Planning From to

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8/25/2006		VR 554 12867	THE MONTFOR 55300 Classified Ads Expenses Balance: Project Balance:	\$305.14 \$272.03 \$1,603.58 \$-1,603.58 \$-1,603.58			

Affidavit of Publication

STATE OF TEXAS) COUNTY OF WILLACY)

Before me, the undersigned authority, on this day personally appeared Paul E. Whitworth, known to me, who, being by me duly sworn, on his oath, deposes and says that he is the Publisher of THE RAYMONDVILLE CHRONICLE/NEWS, a newspaper published in the city of Raymondville, in the county of Willacy; that a copy of the within foregoing notice was published in the English/Spanish language, on

July 19, 2006

Notice of Application for Grant Assistance from Texas Water Development Board

the Lower Rio Grande Valley Development Council (LRGVDC) as the designated political subdivision approved by e Rio Grande Regional Water Planning Group (RGRWPG) is providing notice that it will submit an application for nding for revision of the Regional Water Plan to the Texas Water Development Board (TWDB) for activities and sks for the 2006-2007 biennium. The RGRWPG has been established under the provisions of Texas Senate Bill 1 to velop a regional water plan for the RGRWPG area (TWDB Region M), which includes the following counties: umeron, Hidalgo, Jim Hogg, Maverick, Starr, Webb, Willacy and Zapata. The regional water plan for this area will entify specific strategies to meet the water demands of all categories of water use for the next 30 years and identify vions to meet these water needs 30 and 50 years into the future.

the RGRWPG has designated the LRGVDC to submit an application to the Texas Water Development Board for state nancial assistance for funding for preparation of the 2006-2011 planning cycle. Copies of the application may be stained from the LRGVDC at the address below. A public hearing will be held at the Holiday Restaurant, 505 Hwy 3, Zapata, TX (956) 765-4521 (across from Chevron) on August 23, 2006 at 10:30 am. Written and oral comments ill be accepted at this meeting. Any comments on the application must be submitted to the LRGVDC or TWDB. eadline for the submittal of comments is Friday, August 25, 2006.

Mr. Kevin Ward, Executive Administrator Texas Water Development Board 1700 N. Congress Austin, Texas 78711-3231 Mr. Kenneth N. Jones Jr., Executive Director Lower Rio Grande Valley Development Council 311 North 15th Street McAllen, Texas 78501

or further questions or additional information please contact, Kenneth N. Jones Jr., in McAllen, Texas at the LRGVDC fice (956) 682-3481, fax (956) 631-4670. Notice of Application for Grant Assistance from

Texas Water Development Board The Lower Rio Grande Valley Council Development (LRGVDC) as the designated political subdivision approved by

the Rio Grande Regional Water Planning Group (RGRWPG) is te State of Texas providing notice that it will sub-

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Mr. Kevin Ward, Executive Administrator Mr. Kenneth N. Jones, Jr., Executive Director Texas Water Development Board Lower Rio Grande Valley Devel-

opment Council 1700 N. Congress 311 North 15th Street

Austin, Texas 78711-3231 McAllen, Texas 78501

For further questions or additional information please contact, Kenneth N. Jones, Jr., in McAllen, Texas at the LRGVDC office (956) 682-4381, fax (956) 631-4670.

PUBLISHER'S AFFIDAVIT

On this 25 day of Su personally باحت ر biennium. The RGRWPG has peared before me, the undersigned, a Notary Public in and for said Kex McBenth, publisher dev inpatregional water plan for the Eagle Pass News-Guide, a newspaper published at Eagle Pass, County gion M), which includes the fol- Maverick, State of Texas, who, being by me duly sworn, on oath, states, lowing counties: Cameron, Hidalgo, Jim Hogg, Maverick, lat the attached advertisement, a true copy of which is hereto annexed, was Starr, Webb, Willacy and Zapata. Iblished in said newspaper on area will identify specific strate llowing dates $, 2 \underline{\omega}_{k}$ and

of all categories of water use for a rate charged does not exceed the lowest rate charged by this publication the next 30 years and identify options to meet these water classified advertising nor rate charged commercial customers for similar

Publisher

Subscribed and sworn to before me, this the 25 day of

2000

Notary Public, Maverick County, Texas

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ENTERPRISE

Notice is hereby given pursuant to 8. CFR 274.9 that the properties described below were seized un the date specified at the identified location because of the alleged use in the commission of a violation of Section 274(a) of the Immigration and Nationality Act. (INA). The properties are subject to is considering forfeiture of the selzed properties, and sale or other disposal if declared from forfeiture pursuant to 28 CFR Part 9. Petitions for relief from forfeiture must be filed with the U.S. Border Patrol Asset Furficiture office at 3801 S. Zapata HWY, Laredo Texas, 78046 and should be forfeited. Any pursue with an appropriate property interest in a property may. file a petition for relief forfeiture except as provided in 8 CFR 274.5(b) and 18 USC 983. U.S. Customs and Border Protection lied within thirty days of the date of the first publication of this advertisement. (CBP)

must identify the apecific property being claimed, must state the claimant's interest in the property, should claiming ownership of a soized proporty may request a judicial forfeiture proceeding include customary documentary evidence in the property interest, and must be made under path, subject linal publication of this advertisement. The claim must be filed on or before 326/2006 3. The claim Patrol 3801 S. Zuputu HWY, Laredo Texas, 78046 and must he filed within thirty days of the date of the by filing a claim pursuant to 8 CFR 274.10 and 18 USC 983. Such claim must be filed at U.S. Burder penally of perjury. person Any

Dates of Publication:

07/27/06

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Mario S. Cavazos

Supervisory Asset Forfeiture Officer

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Fips For Driving Down Insurance Rates

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JIM HOGG COUNTY ractive offers. The Web site is unique in that users need only **PUBLIC NOTICE** riers that can typically make atprovide their information once,

2006, at the County Court House of Jim Hogg County The County of Jim Hogg will hold a public hearing at

TEXAS COMMUNITY DEVELOPM

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Jim Hogg County is an equal opportunity employer and does not discriminate against race, color national origin, sex, age, religion, political beliefs or disability.

Agapito "Cuate" Molina County Judge

Notice of Application for Grant Assistance from Texas Water Development Board

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Mr. Kevin Ward, Executive Administrator Texas Water Development Board 1700 N. Congress Austin, Texas 78711-3231 Mr. Kevin N. Jones, Jr., Executive Director Lower Rio Grande Valley Development Council 311 North 15th Street McAllen, Texas 78501

For further questions or additional information please contact, Kenneth N. Jones Jr., in McAllen, Texas at the LRGVDC office (956) 682-3481, fax (956) 631-4670.

July 20, 2006

Eagle Pass Business Journal

unveils environmental platio **V**

By KRISTEN HAYS / **Associated Press**

al record Tuesday while sal to crack down on big rial candidate Chris Bell abbed Republican Gov. promoting his own propo-Democratic gubernato-Rick Perry's environmenpolluters.

"Under Rick Perry's reign of error, polluters actually get rewarded for violating environmental aws," Bell said.

at all — while health care

costs to treat respiratory

illnesses exacerbated by

dirty air reach into the

billions.

for violations — if fined

Bell visited Houston after appearing first in Port Arthur to kick off his mental tour, which also ncludes stops in San Antonio, Dallas, Mission 'Healthy Texas" environ-

the sun cooks the polluted air into a noxious mix, Bell cited a 2003 state

Bell said

audit of the Texas that said the agency failed sing accurately calculated to consistently hold violators accountable by impopenalties or fully collecting delinquent fines. Environmental Commission polluters pay minor fines He cited air pollution as tions by the governor's a major health care issue administration. He said and berated Perry's lax enforcement of environmental laws and regulaand Corpus Christi.

In addition, the audit report said companies absorb the fines as the cost of doing business. The state audit showed that of 80 violation cases and 2003, companies made \$8.6 million by not complying with air quality standards, compared to \$1.7 million paid out in in fiscal years 2001, 2002 fines.

> "The problem is at its worst during summer months when the heat of

we're Bell's environmental sive punishment for violaplatform calls for aggresting clean air standards.

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The Lower Rio Grande Valley Development Council (LRGVDC) as the desig-TEXAS WATER DEVELOPMENT NOTICE OF APPLICATION FOR **GRANT ASSISTANCE FROM** BOARD

Region M), which includes the following counties: Cameron, Hidalgo, Jim nium The RGRWPG has been established under the provisions of Texas Hogg, Mayerick, Starr, Webb, Willacy and Zapata. The regional water plan for gories of water use for the next 30 years and identify options to meet these this area will identify specific strategies to meet the water demands of all catetion for funding for revision of the Regional Water Plan to the Texas Water Development Board (TWDB) for activities and tasks for the 2006-2007 bien-Senate Bill I to develop a regional water plan for the RGRWPG area (TWDB nated political subdivision approved by the Rio Grande Regional Water Planning Group (RGRWPG) is providing notice that it will submit an applicawater needs 30 to 50 years into the future. The RGRWPG has designated the LRGVDC to submit an application to the preparation of the 2006-2011 planning cycle. Copies of the application may be obtained from the LRGVDC at the address below. A public hearing will be ments will be accepted at this meeting. Any comments on the application must Texas Water Development Board for state financial assistance for funding for (across from Chevron) on August 23, 2006 at 10:30 a.m. Written and oral combe submitted to the LRGVDC or TWDB. Deadline for the submittal of comheld at the Holiday Restaurant, 505 Hwy 83, Zapata, TX (956) 765-4521 ments is Friday, August 25, 2006

Mr. Kevin Ward, Executive Administrator Texas Water Development Board 1700 N. Congress Austin, Texas 78711-3231

Lower Rio Grande Valley

Executive Director

Development Council 311 North 15th Street McAllen, Texas 78501

Mr. Kenneth N. Jones, Jr.,

Notice of Application for Grant Assistance from Texas Water Development Board The Lower Rio Grande Valley Development Council (LRGVDC) as the designated political subdivision approved by the Rio Grande Regional Water Planning Group (RGRWPG) is providing	Promote Responsible Homeownership Michael Gerber, Executive Director, Texas Department of Housing and Community Affairs (TDHCA) With the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher for the notable exceptions of scores up to 7 percent higher of a renter in 2001, individuals and families a scording to the National possible, and we use this month association of Reattors, was of achievement in 2001, individuals and families in all for personal wealth. The median net honeownership also has a Governor Perry and TDHCA are perconnic development. The median here were the fore buying a hone beginning to recognize. The National possible, and we use this month association of Reature in wealth recovery in a 22-county region of the rest scores, and enough in low-interest onther factors being equal – thusing Studies found that – all region. TOHCA at (800) 792-1119 wealt were there one inverse that are up simply walk away. Experience in the scores that are up simply walk away. Experience is of a percent higher and reading often does not pream thus and on the fore there in the scores that are up simply walk away. Experience there than the scores and enough to help low income beauty prove the scores and enough to help low income beauty of your work weak the fore there and incream thus and income for the score and interse and you purchase in the formation. This is a for th
and Protocol Program and other nominees must have de state initiatives in relation to their substantial body o respective art discipline. including at least one pu Furthermore, poet laureates gain that is not self-publish association with the National musician nominees mu Network of Poet Laureates and substantial body o	Chosen artists will join the state y benson, James Suris and kathy Vargas. In addition, state two-dimensional artist and state three-dimensional artists and kathy Vargas. In addition, poet the state in the state wile perfite benefits. In CA signal and promotions and the promotions and promotions and promotions and promotions and promotions and promotion in TCA's Diplomacy In addition, poet the process in the process. The process in the process. The process in the process. The process in the process. The process in the proces
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MOTOR VEHICLES: AT PUBLIC AUCTION TO THE HIGHEST BIDDER THE FOLLOWING DESCRIBED OBREGON ST. ACROSS FROM THE ROMA POST OFFICE IN ROMA, TX., WILL SELL 22nd, 2006 BETWEEN THE HOURS OF 10:00 A.M. AND 4:00 P.M. AT EAST US 83 AND THE UNDERSIGNED SHERIFF OF STARR COUNTY, TEXAS WILL SELL ON JULY 2. 1988-----1. 1999------FORD PK--For further questions or additional information please contact, Kenneth N. Jones Jr., in McAllen, Texas at the LRGVDC office (956) 682-3481, fax (956) 631-4670 Austin, Texas 78711-323 Texas Water Development Board of comments is Friday, August 25, 2006. comments on the application must be submitted to the LRGVDC or TWDB. Deadline for the submittal August 23, 2006 at 10:30 a.m. Written and oral comments will be accepted at this meeting. Any held at the Holiday Restaurant, 505 Hwy 83, Zapata, TX, (956) 765-4521 (across from Chevron) on of the application may be obtained from the LRGVDC at the address below. A public hearing will be Board for state financial assistance for funding for preparation of the 2006-2011 planning cycle. Copies to 9 percent higher and reading adds up to math scores that are up 1700 N. Congress Mr. Kevin Ward, Executive Administrator years and identify options to meet these water needs 30 and 50 years into the future. identify specific strategies to meet the water demands of all categories of water use for the next 30 fewer behavioral problems. This the RGRWPG area (TWDB Region M), which includes the following counties: Cameron, Hidalgo, subdivision approved by the Rio Grande Regional Water Planning Group (RGRWPG) is providing Jim Hogg, Maverick, Starr, Webb, Willacy and Zapata. The regional water plan for this area will has been established under the provisions of Texas Senate Bill 1 to develop a regional water plan for Water Development Board (TWDB) for activities and tasks for the 2006-2007 biennium. The RGRWPG notice that it will submit an application for funding for revision of the Regional Water Plan to the Texas The RGRWPG has designated the LRGVDC to submit an application to the Texas Water Development The Lower Rio Grande Valley Development Council (LRGVDC) as the designated political Notice of Application for Grant Assistance from -----CHEV DV ---- ----- and enough to help low income **Texas Water Development Board RIO GRANDE CITY, TEXAS 78582** NOTICE OF PUBLIC AUCTION FAX NUMBER: (956) 487-3070 SHERIFF'S DEPARTMENT PHONE: (956) 487-5571 100 EAST 6TH STREET often does not prepare renters for simply walk away. Experience households buy a home and COUNTY OF STARR ---VIN# IFTNF20LXXEB08150-----TX LPS- 49CMT3 311 North 15th Street Lower Rio Grande Valley Development Council Mr. Kenneth N. Jones, Jr., Executive Director McAllen, Texas 78501 to fulfill yours. times each year. Give us a chance American Dream thousands of home of your own. We fulfill the icatii we can nelp you purchase a opportunity employer." status, or other nonmerit factors. FSA is an equal employment sex, political affiliation, physical or mental disability, age, marital discrimination because of race, color, religion, national origin, and must be able to adjust to changes. Must be 18 years of age. Must be a US citizen. "Candidates will be considered without meet deadlines, must be dependable, must be willing to work. applications will not be considered. Employee must be able to County FSA Office by COB July 21, 2006. Incomplete applications along with KSA's shall be returned to the Star. Grande City, Texas 78582 or call 956/487-2511 ext. 2. Completer office or from the Starr County FSA Office, PO Box 84, Rit Program. announcement and blank forms may be obtained from any FS/ be received along with KSA's. The detailed vacanc also be proficient in the IBM System 36 and the PC compute nominated for the state artists seeing the variety of talent that is completed FSA-675, Application for County Employment, mus with the ability to navigate within Windows. To apply, affiliation with the Vermont Studio Program, & Production Adjustment Programs. Applications mu Agency. The position is located in Rio Grande City, T? permanent fulltime position with the USDA-Farm Servic Center Writers Residency Network of Poet Laureates and association with the National state initiatives in relation to their and Protocol Program and other Limitation/Eligibility, Noninsured Crop Disaster Assistanc Applicants must be knowledgeable in FSA programs for Payme; Applications are being accepted until July 21, 2006 for Furthermore, poet laureates gain respective participation in TCA's Diplomacy promote arts education in schools. position as a public forum to opportunity to exercise this Specific benefits "We are looking forward to EQUAL EMPLOYMENT OPPORTUNITY PERMANENT PROGRAM TECHNICIAN art discipline. VACANCY ANNOUNCEMENT include the majority of their income f available records, or at leas musical endeavors. Visual in a formal classroom, or rec including at least two nation substantial body of w years experience teaching m musician nominees must ha substantial body of w success in their respe that is not self-published. nominees must have develo regional or national publica received critical reviews in disciplines. They also mus including at least one public In addition, poet lau

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LAREDO MORNING TIME

MONDA

| LAREDO MORNING TIMES



VALLEY MORNING STAR

Sunday, July 16, 2006 ★ :

NOTICE OF APPLICATION FOR GRANT ASSISTANCE FROM TEXAS WATER DEVELOPMENT

The Lower Rio Grande Valley Development Council (LRGVDC) as the designated political subdivison approved by the Rio Grande Regional Water Planning Group (RGRWPG) is providing notice that it will submit an application for funding for revision of the Regional Water Plan to the Texas Water Development Board (TWDB) for activities and tasks for the 2006-2007 biennium. The RGRWPG has been established under the provisions of Texas Senate Bill 1 to develop a regional water plan for the RGRWPG area (TWDB Region M), which includes the following counties: Cameron, Hidalgo, Jim Hogg, Maverick, Starr, Webb, Willacy, and Zapata. The regional water plan for this area will identify specific strategies to meet the water demands of all categories of water use for the next 30 years and identify options to meet these water needs 30 and 50 years into the future.

The RGRWPG has designated the LRGVDC to submit an application to the Texas Water Development Board for state financial assistance for funding for preparation of the 2006-2011 planning cycle. Copies of the application may be obtained from the LRGVDC at the address below. A public hearing will be held at the Holiday Restaurant, 505 Hwy 83, Zapata, TX, (956) 765-4521 (across from Chevron) on August 23, 2006 at 10:30 a.m. Written and oral comments will be accepted at this meeting. Any comments on the application must be submitted to the LRGVDC or TWDB. Deadline for the submittal of comments is Friday, August 25, 2006.

Mr. Kevin Ward, Executive Admistrator Texas Water Development Board 1700 N. Congress Austin, Texas 78711-3231 Mr. Kenneth N. Jones, Jr., Executive Director Lower Rio Grande Valley Development Council 311 North 15th Street McAllen, Texas 78501

For further questions or additional information please contact, Kenneth N. Jones, Jr., in McAllen, Texas at the LRGVDC office (956) 682-3481, fax (956) 631-4670.

Saturday, July 15, 2006 🏾 THE MONITOR, McAllen, Texas

Notice of Application for Grant Assistance from Texas Water Development Board

The Lower Rio Grande Valley Development Council, (LRGVDC) as the designated political subdivision approved by the Rio Grande Regional Water Planning Group (RGRWPG) is providing notice that it will submit an application for funding for revision of the Regional Water Plan to the Texas Water Development Board (TWDB) for activities and tasks for the 2006-2007 biennium. The RGRWPG has been established under the provisions of Texas Senate Bill 1 to develop a regional water plan for the RGRWPG area (TWDB Region M), which includes the following counties: Cameron, Hidalgo, Jim Hogg, Maverick, Starr, Webb, Willacy and Zapata. The regional water plan for this area will identify specific strategies to meet the water demands of all categories of water use for the next 30 years and identify options to meet these water needs 30 and 50 years into the future.

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Mr. Kenneth N. Jones, Jr., Executive Director Lower Rio Grande Valley Development Council 311 North 15th Street McAllen, Texas 78501

For further questions or additional information please contact, Kenneth N. Jones Jr., in McAllen, Texas at the LRGVDC office (956) 682-3481, fax (956) 631-4680.

SUNDAY, JULY 16, 2000 | THE BROWNSVILLE MERALD | PAGE GI 🔫

Notice of Application for Grant Assistance from Texas Water Development Board

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Mr. Kevin Ward, Executive Administrator Texas Water Development Board

Mr. Kenneth N. Jones, Jr., Executive Director Lower Rio Grande Valley Development Council 311 North 15th Street McAllen, Texas 78501

1700 N. Congress Austin, Texas 78711-3231

For further questions or additional information please contact, Kenneth N. Jones Jr., in McAllen, Texas at the LRGVDC office (956) 682-3481, fax (956) 631-4670.

7/16/06

Notice of Application for Grant Assistance from Texas Water Development Board

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Mr. Kevin Ward, Executive Administrator Texas Water Development Board 1700 N. Congress Austin, Texas 78711-3231 Mr. Kenneth N. Jones, Jr., Executive Director Lower Rio Grande Valley Development Council 311 North 15th Street McAllen, Texas 78501

For further questions or additional information please contact, Kenneth N. Jones Jr., in McAllen, Texas at the LRGVDC office (956) 682-3481, fax (956) 631-4670.

Marcie Oviedo

From: Edward Vela [EVELA@tceq.state.tx.us]

Sent: Monday, July 24, 2006 3:41 PM

To: Marcie Oviedo

Subject: RE: Notice of Application Submittal for Region M

Marcie,

As per Aminta, the report with the inserts was re-mailed today.

Thanks,

Ed Vela

>>> "Marcie Oviedo" <moviedo@lrgvdc.org> 7/14/2006 10:25 AM >>> Thanks Ed, No additional information for the notice.

Marcie

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

From: Edward Vela [mailto:EVELA@tccq.state.tx.us]
Sent: Friday, July 14, 2006 9:42 AM
To: Marcie Oviedo; Aminta Cuellar
Cc: Debby Morales; Kenneth N. Jones; crubins@tccq.state.tx.us
Subject: Re: Notice of Application Submittal for Region M

Marcie,

The Monthly Report, which includes the Notice, is scheduled to go out today, July 14th. Please let us know if you need additional information.

Thanks,

Ed Vela

>>> "Marcie Oviedo" <moviedo@lrgvdc.org> 7/11/2006 8:43 AM >>> Ms. Cuellar,

Attached please find the notice that we talked about this morning, which will be included in the mail out to all your water rights holders. I will provide copies for you after the Region M. Meeting scheduled for Wednesday, July 12, 2006, approves the submittal, hopefully that same day. Please tell me how many copies you need. Any questions please call me at (956) 682-3481 or e-mail.

Thank you,

Marcie

<<Region M-Newspaper-Notice of App 7 2006.doc>>

*Glenn Jarvis Attorney, McAllen, *Chairman*

*James Darling, Attorney City of McAllen; *Vice-Chairman*

*Mary Lou Campbell Sierra Club, Mercedes, Secretary

*Robert E. Fulbright Hebbronville

*Roberto Gonzalez Waterworks, Eagle Pass

Jose Aranda Maverick Co. Judge, Eagle Pass

John Bruciak Brownsville PUB

Karen Chapman Environmental Defense

Charles Browning, Jr. North Alamo Water Supply Corp.

Kathleen Garrett Topaz Power Group

Sonny Hinojosa HCID No. 2, San Juan

Sonia Kaniger CCID No. 2, San Benito

James R. Matz Palm Valley

Donald K. McGhee Hydro Systems, Inc., Harlingen

Adrian Montemayor Water Utilities Dept., Laredo

Ray Prewett TCM, Mission

Xavier Villarreal T & J Office Supply, Zapata

Gary Whittington Unifirst Linen Service, Harlingen

John Wood, Commissioner Cameron County

*Executive Committee

REGIONAL WATER PLANNING GROUP

July 13, 2006

Mr. Steve Williams U.S. Fish & Wildlife Service 1849 C Street, N.W., MS-3012 Washington, D.C. 20240-1849

RE: Notice of Application for Grant Assistance from Texas Water Development Board

Dear Mr. Williams:

The Lower Rio Grande Valley Development Council (LRGVDC) as the designated political subdivision approved by the Rio Grande Regional Water Planning Group (RGRWPG) is providing notice that it will submit an application for funding for revision of the Regional Water Plan to the Texas Water Development Board (TWDB) for activities and tasks for the 2006-2007 biennium. The RGRWPG has been established under the provisions of Texas Senate Bill 1 to develop a regional water plan for the RGRWPG area (TWDB Region M), which includes the following counties: Cameron, Hidalgo, Jim Hogg, Maverick, Starr, Webb, Willacy and Zapata. The regional water plan for this area will identify specific strategies to meet the water demands of all categories of water use for the next 30 years and identify options to meet these water needs 30 and 50 years into the future.

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Mr. Kevin Ward, Executive Administrator Texas Water Development Board 1700 N. Congress Austin, Texas 78711-3231

Stewards of water resources from Amistad to the Gulf

Administrative Agent: Lower Rio Grande Valley Development Council, Kenneth N. Jones, Executive Director 311 N. 15th Street – McAllen, Texas 78501-4705 Telephone: 956-682-3481 Fax: 956-631-4670 Website: riograndewaterplan.org

PAGE TWO, July 13, 2006 Notice of Application for Grant Assistance from TWDB

The name and address of the LRGVDC Executive Director is:

Mr. Kenneth N. Jones, Jr., Executive Director Lower Rio Grande Valley Development Council 311 North 15th Street McAllen, Texas 78501

For further questions or additional information please contact, Kenneth N. Jones Jr., in McAllen, Texas at the LRGVDC office (956) 682-3481, fax (956) 631-4670.

Sincerely,

cc:

Kenneth N Jones, Executive Director

Kevin Ward, TWDB Executive Director

Glenn Jarvis - Law Offices InterNational Bank Bldg 1801 So. 2nd St., Ste. 550 McAllen, TX 78503

Mary Lou Campbell R.R. #2, Box 88 Mercedes, TX 78570

Jose Aranda Maverick County 500 Quarry St. Eagle Pass, TX 78852

Kathleen Garrett Sempra Texas Services, LP 2705 Bee Caves Rd., Ste. 340 Austin, TX 78746

James R. Matz 900 Palm Valley Dr., West Harlingen, TX 78552

Ray Prewett Texas Citrus Mutual 901 Business Park Dr., Ste 400 Mission, TX 78572

John Wood Cameron County 964 E. Harrison Brownsville, TX 78520

Ernesto Reyes U.S. Fish & Wildlife Service Route 2, Box 202-A Alamo, TX 78516

Bill Norris NRS Consulting Engineers P.O. Box 2544 Harlingen, TX 78551

Guadalupe Carlos Garza 1460 E. 6th Street Roma, TX 78584

Keyion "M

Jim Darling City of McAllen 1300 Houston McAllen, TX 78501

Robert E. Fulbright 701 North Frans Ave. Hebbronville, TX 78361

John Bruciak Brownsville Public Utilities Board P.O. Box 3270 Brownsville,TX 78523-3270

Sonny Hinojosa Hidalgo County Irrigation Dist. #2 P.O. Box 6 San Juan, TX 78589

Donald K. McGhee Hydro Systems, Inc. 1501 North 28th Street Harlingen, TX 78550

Xavier Villarreal T & J Office Supply 5105 Stop 51A Zapata, TX 78056-2859

Tomas Rodriguez Webb County 1110 Washington St., Ste. 303 Laredo, TX 78040

Rick Reyes IBWC 325 Golf Course Road Mercedes, TX 78570

Lee Kirkpatrick Texas State Bank 629 E. Elizabeth Brownsville, TX 78520

Jaime Gomez Topaz Power Group 7300 CPL Road Laredo, TX 78041 Charles (Chuck) W. Browning', Jr. North Alamo Water Supply 420 South Doolittle Rd. Edinburg, TX 78539

Roberto Gonzalez Eagle Pass Waterworks P.O. Box 808 Eagle Pass, TX 78853

Karen Chapman Environmental Defense 1301 E. Madison Brownsville, TX 78520

Sonia Kaniger CCID #2 P.O. Box 687 San Benito, TX 78586

Adrian Montemayor Water Utility Department P.O. Box 2950 Laredo, TX 78044

Gary Whittington Unifirst Linen Service P.O. Box 2086 Harlingen, TX 78551

Randy Blankinship Texas Parks & Wildlife Department 95 Fish Hatchery Road Brownsville, TX 78520

Linda Fernandez Fernandez Group, Inc. 1300 Guadalupe St., Suite 201 Austin, TX 78701

Mercurio Martinez Webb County Judge P.O. Box 29 Laredo, TX 78040

Gordon Hill Bayview Irrigation District Route 3, Box 19 Los Fresnos, TX 78566

ΛÇ

Jack Nelson 1304 Brook Hollow Drive Bryan, TX 77802

Roel Rodriguez McAllen Public Utilities P. O. Box 220 McAllen, TX 78505-0220

Kegion "M"

Steve Bearden Rio Grande Valley Sugar Growers P.O. Box 459 Santa Rosa, TX 78593

Ron Thomas Harlingen Waterworks P. O. Box 1950 Harlingen, TX 78551 Brian Macmanus East Rio Hondo Water Supply Corp. P. O. Box 621 Rio Hondo, TX 78583

Jo Jo White Hidalgo & Cameron Cos. ID#9 P. O. Box 237 Mercedes, TX 78570 W. Greg Carter, P.E.Region 5 EngineeringP.O. Box 2121Corpus Christi, TX 78403-2121

Amando Garza South Texas Development Council P.O. Box 2187 Laredo, TX 78044-2187

Francisco Ponce Dimmit County 103 North 5th Street Carrizo Springs, TX 78834

Carlos Marin IBWC 4171 N. Mesa, Bldg. C-310 El Paso, TX 79902

Tomas M. Rodriguez, Jr., P.E. Webb County Engineering 1110 Victoria St., Ste. 207 Laredo, TX 78040

Fausto Yturria 1 North Park Plaza Brownsville, TX 78521

David Burgoine, P.E. DB Consulting P.O. Box 57 La Feria, TX 78559-0057

James Kowis James Kowis Consulting 817 Texas Trail Austin, TX 78737-9676

Carlos Rubinstein TCEQ 1804 W. Jefferson Harlingen, TX 78550

Hidalgo County Clerk 100 N. Closner Edinburg, tX 78539

Interested Entities.

Zach Davis Davis Hardware P.O. Box 100 Brackettville, TX 78832

Pedro R. Garza EDA-U.S. Dept. of Commerce 504 Lavaca, Ste. 1100 Austin, TX 78701

John Keiser South Texas Development Council P.O. Box 2187 Laredo, TX 78044-2187

Kevin Ward Texas Water Development Board P.O. Box 13231 Austin, TX 78711-3231

Dexter J. Svetlik USDA 13434 Up River Rd., A-14 Corpus Christi, TX 78410

Ing. David Negrete Arroyos CILA P.O. Box 6967 Laredo, TX 78042

Guy Fipps TAMU 2117 College Station, TX 77843-2117

Jorge L. Trevino Translation Services 1765 Old Creek Ct. Brownsville, TX, 78521

Wayne Halbert Harlingen Irrigation District P.O. Box 148 Harlingen, TX 78551

Willacy County Clerk 190 N. 3rd Street Raymondville, Tx 78580 Jose Sanchez Texas Dept. of Agriculture 900-B East Expy 83 San Juan, TX 78589

Robert Hannesschlager US - EPA Region 6 1445 Ross Ave., Ste 1200 Dallas, TX 75202-2733

Bernadino Olague I B W C The Commons, Bldg., C, Ste 310 4171 N. Mesa Street El Paso, TX 79902

Jim Robinson Building C, Suite 310 4171 N. Mesa Street El Paso, TX 79902

Richard Tomlinson Dept. of Defense - Corps of Engineers P.O. Box 1229 Galveston, TX 77553-1229

R.J. Brandes R.J. Brandes Company 4900 Spicewood Springs Road Austin, TX 78759

Nadira Kabir Turner Collie & Braden, Inc. 400 W. 15th St., Ste. 500 Austin, TX 78701

Arianna Vazquez Rumbo Del Valle 311 S. Broadway McAllen, TX 78501

Cameron County Clerk 964 E. Harrison St. Brownsville, TX 78520

Jim Hogg County Clerk P.O. Box 729 Hebbronville, TX 78561 Maverick County Clerk 500 Quarry Ste. #3 Eagle Pass, TX 78852

Zapata County Clerk P.O. Box 789 Zapata, TX 78076

Gale Armstrong El Jardin Water Supply 5250 Coffeeport Rd.,Ste "D" Brownsville, TX 78521

Joe A. Barrera Brownsville Irr. & Drainage Dist. 6925 Coffee Port Road Brownsville, TX 78521

Jacqueline Burson Nat'l Fish & Wildlife Foundation 1120 Connecticut Ave., N.W., Ste 900 Washington, D.C. 20036

Greg Characklis AZURIX P.O. Box 1188 Houston, TX 77251-1188

Joe Coulter 1810 Central Blvd. Brownsville, TX, 78520

Hudson R. DeYoe UT @ Pan American 1201 W. University Drive Edinburg, TX 78539-2999

Noe Fernandez TWDB 1510 Beaumont McAllen, TX 78501

Larry Galbreath Pletcher's Wholesale Nursery P.O. Box 530070 Harlingen, TX 78553

Interested Entitles

Starr County Clerk 401 N. Britton Ave. Rio Grande City, TX 78582

Fernando Albornoz Nat'l Wildlife Federation 44 East Ave., Suite 200 Austin, TX 78701

Lorenzo Arriaga U.S. Bureau of Reclamation 700 E. San Antonio, St., Suite 318 El Paso, TX 79901

Carolyn Brittin TCEQ P.O. Box 13087 Austin, TX 78711-3087

Bill Card, Jr. Card Investment Group, Inc. P.O. Box 1671 Harlingen, TX 78551

Earl Chilton, II Texas Parks & Wildlife 4200 Smith School Road Austin, TX 78744-3292

Michael Davidson Far Flung Adventures Box 377 Terlingua, TX 79852

Eddy Edmondson, TNCP Texas Nursery & Landscape Ass'n. 7730 South IH-35 Austin, TX 78745-6698

Wendy Foster 1501 Barton Springs Rd., #227 Austin, TX 78704

Buddy Garcia Office of the Governor P.O. Box 12428 Austin, TX 78711 Webb County Clerk 1000 Houston St., 1st Floor Laredo, TX 78076

Jose M. Amador Tex Ag. Experiment Station 2415 E. Highway 83 Weslaco, TX 78596

Jorge Arroyo Texas Water Development Board 1700 North Congress Austin, TX 78711-3231

Ray Burdette Region N's Liaison P.O. Box 487 Raymondville, TX 78580

Bill Card, III. Card Intestment Group, Inc. P.O. Box 1671 Harlingen, TX 78551

Roy Cooley Maverick County Irr. District Route 2, Box 4700 Eagle Pass, TX 78852

Laura De La Garza Texas Sea Grant - The TAMU System 312 N. International Blvd. Weslaco, TX 78596

James Elium Olmito Water Supply Corp. P.O. Box 36 Olmito, TX 78575

Rocky Freund Nueces River Authority 6300 Ocean Drive, NRC Suite 3100 Corpus Christi, TX 78412

Ramon Garcia 222 W. University Drive Edinburg, TX 78539 Silvestre Garcia City of Combes P.O. Box 280 Combes, TX 78535

Dario V. Guerra, Jr. D.V. Guerra Ranch 1021 E. Canton Edinburg, TX 78539

Neil Haman TWDB 1828 W. Jefferson Harlingen, TX 78550

Gilberto Hinojosa Cameron County 964 E. Harrison Street Brownsville, TX 78520

Michael Irlbeck U.S. Bureau of Reclamation 5316 Hwy. 290 West, Suite 510 Austin, TX 78735-8931

Kim Jones MSC 213 UT A&M -Kingsville 917 West Avenue B, Rm 376 Kingsville, TX 78363

Terry Lockamy Tex. Cooperative Ext. Serv., 2401 E. Highway 83 Weslaco, TX 78596

Carlos Lopez U.S. Dept of Int. Bureau of Rec. 5316 Hwy. 290 West, Ste 510 Austin, TX 78735-8931

Ray Mathews TWDB 1700 N. Congress, Room 465 Austin, TX 78711-3231

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Written Assurances

- 1. Please be advised that on behalf of the Rio Grande Regional Water Planning Group, the Lower Rio Grande Valley Development Council assures that the proposed planning contained in this application does not duplicate existing projects.
- 2. Please be advised that on behalf of the Rio Grande Regional Water Planning Group, the Lower Rio Grande Valley Development Council assures that the implementation of viable solutions identified through the proposed planning will be diligently pursued and potential sources of funding will be identified for implementation.
- 3. Please be advised that on behalf of the Rio Grande Regional Water Planning Group, the Lower Rio Grande Valley Development Council assures that when the grant is awarded, written evidence that local matching funds are available for the proposed planning shall be provided when the contract is executed.

Kenneth N. Jones, Jr. LRGVDC Executive Director

Date

Expense Budget					
Category	Tot	al Amount			
Salaries and Wages	\$	331,330.00			
Fringe	\$	-			
Travel	\$	-			
Other Expenses	\$	-			
Subcontract Services	\$	115,498.00			
Voting Planning Member Travel	\$	-			
Overhead	\$	3,500.00			
Profit	\$	-			
TOTAL	\$	450,328.00			

Region M Regional Water Planning Group TWDB Research and Planning Fund Application

Task Budget

Priority	Task Description		Total	тw	DB Funding	Lo	ocal Match
1)	Surface water right management evaluation	\$	6.840.00	\$	6.840.00	\$	-
ŕ	a) Acquire and review laters version of Rio Grande WAM	\$	1,140.00	\$	1,140.00	\$	-
		•		^		•	
	b) Outline and describe specific water supply management strategies for evaluations c) Modify existing WAM to reflect simplified water rights representations	\$	6,523.00	\$ ¢	6,523.00	\$	-
	d) Modify existing WAM to incorporate alternative water management supply	φ	2,200.00	φ	2,200.00	φ	-
	management strategies	\$	7,200.00	\$	7,200.00	\$	-
	e) Operate modified WAM to simulate water supply reliabilities and river flows	\$	7,283.00	\$	7,283.00	\$	-
	f) Povice alternative water supply management strategies and rerup WAM simulations	¢	2 5 4 0 0 0	¢	2 540 00	¢	
	a) Describe and summarize results and prepare technical memorandum	ф \$	3,540.00	э \$	3,540.00	Ф \$	_
	h) Discuss results with Region M representatives	\$	3,978.00	\$	3,978.00	\$	-
		\$	41,838.00	\$	41,838.00	\$	-
2)	Classify Irrigation Districts as WIIGs			1			
2)	a) Development of maps showing service areas of Irrigation Districts	\$	10 000 00	\$	10 000 00	\$	_
	b) Quantify and qualify urbanization and its effects	\$	20,000.00	\$	20,000.00	\$	-
	c) Analysis of rexisting conveyance system	\$	5,760.00	\$	5,760.00	\$	-
	d) Revise water supply and demand data	\$	10,260.00	\$	10,260.00	\$	-
	e) Evaluate water savings due to the construction of conveyance system interconnects,	¢	10 100 00	¢	10 100 00	¢	
	f) Analyze effectiveness of completed conservation projects	Ф 2	12,420.00	Ф Ф	12,420.00	Ф 2	-
	g) Evaluate WMSs for individual Irrigation Districts	\$	12.600.00	\$	12.600.00	\$	_
	h) Evaluate impacts of municipal WMSs on Irrigation Districts	\$	7,920.00	\$	7,920.00	\$	-
		\$	90,300.00	\$	90,300.00	\$	-
2)	Analyza Deculta of Completed Demonstration Braisate			1			
3)	a) Discuss/analyze results from the Harlingen Irrigation District on-farm projects	\$	4 680 00	\$	4 680 00	\$	-
	i) Development of an on-farm incentive for implementation of strategies	\$	12,600.00	\$	12,600.00	\$	-
	b) Discuss/analyze results from the Brownsville PUB Seawater RO Pilot Study	\$	10,760.00	\$	10,760.00	\$	-
		\$	28,040.00	\$	28,040.00	\$	-
4)	Expanded groundwater and surface water modeling/analysis						
.,	a) Update with substantial brackish groundwater modeling to include effects of						
	drawdown on surface water supplies	\$	34,000.00	\$	34,000.00	\$	-
	b) Update WAM and GAM to reflect relationships	\$	34,000.00	\$	34,000.00	\$	-
	c) Analyze groundwater conservation districts and prepare recommendations	¢	19,400.00	\$ ¢	19,400.00	\$ ¢	-
		φ	67,400.00	Þ	87,400.00	φ	-
5)	Aquatic Weed Study						
		•	~~ ~ ~ ~ ~ ~			•	
	a) Analyze effectiveness of grass carp on aquatic weed infestations in the Rio Grande	\$	28,240.00	\$	-	\$	28,240.00
		\$	28,240.00	\$	-	\$	28,240.00
c)	Perional Manning and Invictional Overlan Clarification						
6)	a) Development of mans showing service areas of municipalities and water supply						
	corporations, regional supplies	\$	22.520.00	\$	12.520.00	\$	10.000.00
	b) Clarification of jurisdictional overlap of Water Districts/Water Supply Corporations	•	,	•	,	•	-,
	with cities	\$	5,760.00	\$	5,760.00	\$	-
		\$	28,280.00	\$	18,280.00	\$	10,000.00 ²
7)	WMS Implementation Study						
	a) Compliation of WMS for each WUG	\$	-	¢	40.000.00	¢	
	i) visit with each wold regarding their CIP	\$ ¢	42,320.00	ф Ф	42,320.00	¢	-
	ii) Evaluate conestveness of all WOG CIPS	ф Ф	9,000.00 5 400 00	Ф Ф	9,000.00 5 400 00	¢ ¢	-
	h) Apply a regional approach to water conservation	Ф Ф	9,400.00 9,000.00	Ф \$	0,400.00 0 000 00	¢ ¢	
	i) Evaluate incentive programs for agricultural and municipal conservation	φ \$	5 040 00	\$	5 040 00	φ \$	
	c) Develop matrix to evaluate effective strategies	\$	12.600.00	\$	12.600.00	\$	_
	.,	\$	83,360.00	\$	83,360.00	\$	-
-			,	· · ·	,	•	

Region M Regional Water Planning Group TWDB Research and Planning Fund Application

Task Budget

Priority	Task Description	0	Total	т٧	/DB Funding	Lo	cal Match
8)	Administrative and Public Participation						
	a) Admininstrative		\$ 15,770.00	\$	12,270.00	\$	3,500.00
	b) Scope of Work		\$ 12,240.00	\$	12,240.00	\$	-
	c) Public Participation		\$ 34,860.00	\$	34,860.00	\$	-
			\$ 62,870.00	\$	59,370.00	\$	3,500.00
		_					
					TWDB	Lo	cal Cash
		TOTALS:	\$ 450,328.00	\$	408,588.00	\$	41,740.00

Sources of Cash Contribution ¹ \$11,500.00 from the Internation Boundary and Water Commission (IBWC) and \$16,740.00 from the United States Bureau of Reclamation (BOR) ² North Alamo Water Supply Corporation

³ Lower Rio Grande Valley Developmental Council (LRGVDC)

SCOPE OF WORK

1. Evaluation of Alternative Water Supply Management Strategies Regarding the Use and Classification of Existing Water Rights on the Lower and Middle Rio Grande

Description

At issue is whether the current water supply management rules and the associated water allocation procedures are appropriate considering that 50 to 60 years from now a substantial portion of the water supply from Amistad and Falcon Reservoirs will be used for municipal purposes, rather than irrigation. It could be that alternative procedures for managing the overall reservoir system water supply and/or for allocating water to the different types of water rights may be more desirable from the standpoint of providing more reliable and equitable supplies of water from the reservoirs for all users.

It is apparent that by far most of the existing water rights on the Lower and Middle Rio Grande are authorized for irrigation use (85%). Total annual diversions of slightly more than 1.8 million acre-feet are authorized for irrigation use. Historical use quantities indicate that the existing water rights authorize more diversions than are actually being used, and they could be interpreted to suggest that there are more authorized diversions for irrigation than are actually needed. This is not necessarily the case because of the procedure that is used to allocate excess stored water in Amistad and Falcon Reservoirs to the irrigation accounts at the end of each month. Since the allocations are made on a pro rata basis in proportion to the annual authorized diversion amounts for all of the irrigation water rights, having more annual diversion authorized under a particular water right than what actually may be used for irrigation provides for a more reliable water supply year in and year out. This is not to say, however, that occasionally there are irrigation water rights, or portions of irrigation water rights, that are deemed by the owners to not be needed or usable in the future. These are the water rights, of course, that are potentially available for acquisition and use by municipal or other users, following amendment by the State for conversion from irrigation use to municipal or some other beneficial use.

Based on the 2005 Region M Water Plan, total municipal water demands for the entire eightcounty region are projected to increase from about 280,000 acre-feet/year in 2010 to about 626,000 acrefeet/year in 2060. Taking into account existing surplus supplies among municipal users, the projected deficiency in available municipal water supplies by 2060 has been estimated to be approximately 321,000 acre-feet/year. Over this same 2010-2060 period, demands for irrigation water are projected to decrease from about 1,164,000 acre-feet/year down to about 982,000 acre-feet/year, an overall decrease of about 182,000 acre-feet/year.

The proposed studies are intended to investigate how water right conversions from irrigation to municipal uses might be undertaken and what overall water supply management strategies might be considered for implementation in order to more effectively use and enhance the available future supply of water from Amistad and Falcon Reservoirs.

Proposed Scope of Work

It is anticipated that the proposed work will be undertaken through a series of eight tasks, with results from one task contributing to subsequent tasks while still allowing for iterations of analyses among the tasks. Following is a list of the tasks anticipated to be undertaken over the course of the work.

- 1. Acquire and Review Latest Version of Rio Grande WAM (Run 3)
- 2. Outline and Describe Specific Water Management Strategies for Evaluations
- 3. Modify Existing WAM to Reflect Simplified Water Rights Representations
- 4. Modify Existing WAM to Incorporate Alternative Water Supply Management Strategies
- 5. Operate Modified WAM to Simulate Water Supply Reliabilities and River Flows
- 6. Revise Alternative Water Supply Management Strategies and Rerun WAM Simulations

- 7. Summarize Results and Prepare Technical Memorandum
- 8. Discuss Results With Region M Representatives and Water Users

<u>Budget</u> – The proposed budget for this study is \$41,838.00.

2. Classify Individual Irrigation Districts as Water User Groups

Description

In the previous rounds of regional planning, water supply and demand analysis were performed for a multitude of Water User Groups (WUGs) in the region including the classification of irrigation water users as a county-wide group (i.e. Irrigation – Cameron County). Utilizing this classification system creates a difficult set of circumstances in which to accurately evaluate irrigation water users. For one, developing accurate and applicable water management strategies for irrigation water users on a county-wide basis does not take into consideration individual irrigation districts that deliver irrigation water. Also, irrigation districts deliver the majority of raw water for municipal users. The conveyance system tuilized for irrigation water is also utilized for raw water deliveries. Analyzing the conveyance system for each irrigation district will give valuable insight into conveyance efficiencies. On the contrary, the evaluation of irrigation water users on a county-wide level does not provide this level of insight. The current conveyance efficiencies associated with each irrigation district, and their method of water deliveries, varies significantly from district to district, as does the amount of irrigation water allocated to each district. In addition, individual irrigation districts are in various states of urbanization and the irrigation water demands they serve vary significantly. Again, a county-wide evaluation of irrigation water users cannot take into consideration the wide range of supplies and demands.

Once the water supply, demand, and conveyance systems of each irrigation district are evaluated, the potential for water savings due to the construction of conveyance system interconnects, joint water conservation projects, and raw water deliveries will be evaluated. Performing this task will help gain a firm understanding as to the potential for conservation associated with conveyance system improvements, which was previously recommended as a water management strategy in the previous round of regional planning. In turn, evaluating completed conservation projects, which a number of individual irrigation districts have taken part over the past number of years, will add to amount of information available. Taking these factors into consideration will allow the regional water planning group to evaluate water management strategies for individual irrigation districts with the result being a comprehensive understanding of potential water savings associated with conveyance system improvements on an individual basis.

Finally, as described earlier, irrigation districts serve as the main source of raw water for many municipalities in the region. Since the water management strategies for municipalities were evaluated separately from irrigation water management strategies in the previous plan, there was a lack of cohesion between the two. Evaluating the impacts of municipal water management strategies on irrigation districts, and vice-versa, could result in joint water conservation projects thereby increasing the potential for an increase in water conservation.

Proposed Scope of Work

It is anticipated that the proposed work will be undertaken through a series of eight tasks, with results from one task contributing to subsequent tasks while still allowing for iterations of analyses among the tasks. Following is a list of the tasks anticipated to be undertaken over the course of the work.

- 1. Development of maps showing service areas of Irrigation Districts
- 2. Quantify and qualify urbanization and its effects through the use of census data and maps

- 3. Analyze the existing conveyance system to determine delivery mechanisms of each Irrigation District.
- 4. Revise and update water demands based on the changed condition of classifying individual Irrigation Districts as Water User Groups as opposed to the method of classifying irrigation demands on a county-wide basis as was done in the previous plan.
- 5. Evaluate potential water savings due to the construction of conveyance system interconnects, joint water conservation projects, and raw water deliveries.
- 6. Analyze effectiveness of completed conservation projects (these projects are not defined as demonstration projects).
- 7. Evaluate Water Management Strategies for individual Irrigation Districts.
- 8. Evaluate the impacts of municipal WMSs on individual Irrigation Districts.

<u>Budget</u> – The proposed budget for this study is \$90,300.00.

3. Analyze Results of Completed Demonstration Projects

Description

Since the last round of regional planning was complete, a number of demonstration projects have been undertaken. Included in these demonstration projects are two studies that will add substantial information to the regional water plan. First, the Harlingen Irrigation District undertook a comprehensive analyses aimed at evaluating on-farm water conservation. In the past regional plan, on-farm conservation was included as a water management strategy aimed at irrigation water users. Even though substantial amounts of water can be conserved by this method, implementation of on-farm conservation proved to be difficult given a lack of information available regarding implementation costs and potential water conservation amounts. In order to promote implementation, an analysis of the Harlingen Irrigation District project will be performed with the ultimate goal being to develop an on-farm incentive for implementation. In addition to the on-farm study, a seawater reverse osmosis pilot study is being performed by the Public Utility Board of the City of Brownsville. Seawater desalination was also recommended as a water management strategy in the previous round of regional planning. Results of the seawater desalination pilot study will be analyzed and incorporated into the regional water plan to gain a better understanding as to the applicability of seawater desalination as a regional water management strategy.

Proposed Scope of Work

It is anticipated that the proposed work will be undertaken through two tasks, with results from each task being independent. Following is a list of the tasks anticipated to be undertaken over the course of the work.

- Analyze results from the Harlingen Irrigation District on-farm conservation demonstration project

 a. Development of an on-farm incentive for implementation of strategies.
- 2. Analyze results from the Public Utility Board of the City of Brownsville Seawater Reverse Osmosis Pilot Study.

<u>Budget</u> – The proposed budget for this analysis is \$28,040.00.

4. Expanded Groundwater and Surface Water Modeling and Analysis

Description

Brackish groundwater desalination was recommended as a water management strategy in the previous round of regional planning. Due to the current prolonged drought in the region, a number of additional entities are looking at brackish water desalination to supplement their current surface water treatment plants. This potential increase in brackish groundwater wells requires additional analysis into the potential groundwater drawdown of aquifers in the region. In addition, the impact of groundwater drawdown on surface water supplies has not been analyzed. By updating the surface water availability model and the groundwater availability model to reflect relationships between the two, an understanding of surface water drawdown should be achieved. Also, the potential for groundwater drawdown of aquifers in the region warrants the preliminary evaluation of Groundwater Conservation Districts to potentially reduce substantial negative impacts to aquifers and subsequently to surface water supplies.

Proposed Scope of Work

It is anticipated that the proposed work will be undertaken through a series of three tasks, with results from one task contributing to subsequent tasks while still allowing for iterations of analyses among the tasks. Following is a list of the tasks anticipated to be undertaken over the course of the work.

- 1. Update the previous groundwater availability model with a substantial groundwater analysis to include the effects of drawdown on surface water supplies.
- 2. Update WAM and GAM to reflect relationships.
- 3. Analyze groundwater conservation districts and prepare recommendations.

<u>Budget</u> – The proposed budget for this analysis is \$87,400.00.

5. Aquatic Weed Study

Description

Aquatic weed infestations in the Rio Grande have been a significant hindrance to water delivery efficiencies. Over the past years, cooperation between the United States and Mexico has resulted in the formation of an Aquatic Weed Task Force whose sole responsibility is to develop and implement methods to control aquatic weed infestations. An upcoming aquatic weed study will be performed by the Aquatic Weed Task Force in which a number of triploid grass carp will be released at two strategic locations below Falcon Reservoir. Significant infestations of hydrilla have recently been discovered in the release locations. A number of the carp will be outfitted with tracking devices which will allow researchers to determine the movement of the carp in the Rio Grande and its tributaries. In addition, an analysis will be performed that will evaluate the effectiveness of the grass carp in controlling hydrilla in the Rio Grande.

Proposed Scope of Work

It is anticipated that the proposed scope of work will be undertaken through a series of four tasks, with results from one task contributing to subsequent tasks while still allowing for iterations of analyses among the tasks.

- 1. Tag grass carp with tracking devices
- 2. Release carp in the Rio Grande between Falcon Reservoir and the Anzalduas Dam

- 3. Track movements of the carp for 6 to 8 months
- 4. Visually monitor the effectiveness of grass carp in controlling hydrilla

<u>Budget</u> – The proposed budget for this analysis is \$28,240.00

6. Regional Mapping and Jurisdictional Overlap Clarification

Description

There exists in the Region a number of municipalities, water supply corporations, and water districts who supply water to municipal users. In past rounds of regional planning, there have been some discrepancies regarding water demands associated with these entities where overlaps of service boundaries occur. This results in a lack of accuracy when determining existing and projected demands.

Necessary first steps in this priority task include clarifying the service areas of municipalities, water supply corporations, irrigation districts, and other regional suppliers.

An important element of developing service area maps is the clarification of jurisdictional overlap of Water Districts and Water Supply Corporations with cities. This clarification will allow for a more accurate depiction of water supply and demand associated with individual water user groups, specifically in small communities and rural areas where Water Districts and Water Supply Corporations provide their services.

Proposed Scope of Work

It is anticipated that the proposed work will be undertaken through a series of two tasks, with results from the first task contributing to the second task. Following is a list of the tasks anticipated to be undertaken over the course of the work.

- 1. Development of maps showing service areas of municipalities and water supply corporations, irrigation districts, and other regional suppliers
- 2. Clarification of jurisdictional overlap of Water Districts, Water Supply Corporations, and Cities

Budget – The proposed budget for this analysis is \$28,280.00.

7. Water Management Strategy Implementation Study

Description

The Rio Grande Regional Water Planning Group proposes an action plan for moving beyond the essential tasks (now completed) of collecting data and identifying water management strategies toward the goal of implementing techniques to ensure adequate water supplies for all water users in the eight-county region. Even though great strides have been made in the previous rounds of regional planning, specific techniques for analyzing potential projects and the creation of mechanisms to encourage partnerships for financing projects have been non-existent from the regional plan. Thus, the RGRWPG has identified as a priority the task of developing innovative incentives for putting strategies into effect.

Necessary first steps in this priority task include clarifying best opportunities for partnerships by developing maps that show the service areas of municipalities, water supply corporations, irrigation districts, and other regional suppliers. An important element of developing service area maps is the clarification of jurisdictional overlap of Water Districts and Water Supply Corporations with cities. This

clarification will allow for a more accurate depiction of water supply and demand associated with individual water user groups, specifically in small communities and rural areas where Water Districts and Water Supply Corporations provide their services.

Further steps include developing a matrix to evaluate the relative effectiveness of water management strategies. This requires meeting with responsible parties for each WUG on their long-term capitol improvement plans. These discussions, along with analysis of potential water management strategies in terms of water availability and development potential will be incorporated into the "Project Effectiveness Matrix".

The final product of these tasks will be the creation of a workable system of incentives and a region wide capital improvement plan, geared toward the regional realities that will promote partnerships and encourage implementation of identified water management strategies.

Proposed Scope of Work

It is anticipated that the proposed work will be undertaken through a series of three tasks, with results from one task contributing to subsequent tasks while still allowing for iterations of analyses among the tasks. Following is a list of the tasks anticipated to be undertaken over the course of the work.

- 1. Compilation of Water Management Strategies for each Water User Group
 - a. Visit with each WUG regarding their Capital Improvement Plan (CIP)
 - b. Evaluate cohesiveness of all WUG CIPs
 - c. Research and evaluate funding methods
- 2. Apply a regional approach to water conservation
 - d. Evaluate incentive programs for agricultural and municipal conservation
- 3. Develop a matrix to evaluate effective strategies

<u>Budget</u> – The proposed budget for this analysis is \$83,360.00.

8. Administration and Public Participation

Description

This task involves the necessary administrative support to the Rio Grande Regional Water Planning Group in the development of the proposed scope of work and completion of all tasks funded.

Proposed Scope of Work

Three (3) work tasks are identified for the completion of this item:

- 1. Administrative
- 2. Scope of Work
- 3. Public Participation

<u>Budget</u> – The proposed budget for this task is \$62,870.00.

ID	0	Task Name	Duration	Start	Finish	Sen Oct Nov Doo	2007
1	-	Surface water right management evaluation	182 days	Mon 1/1/07	Sun 7/1/07		j Jan j i eu j iviai j Api j iviay j Jun j Jun j Aug j Sep j Oct NOV L
2		a) Acquire and review latest version of Rio Grande WAM	20 days	Mon 1/1/07	Sat 1/20/07		та на
3	1	b) Outline and describe specific water supply management strategies for evaluations	14 days	Sun 1/21/07	Sat 2/3/07		
4	-	c) Modify existing WAM to reflect simplified water rights representations	30 days	Sun 2/4/07	Mon 3/5/07		
5		d) Modify existing WAM to incorporate alternative water management supply management strategies	30 days	Tue 3/6/07	Wed 4/4/07		
6	-	e) Operate modified WAM to simulate water supply reliabilities and river flows	30 days	Thu 4/5/07	Fri 5/4/07		
7	-	f) Revise alternative water supply management strategies and rerun WAM simulations	30 days	Sat 5/5/07	Sun 6/3/07		
8	-	g) Describe and summarize results and prepare technical memorandum	14 days	Mon 6/4/07	Sun 6/17/07		
9	-	h) Discuss results with Region M representatives	14 days	Mon 6/18/07	Sun 7/1/07		
10	-						
11	-						
12	-	Classify Irrigation Districts as WUGs	510 days	Mon 1/1/07	Sat 5/24/08		
13		a) Development of maps showing service areas of Irrigation Districts	180 days	Mon 1/1/07	Fri 6/29/07		*
14		b) Quantify and qualify urbanization and its effects	180 days	Wed 8/29/07	Sun 2/24/08		
15	-	c) Analysis of rexisting conveyance system	90 days	Wed 8/29/07	Mon 11/26/07		• • • • • • • • • • • • • • • • • • •
16	-	d) Revise water supply and demand data	90 days	Mon 2/25/08	Sat 5/24/08		
17	-	e) Evaluate water savings due to the construction of conveyance system interconnects, joint water conservation	30 days	Thu 12/27/07	Fri 1/25/08		
		projects, and raw water deliveries					
18		t) Analyze effectiveness of completed conservation projects	30 days	Mon 1/1/07	Tue 1/30/07		
19		g) Evaluate WMSs for individual Irrigation Districts	60 days	Sat 1/26/08	Tue 3/25/08		↓ ▼
20		h) Evaluate impacts of municipal WMSs on Irrigation Districts	60 days	Tue 11/27/07	Fri 1/25/08		
21							
22						_	
23		Analyze Results of Completed Demonstration Projects	455 days	Mon 1/1/07	Sun 3/30/08		
24		a) Discuss/analyze results from the Harlingen Irrigation District on-farm projects	90 days	Mon 1/1/07	Sat 3/31/07		
25		i) Development of an on-farm incentive for implementation of strategies	90 days	Mon 1/1/07	Sat 3/31/07		
26		b) Discuss/analyze results from the Brownsville PUB Seawater RO Pilot Study	90 days	Tue 1/1/08	Sun 3/30/08		
27							
28		Expanded groundwater and surface water modeling/analysis	300 days	Thu 2/1/07	Tue 11/27/07		
29		 a) Update with substantial brackish groundwater modeling to include effects of drawdown on surface water supplies 	120 days	Thu 2/1/07	Thu 5/31/07		
30	-	b) Update WAM and GAM to reflect relationships	120 days	Fri 6/1/07	Fri 9/28/07		
31		c) Analyze groundwater conservation districts and prepare recommendations	60 days	Sat 9/29/07	Tue 11/27/07		
32	-						
33	-						
34	-	Aquatic Weed Study	180 days	Mon 1/1/07	Fri 6/29/07		
35		a) Analyze effectiveness of grass carp on aquatic weed infestations in the Rio Grande	180 days	Mon 1/1/07	Fri 6/29/07		
36							
37	-						
38		Regional Mapping and Jurisdictional Overlap Clarification	270 days	Mon 1/1/07	Thu 9/27/07		
39	T	a) Development of maps showing service areas of municipalities and water supply corporations, regional supplies	180 days	Mon 1/1/07	Fri 6/29/07		
40		b) Clarification of juriedictional overlap of Water Districte Mater Supply Corporations with cities	90 dave	Sat 6/30/07	Thu 9/27/07		
40			50 uays	Sat 0/30/07	1110 3/27/07		
41							
43		WMS Implementation Study	540 dave	Mon 1/1/07	Mon 6/23/08		
40		a) Compilation of WMS for each WIIG	420 days	Mon 1/1/07	Sup 2/24/09		
44		i) Visit with each WI IG regarding their CIP	-20 days	Mon 1/1/07	Fri 6/20/07		
40	198 .	ii) Evaluate cohesiveness of all WHG CIPs	120 days	Sat 6/30/07	Sat 10/27/07		
40	_	ii) Euroling methods	120 days	Sun 10/28/07	Sun 2/24/09		
48		h) Apply a regional approach to water conservation	60 days	Mon 2/25/08	Thu 4/24/08		
40		i) Evaluate incentive programs for acticultural and municipal conservation	60 days	Mon 2/25/09	Thu 4/24/09		
-+9			60 days	Fri 4/25/00	Mon 6/22/09		
51	_	o boronop mainte la ovaluale onocire shalegies	ou uays	111 4/20/00	1011 0/23/00		
52	_	Administrative and Public Participation	730 dave	Mon 1/1/07	Tue 12/30/00	-	
52		a) Administrative	730 dove	Mon 1/1/07	Tue 12/30/08		
55		a) Automotive	730 days	Mon 1/1/07	Tue 12/30/08		
54		c) Public Participation	730 days	Mon 1/1/07	Tue 12/30/00		
55	H .		1 JU UdyS	WOIT 1/1/07	100 12/30/00		
Project	t: schedule	Task Progress Summ	ary		External Ta	sks	Deadline 4
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Joseph W. Norris, P.E. Principal, NRS Consulting Engineers

lting Engineers	Project Responsibility: PRINCIPAL IN CHARGE PROJECT MANAGER/ENGINEER WASTEWATER COLLECTION SYSTEM CIVIL/MECHANICAL			
Fields of Special Competence	Water Supply, Treatment and Distribution Systems - Planning, Design and Construction Membrane Treatment System Planning and Design			
	Wastewater Treatment and Collection Systems Water Conservation and Reuse			
Education	BS Civil Engineering, Texas A&M University 1977 MS Civil/Environmental Engineering, University of Texas at Arlington, 1981			
Registration	Professional Civil Engineer - Texas 1981			
Years Experience	Formed NRS Consulting Engineers in 1988 as an outgrowth of Kindle, Stone & Associates. Over 20 years in the water and wastewater industry.			
Professional Affiliations	American Membrane Technologies Association Founding Director South Central Desalting Assoc. National Society of Professional Engineers Texas Society of Professional Engineers Consulting Engineers Council			
	Former Director			

Mr. Norris has over 26 years experience in the water and wastewater industry in the planning, design and project management of municipal and industrial facilities. Mr. Norris initial professional experience was with the City of Dallas for 6 years and Assistant Manager of the 150 MGD Central Wastewater Treatment Plant in charge of \$20 Million improvement project. The remaining 20 years have been as principal of Kindle, Stone and Associates and currently Principal and President of the NRS Consulting Engineers.

Since starting NRS Consulting Engineers in 1988, the firm has grown from 2 offices to 7 offices in Texas, Oklahoma and Arkansas. Mr. Norris has been responsible for the implementation of many important water supply projects and has shown an innovative approach to water planning and implementation. Since 1985, Mr. Norris has been involved in research and planning for advanced treatment methods of potable and reclaimed water. He was the Project Engineer for the largest industrial reuse facility in the country that utilized wastewater converted to pure water for the Harlingen Fruit of the Loom operations. This \$11 million facility was completed in 1991.

In 1995 studies commissioned by the Texas Water Development Board were performed by Mr. Norris to look at the feasibility of using brackish groundwater and sea water to provide additional treated water supply to the south Texas region. That study spurred the first brackish groundwater treatment facility in South Texas for Rancho Viejo Texas in 1999. Now complete is the Southmost Regional Water Authority 7.5 MGD Desalination facility serving 5 entities. This \$22 million facility will provide over 40% of the treated water needs and supply to these entities in the region. Mr. Norris is the manager of the project and other similar projects underway. He also serves as the Regional Water Planning Groups engineer for planning water supply needs for the next 50 years along the Rio Grande.

Now complete, is Harlingen's Wastewater Recovery and Reuse Facility, which has the capacity to produce 2 million gallons per day of bottle quality water from wastewater effluent. This water is utilized in Fruit of the Loom's bleaching and dying operation in Harlingen. Mr. Norris was the Project Manager/Engineer for this \$9.2 million project.

Internationally, Mr. Norris has provided engineering for several projects in Mexico and in Europe. Included are wastewater treatment projects for Fruit of the Loom in Ireland and for General Motors, AT&T and Magnetek in Mexico. Water treatment facilities have been completed for the City of Matamoros. Wastewater reuse facilities are being studied for three General Motors facilities in Mexico.

Mr. Norris is active in civic and professional societies and in the economic development of the area. . Relevant projects that Mr. Norris was Project Manager/Engineer on are as follows:

- Valley Municipal Utility District No. 2 Water Distribution Analysis
- Identification of Brackish Groundwater Sources for Future Potable Use and Their Estimated Desalinization Costs for the Texas Water Development Board
- Southmost Regional Water Authority Regional Brackish Treatment Study
- Reuse Pilot study and report for Ultra filtration and Reverse Osmosis of effluent for Brownsville
- Implementation of Reverse Osmosis Pilot Unit for PUB, Brownsville, Texas
- Implementation of Reverse Osmosis Pilot Unit for South Padre Island, Texas
- Implementation of Reverse Osmosis Pilot Unit for VMUD No. 2 in Rancho Viejo, Texas.
- Reverse Osmosis Facility for City of Laredo
- Design and construction management of Reverse Osmosis Water Plant for VMUD No. 2 in Rancho Viejo, Texas.
- Planning report for the City of Mission regarding brackish groundwater treatment.
- Preliminary design of reverse osmosis plant for power plant waste stream for SEI power plant.
- Operator training program for Reverse Osmosis Water Plant for VMUD No. 2 in Rancho Viejo
- Lower Rio Grande Valley Development Council Comprehensive Master Plan for Rio Grande Valley Irrigation Districts
- Valley Municipal Utilities District No. 2 Capital Improvements Program
- Laguna Madre Water District Capital Improvements Plan
- City of Harlingen Comprehensive Plan Harlingen Vision 2020
- Cameron County Irrigation District No. 2 Replacement River Pumping Plant
- Cameron County Irrigation District No. 2 Canal Rehabilitation
- City of Laredo Water and Wastewater Capital Improvements Plan
- Rio Grande Regional Water Planning Group, Region M Regional Water Planning

- City of Harlingen Waterworks System Water and Wastewater Impact Fee Study
- Planning report for the City of Mission regarding brackish groundwater treatment.
- Preliminary design of reverse osmosis plant for SEI Power power plant waste stream
- Design of water treatment facilities for Cypress Springs
- Design of water treatment facilities for Camden, AR
- Design of Laboratory facilities for Brownsville Public Utilities Board
- Design of Laguna Madre Water District Water Plant Improvements
- Assessment of the City of Matamoros, Mexico Water Plants relative to the SDWA.
- Componentes de Matamoros Water Reuse Study (General Motors)
- Delnosa (Reynosa) Water Reuse Study (Delco Electronics)
- Fruit of the Loom Wastewater Treatment Plant Ireland
- Laredo Water Reuse Study
- Assessment of Brownsville's Water Treatment Plants relative to the SDWA
- Analysis of Chemical Processes at the Wastewater Recovery and Reuse Facility for the City of Harlingen Waterworks System.
- South Padre Island Sewerline Replacement
- Port Isabel Sewer Collection System Improvements
- Laguna Vista Wastewater Treatment Plant Design and Construction Management
- Valley Municipal Utility District No. 2 Wastewater Treatment Plant Improvements
- Harlingen Waterworks System Wastewater Treatment Plant No. 1 Improvements
- Harlingen Waterworks System Wastewater Treatment Plant No. 2 Odor Control
- Harlingen Waterworks System Wastewater Treatment Plant No. 3 Improvement

TRC/R. J. BRANDES COMPANY

Consulting in Water Resources

Professional Resume

ROBERT J. BRANDES

PERSONAL DATA	Birthplace: Home Address:	East Bernard, Texas 9200 Cedar Forest Drive					
	Home Telephone	512 / 258-2368					
	Home Telephone.	5127 250 2500					
EDUCATION	Pre-Engineering Curriculum, Southwestern University, 1962-1964						
	B. S., Civil Engineering, The University of Texas at Austin, 196						
	M. S., Civil Engineering, The Univ	versity of Texas at Austin, 1968					
	Ph.D., Water Resources, The University of Texas at Austin, 1972						

HONORS Tau Beta Pi, Chi Epsilon, Sigma Xi

REGISTRATION Professional Engineer, State of Texas, No. 39120

Dr. Brandes has been engaged in consulting engineering practice in Texas for over thirty years, **EXPERIENCE** specializing in water resources and related environmental projects. He has provided consulting assistance to numerous private and public entities, including local, regional and state water agencies and authorities. He has directed and conducted numerous studies and investigations dealing with surface and ground water hydrology and hydraulics; water resources planning and development; water rights permitting and related issues; municipal, industrial and agricultural water supply; rural and urban flooding, drainage and stormwater management; nonpoint source water pollution control and water quality; irrigation system analyses; project site development engineering; and environmental impact assessments. His experience encompasses a wide variety of problems involving rivers and streams, lakes and reservoirs, ground water aquifers, landfills, wetlands, stormwater, and bays and estuaries, and he is especially familiar with the development and application of computerized simulation techniques for analyzing water-related phenomena in these systems. Dr. Brandes has prepared and presented testimony and served as an expert witness in various judicial proceedings in state and federal courts and in administrative and regulatory hearings conducted by water and various other natural resources agencies in Texas, as well as the Texas Legislature.

PUBLICATIONS Dr. Brandes has authored or co-authored numerous technical documents and project reports, and he has presented many technical papers and lectures pertaining to water resources and water rights at professional society meetings, water conferences and short courses.

COMMITTEES Dr. Brandes serves on several committees appointed by state agencies and professional associations dealing with water rights, wastewater reuse, and environmental flow issues. He was chairman of the Science Advisory Committee for the Study Commission on Water for Environmental Flows, a commission of appointed Texas Legislators and representatives of water-interest groups charged by the 78th Legislature with addressing the state's needs for environmental flows in riverine and estuarine systems, and he currently chairs the Science Advisory Committee for the Governor-appointed Environmental Flows Advisory Committee.

PROFESSIONAL
AFFILIATIONSAmerican Society of Civil Engineers
Texas Water Conservation Association
American Water Resources AssociationWater Environment Federation
Texas Society of Professional Engineers
National Society of Professional Engineers

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PROFESSIONAL HISTORY

- 2005 to Present Principal; TRC/R. J. Brandes Company, Consulting in Water Resources; Austin, Texas.
- 1984 to 2005 Principal and Owner; R. J. Brandes Company, Consulting in Water Resources; Austin, Texas.
- 1992 to 2005 Principal and Director; Terra Dynamics, Inc.; Austin, Texas.
- 1994 to Present Principal and Director; Crespo Consulting Services, Inc.; Austin, Texas.

Through TRC/RJBCO, Dr. Brandes operates as an engineering consultant specializing in water resources and related fields. He provides consulting assistance on projects involving both surface and ground water problems dealing with hydrology, hydraulics, drainage, flooding, water rights, resource planning and development, water quality, nonpoint source pollution control, and stormwater management. Representative projects include:

- Directed and performed surface water availability studies for the LCRA/SAWS Water Supply Project, including development and evaluation of alternative project configurations and components, utilizing various water availability models, and coordinating work with client and other consulting team members on the overall project team.
- Directed and performed reservoir firm yield studies and conceptual dam and spillway design studies for the proposed Lake Ralph Hall on the North Sulphur River in Fannin County, Texas, including preparation of supporting documents for the water rights permit application and coordination of permitting activities with the TCEQ.
- Development of naturalized streamflows for the Rio Grande Basin, including Mexico, and application of Texas A&M Water Rights Analysis Package model to develop the WAM and simulate water availability for every existing water right in the basin under different flow conditions, assumed water rights cancellation scenarios, and various levels of wastewater reuse.
- Directed and performed water availability studies as part of a multidisciplinary team of consultants for the SAWS/SARA/GBRA Lower Guadalupe Water Supply Study, including development and evaluation of alternative project configurations and components and coordinating work with client and other consulting team members on the overall project team.
- Inventoried surface and ground water supply sources and facilities on the 21,000-acre Indio-Faith Ranch on the Rio Grande in Maverick and Dimmitt counties in South Texas and developed recommendations and plan for joint use of the available water supplies and joint operation of water facilities by two entities owning different parts of the ranch.
- Development of naturalized streamflows for the Sulphur, Sabine and Colorado River Basins and for the Brazos-Colorado and Nueces-Rio Grande Coastal Basins for the Texas Commission on Environmental Quality as part of Senate Bill 1 water availability modeling program and application of Texas A&M Water Rights Analysis Package model to develop the WAM and simulate water availability for every existing water right in these basins under different flow conditions, assumed water rights cancellation scenarios, and various levels of wastewater reuse.
- Examination of flooding conditions in Driscoll, Texas, evaluation of potential causes of flooding and expert witness support and testimony for Union Pacific Railroad in law suits in Nueces County, Texas.

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- Investigation of flooding in Big Fossil Creek watershed caused by upstream development in city of Saganaw and expert witness support and testimony for plaintiffs in Tarrant County, Texas law suit.
- Analysis of domestic and agricultural water demands for 112,000-acre Comanche Ranch in Maverick County, Texas, development of water supply plans and facility designs for providing Rio Grande water to meet ranch water demands, and assisting with implementation of various water supply strategies.
- Investigation of the water supply feasibility of a proposed reservoir on Rabbit Creek in the Sabine River Basin for the City of Overton and other water purveyors, including estimation of watershed runoff using a Soil Conservation Service based computer model, determination of the reservoir's firm yield with the SIMYLD reservoir system operations model, and hydraulic design and sizing of principal and emergency flood spillways using the HEC-1 model.
- Water supply systems operations and water rights/environmental permitting for the proposed Retamal, Anzalduas and Brownsville Channel Dams Water Conservation Project on the Lower Rio Grande, including computer simulations of the hydrologic behavior and performance of the proposed projects considering daily historical sequences of streamflows, municipal and industrial diversions, irrigation usage and firm annual yield; simulations of Amistad and Falcon Reservoirs operations using the SIMYLD-II program with and without the proposed channel dams in operation; preparation of the hydrologic and salinity impact portions of an environmental assessment for the project; and meetings and negotiations with regulatory agencies and other entities regarding permitting of the projects.
- Hydrology, water quality and water supply system operations studies for the Texas Attorney General's Office to support potential litigation regarding the use and ownership of water from the Rio Grande Project in Texas and New Mexico, including the development of a quantity and quality routing models of Project operations.
- Analysis of potential downstream flooding caused by warehouse and drainage projects implemented by City of Fredericksburg, representation of City in law suit, and development of mitigation measures used in settlement proceeding.
- Investigation of existing and projected surface water supplies and demands for municipal, industrial and irrigation users, including reservoir simulations and yield analyses under alternative reservoir operating plans and storage allocations and evaluation of Mexican Rio Grande water deficit under the 1944 Treaty, as part of the eight-county Rio Grande Regional Water Planning Study (Region M) undertaken pursuant to the requirements of Senate Bill 1 of the 75th Texas Legislature.
- Evaluation of the impacts of upstream artificial recharge projects on the yield and operations of City of Corpus Christi's reservoirs in the Nueces River Basin, including examination of bay and estuary inflows and system operation with other sources of water supply.
- Hydrologic and water rights permitting support for amendment of Tarrant Regional Water District's permits for diversion of upper Trinity Basin return flows from the Trinity River into Richland-Chambers Reservoir and Cedar Creek Reservoir in order to develop additional firm yield for supplying water to TRWD customers.
- Analysis of future water supply availability for the Lower Neches Valley Authority considering existing municipal, industrial and irrigation water rights in the Neches River Basin and Federal hydropower water requirements at Sam Rayburn Reservoir, including modification and application of the TNRCC water availability model as developed pursuant to Senate Bill 1 for evaluating existing water supply reliability and projected reservoir yields.

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- Evaluation and analyses of various water rights and water resources management models as part of technical advisory team for the Texas Natural Resource Conservation Commission to select a general modeling approach pursuant to the requirements for water rights and water availability modeling of Senate Bill 1 of the 75th Texas Legislature.
- Analysis of the feasibility (yield and cost) of constructing and operating off-channel reservoir projects for developing new municipal water supplies at various locations throughout the San Antonio and Guadalupe River Basins as part of the South Central Texas Regional Water Planning Study (Region L) undertaken pursuant to Senate Bill 1 of the 75th Texas Legislature.
- Analysis and review of reservoir floodgate operations of Richland-Chambers Reservoir and possible historical downstream flooding impacts along the Trinity River for the Tarrant County Water Control and Improvement District No. 1 and presentation of expert witness testimony for defendant in District Court in Freestone County, Texas.
- Analysis of causes of flooding of residential area in Brushy Creek watershed and presentation of expert testimony for plaintiffs in Williamson County District Court.
- Investigation of causes of flooding of Republic Bank Towers in Dallas, Texas during severe rainfall event for plaintiffs in law suit in Dallas County District Court, including definition of contributing drainage areas, analysis of street inflows to lower level parking areas, and presentation of expert deposition testimony.
- Development of reservoir systems operations model for International Amistad and Falcon Reservoirs on the Rio Grande, including incorporation of international and flood operating procedures of the International Boundary and Water Commission and water accounting procedures of the Texas Natural Resource Conservation Commission, and application of the model for yield analyses under critical drought conditions and drought management strategies.
- Hydrology, hydraulics, drainage and flood control studies and investigations for the City of Fredericksburg as part of a TWDB-sponsored regional flood prevention plan for the City and surrounding area, including drafting of stormwater detention and other drainage related ordinances, preparation of a drainage criteria manual, and design of drainage facilities.
- Hydrologic and water rights investigations for the Dallas County Park Cities Municipal Utility District to evaluate the ability of Lake Grapevine in the upper Trinity River Basin to provide a firm water supply under various operating rules and demand scenarios involving other existing water rights held by the cities of Dallas and Grapevine, including extensive modification of the SIMYLD-II model to incorporate multi-pool, multi-user water supply and demand accounting.
- Water rights, hydrology/hydraulics and erosion studies for a sand and gravel mining operation on the Pedernales River in Gillespie County, Texas, including assistance with acquisition of water rights permits from the Texas Natural Resource Conservation Commission and federal permits from the U. S. Army Corps of Engineers.
- Hydrology, hydraulics and erosion control studies for the City of Austin to support the development of a Master Erosion Plan for Little Walnut Creek, including identification of critical erosion areas, development of alternative structural and nonstructural plans for erosion control, and preparation of engineering designs and construction documents for specific erosion control measures at selected sites.
- Analysis of surface water issues related to a Medina Lake water rights amendment for the Bexar-Medina-Atascosa Counties Water Control and Improvement District, including analysis and

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determination of release requirements for instream uses below the lake, review and evaluation of reservoir yield and operation studies, and examination of reservoir water quality impacts under the proposed amendment.

- Stream flooding and erosion analyses using HEC-2 backwater program and sediment transport methods for the City of Austin on lower Walnut Creek to evaluate the potential erosion impacts of the City's treated wastewater effluent on an adjacent property owner and presentation of expert witness testimony for defendant in Travis County District Court.
- Investigations of historical flooding conditions, HEC-2 flood backwater modeling along the Trinity River, and reservoir flood operation studies of Lake Livingston for the Trinity River Authority to provide technical support and expert witness testimony in several flood-related law suits in counties upstream and downstream of Lake Livingston.
- Evaluation of alternative scenarios for maintaining springflow conditions required for preservation of endangered species at Comal and San Marcos Springs, analysis of stream channel and springrun hydraulics at Comal Springs, and presentation of expert witness testimony in Federal District Court in Midland, Texas.
- Hydrologic and hydraulic investigations involving floodplain reclamation, hydraulic design of flood control facilities, stormwater runoff simulations (HEC-1), and backwater calculations (HEC-2) for a 2,000-acre residential and commercial development on the West Fork of the Trinity River in Tarrant County, Texas, and preparation of technical documents and materials to support acquisition of Flood Insurance Map revisions from the Federal Emergency Management Agency and 404 Permits from the U. S. Army Corps of Engineers.
- Evaluation of the firm annual yield of a streamflow diversion and off-channel storage project on the Brazos River for the City of Robinson in McLennan County, Texas, under storage and minimum streamflow limitations of an existing water rights permit, including application of a daily reservoir operations computer simulation model for different project phases, reservoir configurations and river flow bypass conditions.
- Regional wastewater planning studies for the Wimberley community in Hays County, Texas, including identification of existing water quality and wastewater problem areas, projections of future population and wastewater loadings, investigation of wastewater treatment and disposal alternatives, estimation of alternative costs, and formulation of institutional and financial options for plan implementation.
- Engineering studies involving stormwater management and drainage, water quality, and leachate generation, collection and disposal for municipal solid waste landfills near Austin, Waco and McKinney and preparation of permit documents as required by the Texas Natural Resource Conservation Commission.
- Engineering studies of stormwater management facilities for controlling contaminated and uncontaminated runoff from a proposed radioactive waste product disposal landfill project in Kinney County, Texas, including hydrologic analyses of retention ponds and runoff storage tanks and hydraulic analyses of drainage control structures.
- Hydrology and hydraulic studies of the potential impacts of sand and gravel dredging operations proposed by Sand Supply, Inc. on or near the Brazos River in Fort Bend County, Texas, and the Colorado River in Fayette County, Texas, including consulting assistance with acquisition of permits from the Texas Parks and Wildlife Department, the Texas Natural Resource Conservation Commission and the U. S. Army Corps of Engineers.

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- Stormwater management, monitoring and control studies for Cominco Fertilizers USA near Borger, Texas, in support of an application for an NPDES General Permit for Industrial Stormwater Discharges from the U. S. Environmental Protection Agency and the development of a Pollution Prevention Plan pursuant to the permit requirements.
- Investigations of hydrologic and environmental aspects of various potential artificial recharge projects along Onion Creek on or immediately upstream of the recharge zone of the Barton Springs segment of the Edwards Aquifer in Travis and Hays Counties for the Barton Springs-Edwards Aquifer Conservation District, including field studies and project siting, preliminary project design, simulation of daily reservoir stage and storage and the increased recharge to the aquifer, and consideration of water rights impacts.
- Hydrologic and hydraulic studies of runoff control and wastewater retention facilities for confined animal feeding operations (feedlots and dairies) and simulation of combined runoff storage and irrigation operations for effective disposal of contaminated waters under state and federal laws and rules, including analyses for facilities in Erath and Maverick Counties, Texas.
- Water supply development studies for Dow Chemical Company in Brazoria County, Texas, including analysis of DOW's historical and projected water demands and supplies, modification and application of the SIMYLD-II reservoir system operations program for yield evaluations of DOW's existing and proposed water supply system, and investigation of reservoir storage and river pumping requirements to meet specific levels of water demands considering river salinity effects.
- Various studies and investigations of proposed municipal and industrial solid waste landfill sites and operations in Bexar, Guadalupe, Chambers, Bastrop, Hill, Collin, Denton, Dallas, Ellis, Travis, Rockwall, Palo Pinto, and Wise Counties, Texas, including analyses of surface water hydrology, drainage and flood control facilities, levee designs, stormwater management systems, wetlands and water quality impacts, and surface and ground water interactions.
- Technical assistance and support involving river basin hydrology, water rights, water supply development and water availability in the Brazos River Basin for Dow Chemical Company in a wholesale water rate case before the Texas Water Commission.
- Urban stormwater runoff and flood modeling using the Soil Conservation Service TR-20 program and related analyses for the City of Austin to support the development and formulation of a Watershed Master Plan for Little Walnut Creek, including projection of flood flows under fully developed watershed conditions.
- Water quality impact analyses and nonpoint source pollution studies for the Brownsville Public Utilities Board pertaining to a proposed raw water pipeline diversion from a series of existing storage lakes and resacas, including field data collection and water quality sampling, runoff and pollutant transport modeling for a 50-year historical period, and projections of water quality conditions with and without the project.
- Technical assistance, engineering support and expert witness testimony for the United Irrigation District in Hidalgo County, Texas, with regard to a wholesale water rate case decided before the Texas Water Commission, including studies of irrigation water demands, historical Rio Grande diversions, domestic and municipal water usage, water delivery system losses, water rights and water supply commitments, and canal system rehabilitation requirements.
- Planning and design of drainage and flood control facilities for the 300-acre Southridge Lakes residential and commercial development in northeast Tarrant County, Texas, including application of the HEC-1, HEC-2 and THYSYS programs for the hydraulic analysis and design of two major storm drain systems, nine wet ponds for stormwater runoff control, and two dry detention ponds.

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- Development and application of a dynamic floodwater routing model (POLROT) to analyze complex hydraulics associated with multiple bridges and culverts and numerous interconnected resacas and drainage ditches throughout the Brownsville metroplex as part of a comprehensive master drainage planning study for the City of Brownsville, Texas.
- 1975 to 1984 Associate and Vice President; Camp Dresser & McKee Inc.; Austin, Texas.
- 1971 to 1980 Associate, Senior and Principal Engineers and Vice President; Water Resources Engineers, a subsidiary company of Camp Dresser & McKee Inc.; Austin, Texas.

As an employee of WRE and later CDM, Dr. Brandes was involved in the technical direction of water resources projects and programs, and he conducted numerous engineering studies and investigations dealing with water and related environmental problems. As part of his duties, Dr. Brandes also served as manager of CDM's Austin, Texas, office and was responsible for administrative, financial and business development operations. Projects included:

- Developed and applied two-dimensional tidal hydrodynamics and salinity transport models for Sabine Lake, Matagorda, San Antonio, Aransas-Copano, and Corpus Christi bays and estuaries as part of the Texas Water Development Board's studies of freshwater inflow requirements for maintenance of marine aquatic habitat and productivity.
- Served as officer-in-charge for an investigation of a groundwater mound beneath Texas Tech University and the City of Lubbock, Texas, including computer modeling of the mound's hydraulic behavior, the development of remedial measures to reduce the mound, water quality analyses, and the formulation of a comprehensive water management program for the University.
- 1970 to 1971 Hydraulic Consultant; F. Barry Haskett Investments and Aquarius, Inc.; New York, NY and Zurich, Switzerland.

Dr. Brandes worked as a full-time consultant investigating the theory and application of the <u>Fiscalin</u> hydraulic mixing process. He reviewed previous applications of the process in Switzerland and designed and tested several units for application to municipal wastewater treatment and various industrial problems in the United States.

1968 to 1971 Associate; Frank D. Masch & Associates; Austin, Texas.

As a part-time consultant, Dr. Brandes worked on several engineering projects including the analysis of hurricane surge in Corpus Christi Bay and associated Padre Island seawall designs; the development of tidal hydrodynamics and salinity models for several bay systems along the Texas coast; and the analysis of the effects of petroleum production operations on the overland flow regime of Big Cypress Swamp in southwestern Florida.

1967 to 1970 Research Engineer/Scientist; The University of Texas at Austin, Department of Civil Engineering; Austin, Texas.

During his graduate studies, Dr. Brandes provided technical staff support for various research projects including the analysis and control of super critical flow conditions in steep-sloped culverts for the Texas State Department of Highways and Public Transportation and the development of tidal hydrodynamics and constituent transport computer models for large shallow bays for the U.S. Office of Water Resources Research.

R. J. BRANDES COMPANY Consulting in Water Resources

Professional Resume

KIRK KENNEDY

E-mail: kkennedy@rjbco.com

PERSONAL DATA

Birthplace:Fort Hood, TexasHome Address:1443 CR 204Burnet, Texas 78611Home Telephone:512 / 756-7173

EDUCATION B.S. Geology, Tarleton State University, Stephenville, Texas, 1984.

REGISTRATION Professional Geoscientist, State of Texas, No. 3130

EXPERIENCE Mr. Kennedy has been involved in Texas surface water right analysis for 17 years. His work has been in the fields of water rights modeling, interstate compacts, water rights permit analysis, and drought water management/allocation. Mr. Kennedy has a broad background in Texas water resources, particularly with respect to the TCEQ's regulatory activities, and those of its predecessor agencies. This experience includes the construction of the pre-SB1 water availability models, as well as the SB1 WAM models. Mr. Kennedy has used the TCEQ's WAM models and numerous other computer programs for water rights application review, streamflow simulations, interstate compact water accounting, drought monitoring, and water allocation modeling. In addition, Mr. Kennedy was the team leader for the Surface Water Availability Team at the TNRCC and trained numerous other hydrologists in the concept of prior appropriation and its affect on reservoir operations, streamflow studies, environmental flows, and water rights permitting criteria.

PROFESSIONAL HISTORY

2000 to Present Senior Scientist; R. J. Brandes Company, Consulting in Water Resources; Austin, Texas.

1989 to 2000

Senior Hydrologist Texas Natural Resource Conservation Commission.; Austin, Texas.

- Used RIVERWARE to develop an operations model for Tarrant Regional Water Districts' Reservoir System in the Trinity River Basin. Implemented logic in Riverware to enable the simulation of the District's local reservoirs and demands with the capability of supplementing these reservoirs via pipeline connected with the District's East Texas Reservoir System. This task involved an in-depth understanding of the Districts Reservoir Operation Rules, pipeline capacities and capabilities, projected demands, and existing water right permit considerations.
- Used the TCEQ's Sulphur Water Availability Model to determine the Firm Annual Yield of Lake Ralph Hall in the Sulphur River Basin for different dam alignments, conservation storage capacities, and normal maximum pool levels and evaluated the system yield of the reservoir using water supplies from other existing water rights and reservoirs in the region, including the subordination of senior water rights.
- Used the TCEQ's Sulphur Basin WAM to develop on operating plan for the water right owners of Chapman Reservoir to enable each owner the ability to overdraft the reservoir without jeopardizing the other owner's share of the Firm Yield Supply.

Professional Resume KIRK KENNEDY Page 2 of 3

- Used the Colorado WAM model to represent the LSWP SAWS project. Calculated instream flow requirements for the proposed new diversion point using the Lyons Method and the Consensus Planning Criteria and represented both techniques in WAM. Developed Daily Spreadsheet Model that used WAM output as input to better understand the Project's operations/impacts on a daily timestep. Manipulated WAM Operating Rule features to determine sensitively of system yield by changing the release requirements between Lakes Buchanan and Travis.
- Developed naturalized flows for the TCEQ's Rio Grande Basin Water Availability Model, constructed the WRAP data input code for the Water Availability Model of the Rio Grande Basin that simulates the TCEQ's Amistad-Falcon reservoir accounting rules for municipal/industrial and Class A and Class B irrigation water rights in the middle and lower Rio Grande Basins, including representation of the hydrology within WAM for the United States and Mexico pursuant to the provisions of the 1944 Treaty, and operated the WAM to compute regulated and unappropriated flows at numerous locations in both Texas and Mexico.
- Developed the WRAP data input code for the Water Availability Model of the Colorado River Basin that simulates the components of the LCRA Water Management Plan and the operation of O.H Ivie Reservoir, including the use of the latest WRAP simulation features that enable the WAM to properly represent the interruptible triggers for the senior downstream irrigator rights, to simulate critical and target criteria for instream environmental flows and bay and estuary freshwater inflows, and to account for the backup of the City of Austin's water rights from LCRA system storage.
- Modified and applied the TCEQ's Water Availability Models for the Neches, Guadalupe-San Antonio, Brazos, Sabine, Cypress, and Lavaca River Basins to determine the reliability and yield of specific water rights in each of these basins based on varying assumptions regarding reuse, cancellation, environmental flow considerations, diversion location changes, and new water right permits.
- Modified and applied the Water Availability Model for the Nueces River Basin to determine the effect of additional upstream recharge structures on the firm annual yield of the City of Corpus's Choke Canyon Reservoir and Lake Corpus Christi.
- Modified and applied the Water Availability Model for the Brazos River Basin to evaluate the availability water supply for a large senior water right located within the lower segment of the Brazos River and assessed its diversion reliability at its existing location and at a proposed additional diversion point approximately 100 miles upstream.
- Analyzed the Rio Grande Project operations in terms of historical water deliveries to Texas and to New Mexico, examined historical water quality conditions throughout the Project reach of the river, and evaluated proposed changes in the Project operating plan with regard to releases from system reservoirs and the associated effects on the quality of water delivered to both states.
- Used numerous surface water simulation programs including 01-RES, DIRDIV, 14-OFFC, and FREQDQ to access water availability and environmental flow criteria throughout the State of Texas.
- Served as the Water Rights Doctrine Expert for the Colorado and Rio Grande Water Availability Model projects, which involved interpreting water right permits, certificates of adjudication, and complex amendments and developing logic for representing these authorizations in the WAM data files.
- Developed naturalized inflows for the Colorado and Rio Grande Water Availability Models, which involved extensive use of USGS streamflow data, filling missing periods of flow data using various regression techniques, compiling reported water use information, and manipulating data derived from the State's self reported waste water database.

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- Served as project manager of the Malaga Bend Salinity Control Project, which was a water quality enhancement project that involved the deliberate depletion of a brine aquifer that discharges saturated brine into the Pecos River upstream of Texas' water users.
- Made presentation to the official meeting of the Sabine River Compact Administration related to water quality conditions of Toledo Bend Reservoir.
- Used San Antonio/Guadalupe Basin WAM to assess impacts on reliability/value of moving the diversion point for an existing water right and subjecting it to additional environmental criteria.
- Used the TCEQ's latest version of the Guadalupe/San Antonio WAM to evaluate the reliability of mainstem water rights on the lower Guadalupe River to determine and compute unappropriated water at several locations for a new permit.
- Analyzed Canyon Lake simulation data from HDR's Guadalupe/San Antonio model representing the Canyon Lake permit amendment and reviewed simulated water surface elevation and other mass balance data for pre- and post-amendment conditions to ensure proper representation in the model.

R. J. BRANDES COMPANY Consulting in Water Resources

Professional Resume

RUSSELL T. MELTON

E-mail: rtmelton@rjbco.com

EDUCATION B.S., Civil Engineering, Texas A & M University, College Station, TX, 1990

REGISTRATION Professional Engineer, Texas, No. 83971, 1998

EXPERIENCE Mr. Melton has been involved in many water resources projects for R. J. Brandes Company. He provides technical expertise to surface-water projects dealing with hydrology, hydraulics, drainage, flooding, water quality, stormwater management, and water rights. He has performed water availability modeling in the Neches River Basin, Rio Grande River Basin, Colorado River Basin and in the Sulphur River Basin. He also has significant experience in the operation of several surface-water modeling programs, including WRAP-SIM, SIMYLD-II, HEC-1, HEC-2 and HEC-RAS. He has also performed in-stream water quality modeling using the United States Army Corps of Engineers Riverine Emergency Management Model. Mr. Melton has also developed hydrologic and hydraulic models for a 1,300-acre sanitary landfill in Collin County, Texas to determine the extent of the 100-year floodplain, above ground conveyance, erosion protection and detention.

PROFESSIONAL American Society of Civil Engineers AFFILIATIONS Texas Society of Professional Engineers

PROFESSIONAL HISTORY

1998 to present

Associate Engineer/Scientist, R. J. Brandes Company, Austin, Texas

- Rattan Creek Watershed Master Plan He assisted in the development of hydrologic and hydraulic models of the Rattan Creek watershed in Austin, Texas to develop Watershed Master Plans for the City of Austin Watershed Protection Department. Delineated the 100-year floodplain boundaries for ultimate development conditions.
- Brownsville Weir and Reservoir Project Developed and operated a HEC-RAS model of the Rio Grande River for the Brownsville Weir and Reservoir Project in order to determine upstream water surface elevations under various scenarios.
- Friendship Lane Expansion Project and Regional Detention Pond Developed and operated hydrologic and hydraulic models for the design of a regional detention pond and underground storm water conveyance system for the City of Fredericksburg. He developed all input data for the operation of HEC-1 and HEC-RAS models in order to determine the size of the regional detention pond and conveyance infrastructures. The associated infrastructure included stormwater inlets, underground conveyance systems and two roadway crossings for the five-lane roadway expansion project.
- Stone Ridge Regional Detention Pond Reviewed hydrologic and hydraulic models developed for the design of a regional detention facility for the City of Fredericksburg. Mr. Melton reviewed all elements of the model including SCS run-off curve numbers, times of

Professional Resume RUSSELL T MELTON Page 2 of 2

concentration, rainfall distributions, regional detention pond sizing, pond outlet configuration and the conveyance downstream of the pond.

- Carriage Hills Regional Detention Pond Determined the necessary pond size for the detention of the modeled 100-year storm event and designed the outlet structure for this regional detention pond for the City of Fredericksburg.
- 121 Regional Disposal Facility Developed a surface-water model for a 1,300-acre sanitary landfill project in Collin County, Texas. He delineated watershed boundaries and analyzed land use conditions and soil types in order to determine existing runoff with HEC-1, and developed and modeled conveyance systems and detention structures for post-project conditions using HEC-RAS.
- **Rio Grande Region M Planning** Operated the SIMYLD-II model on the Amistad/Falcon Reservoir system in order to determine firm annual yields in several population growth scenarios as a part of regional water planning for Region M. These firm annual yields using the reservoir operating system will be used in combination with the other water right demands in the region for water planning in Region M through 2050.
- Water Availability Modeling Projects As a member of the Water Availability Modeling team on the Sulphur, Colorado and Rio Grande Basins, Mr. Melton applied or developed firm yield analysis, reservoir operations, the prior appropriations doctrine, instream flows, naturalized flows, return flows, historical water usage, estimating water use, reservoir area-capacity relationships, and sediment accumulation. Mr. Melton operated the WRAP-SIM model for the Sulphur, Colorado and Rio Grande River Basins and played a large role in the development of the WRAP input files and testing and further development and refinement of the WRAP-SIM program.
- LCRA Water Rights Analysis Mr. Melton operated the WRAP-SIM model of the Colorado River for the Lower Colorado River Authority (LCRA) in order to determine water availability and water right reliability under various conditions of subordination and instream flow requirements. He also determined the firm annual yield of the lake Travis/Buchanan system under each scenario.
- LNVA Water Rights Analysis He operated the WRAP-SIM model for the Lower Neches Valley River Authority (LNVA) to determine the impact of varying hydropower releases from the Rayburn-Steinhagen reservoir system on LNVA's water rights and the instream flow downstream at the saltwater barrier.

1995 to 1998

Engineer, Turner Collie and Braden, Austin, Texas

• Designed site development plans, detention ponds and stormwater collection and conveyance systems per the requirements of several regulatory authorities including the Cities of Austin, Cedar Park, Round Rock and San Marcos, the TCEQ, the Texas Department of Transportation, the United States Environmental Protection Agency and the United States Army Corps of Engineers.

1990 to 1995

- Engineer, Bechtel, Inc., Houston, Texas
- Performed project scheduling on all phases of engineering, procurement, and construction on five large petrochemical projects, each with a total installed cost of \$100 million or greater. Member of project management team responsible for developing and presenting monthly project progress reports to clients and upper Bechtel management on all projects.

PERSONAL RESUME

NAME:

Kenneth N. Jones, Jr.

PERMANENT ADDRESS: 1008 Dennise Court Mission, Texas 78572

TELEPHONE:

Home: Office:

(956) 519-5247 (956) 682-3481

DATE OF BIRTH:

July 30, 1951

PLACE OF BIRTH:

Mercedes, Texas

MARITAL STATUS:

Married

EDUCATIONAL BACKGROUND:

- < 1969 Graduated with honors from Mercedes High School, Mercedes, Texas
- < 1973 Cum Laude Graduate from Texas A&I University in Kingsville, Texas, Bachelor of Arts Degree (Major Geography - Minor Geology)
- < 1977 Received Master of Arts Degree, University of Southern Mississippi, Hattiesburg, Mississippi (Major course of study - Planning and Resource Management)

RESUME, Kenneth N. Jones, Jr., Cont'd.

EMPLOYMENT HISTORY:

PRESENT: Lower Rio Grande Valley Development Council (LRGVDC)

ADDRESS: 311 North 15th Street, McAllen, Texas 78501-4705

DATE EMPLOYED: January, 1992

TITLE: EXECUTIVE DIRECTOR

DUTIES: Responsible for the overall management and administration of the LRGVDC including the implementation of programs and special projects as approved and authorized by the LRGVDC Board of Directors. Additional responsibilities include the following:

- Provides direct administrative guidance for all LRGVDC Programs.
- Coordinates the preparation of the LRGVDC's Annual Budget and Work Program.
- Coordinates the preparation of LRGVDC's Annual Report.
- Responsible for maintaining Policies and Procedures Manual to ensure compliance with all applicable Federal and State Laws.
- Maintains continuous liaison with federal and state funding agencies.
- Introduces new program and management ideas into organization.
- Coordinates the preparation of monthly Board of Directors meetings and annual meetings of the LRGVDC membership.
- Reviews and analyzes all financial statements and implements alternate spending patterns based on program progress and availability of funds.
- Implements the Revolving Loan program through the Lower Rio Grande Valley Economic Development Corporation.
- Responsible for providing staff support to the Lower Rio Grande Valley Certified Development Company for implementation of the SBA-504 Program.
- Responsible for providing staff and administrative support to the Hidalgo County Metropolitan Planning Organization (MPO).
- Responsible for providing staff and administrative support for the Rio Grande Regional Water Planning Group (RGRWPG), an eight (8) county region.
- Represents LRGVDC at meetings and conferences.

Lower Rio Grande Valley Development Council

311 North 15th McAllen, Texas 78501

June 1983 - January 1992

ASSISTANT EXECUTIVE DIRECTOR

Served as Assistant to the Executive Director and was responsible for performing delegated functions for the effective operation of the Council and staff. The assistant Executive Director serves as Director of the LRGVDC when the Executive Director is absent, and is responsible for assisting the Executive Director with the Council's internal management. This position also included organizing staff for the completion of assigned tasks and assisting with the resolution of any conflict and in the elimination of overlapping responsibilities among personnel. Additional responsibilities included the following:

- Assisted in preparation of LRGVDC's Annual Budget
 and Work Program.
- Provided recommendations to Executive Director regarding personnel actions.
- Provided staff support for the Revolving Loan SBA-504 Programs.

ORGANIZATION: ADDRESS:

DATE EMPLOYED:

TITLE:

DUTIES:

ORGANIZATION:	City of McAllen
ADDRESS:	P.O. Box 220 McAllen, Texas 78501
DATE EMPLOYED:	June 1981 - June 1983
TITLE:	DIRECTOR OF PLANNING
DUTIES:	Responsible for administration of the Planning, Building Inspection and Health Departments of the City as Follows:

PLANNING DEPARTMENT:

Responsible for supervising both current and long-range planning activities of the Planning Department. This involved the development and updating of long-range planning goals and objectives for the municipality and the revision of implementation tools for these goals (i.e., zoning ordinances, subdivision regulations, etc.)

This position also held the responsibility for the coordination throughout all city departments for the recording of subdivision plats within the city limits and McAllen E.T.J.

In addition, the Director of Planning was responsible for the enforcement of the City's zoning and subdivision ordinances and for supervision of the Community Development Program.

BUILDING INSPECTION DEPARTMENT

This position carried the responsibility for supervising the Building Inspection Department of the City. Specifically, the task primarily ensured that construction within the City met all applicable adopted codes, i.e., building, electrical, plumbing, etc.

HEALTH DEPARTMENT

As Director of Planning, I was responsible for the supervision of activities of the City Health Department to ensure that all applicable city health codes were enforced, and to ensure coordination of the Health Department with any other city departments and local agencies, i.e., Department of Human Resources, State Health Department, County Health Department, etc.

ORGANIZATION:

Lower Rio Grande Valley Development Council (LRGVDC)

DATE EMPLOYED:

SENIOR PLANNER

October 1977 - June 1981

DUTIES:

TITLE:

The organizational structure of this agency and the diversification of both Planning and Environmental Resources Departments enabled me to become involved in all facets of regional planning. Initially, within the Planning Department, then later within the Environmental Resources Department, I was responsible for the planning of research, evaluation and supervision of technical work on all activities. In this capacity I had the opportunity to gain experience by assisting all LRGVDC programs.

ORGANIZATION:

Southern Mississippi Planning and Development District, Inc.

(SMPDD)

ADDRESS:

DATE EMPLOYED:

TITLE:

DUTIES:

1020 32nd Avenue Gulfport, Mississippi 39501

June 1974 - September 1977

RESOURCE PLANNER

Responsible for development of technical work within the Planning Division of SMPDD. This division was directly responsible for state and federal programs administered by: The Department of Housing and Urban Development, the Economic Development Administration, Office of Management and Budget (A-95 notification and review process), Intergovernmental Personnel Program, Governor's Highway Safety Program, and the Governor's Summer Recreation Program. I was directly responsible for the formulation of local (HUD 701) as well as other regional plans. Through SMPDD's Technical Assistance Program I gained experience in proposal writing, development of applications (EDA, HUD), and assisted local governments in their day-to-day administration of federal and state programs.

PROFESSIONAL AFFILIATIONS AND APPOINTMENTS:

Received in 2004 the Al J. Notzon Regional Unity Award presented at Texas Association of Regional Councils Annual Conference

Appointed in 1995 as Council of Governments Liaison to Texas Rural Development Council.

Selected by SBA District Office, Harlingen, as 1991 Small Business Advocate of the Year.

Served as Vice-Chairman of the TSTC (McAllen Campus) Advisory Committee in 1991.

Appointed to National Association of Development Companies (NADCO) Region VI Executive Committee 1990, and appointed to NADCO Financial Diversification Committee in 1991.

Appointed in 1990 by the U.S. Small Business Administration (SBA), as a member to the SBA Region VI - Lower Rio Grande Valley Advisory Council.

Past Member, Texas Chapter of APA, and served as President of Southmost Section APA in 1981.

Serving and have served on the following program committees for the Texas Association of Regional Councils (TARC):

- Regional Alcoholism & Drug Abuse
- Criminal Justice
- Community and Economic Development Chair
- Legislative Committee
- Program and Professional Development Committee
- Management & Operations Subcommittee, Chair

Elected Texas Representative to the National Association of Development Organizations (NADO) Board of Directors 1992 to present.

Elected President of NADO in 2005.

Elected 1st Vice-President of NADO in 2004.

Elected 2nd Vice-President of NADO in 2003.

Elected Secretary of NADO in 2002.

Elected Treasurer of NADO in 2001.

Served as Chairman of NADO Nominating Committee in 2000.

Served as Chair of TARC Executive Directors Council 1999-2000.

PERSONAL AND PROFESSIONAL REFERENCES ARE AVAILABLE UPON REQUEST.

FERNANDEZ GROUP

LINDA FERNANDEZ Principal

Assignment	Public Information and communications
Education	1977: MA, English Literature, Florida State University (GPA 4.0) 1973: BA, magna cum laude, English Literature, FSU

Professional Overview

Experienced professional public affairs specialist, technical writer and editor, and legislative analyst with special expertise in environmental issues, particularly water. Proven abilities in communicating technical information on water rights and supplies to the general public and the media. Has coordinated and managed regional and statewide programs designed to heighten public awareness of water resources and supplies. Served as:

- Public outreach coordinator for the SB 1 Rio Grande Regional Water Planning Group (Region M) and Quality Water for the Brazos Community, an IRP process funded by EPA and managed by the Brazos River Authority;
- Project manager for Water Smart 2000, a public education and awareness effort of the Texas Natural Resource Conservation Commission and Texas Water Development Board;
- Media point person on water issues and chief speechwriter for the TNRCC;
- A top legislative analyst for the Texas House of Representatives; and
- State correspondent for national trade publications on a wide range of environmental and health and safety issues.

Certified by the State of Texas Historically Underutilized Business Certification Program as a Minority/Women Owned Business.

Selected Accomplishments

Developed and managed for the Texas Natural Resource Conservation Commission multiple iterations of Water Smart, a public outreach program designed to heighten awareness of issues affecting municipal water resources and supplies. Initial phases in the Lower Rio Grande Valley entailed considerable interaction with top state and federal officials, planning and coordinating, for example, press conferences including Gov. George Bush. Later retained by TNRCC to manage subsequent campaign efforts in other regions of Texas. As part of one effort, raised \$65,000 in corporate and association contributions to the campaign to augment a \$100,000 state budget. Secured editorial support from *the Dallas Morning News*, *Houston Chronicle*, and *Fort Worth Star-Telegram*. For Water Smart 2000, managed a statewide media campaign with the Texas Association of Broadcasters and enlisted as partners in the outreach effort Texas Rural Water Association, Texas Water Utilities Association, Texas Municipal League, Texas Section – American Water Works Association, Texas Water Conservation Association, and others.

Managed public participation activities for the Rio Grande Regional Water Planning Group (SB 1 Region M) under subcontract to Turner, Collie & Braden. Duties including writing and formatting regular newsletters, developing a public presentation, alerting media to monthly meetings, developing a region wide media campaign to raise awareness of the draft plan, and coordinating campaign activities of planning group members.

Served as editor for House Research Organization, the nonpartisan legislative analysis arm of the Texas House of Representatives. Planned and oversaw analyses of SB 1 during the 75th session, as well as

special reports on water issues facing legislators during the session. Reported on joint House-Senate interim hearings on the 1998 drought.

Reported on news of Texas legislation, regulatory activities, policies, and new developments in a number of fields, including water supply issues, groundwater pollution, toxic materials, solid waste, hazmat transportation, occupational health, AIDS, substance abuse, work/family issues, and labor market trends. Clients included Buraff Publications, Washington, DC; Business Publishers, Inc., Silver Spring, MD; National Alliance for Insurance Education & Research, Austin; RPC, Inc., Austin; Carter and Burgess, Inc., Fort Worth; and *Texas Environmental News*, Fort Worth.