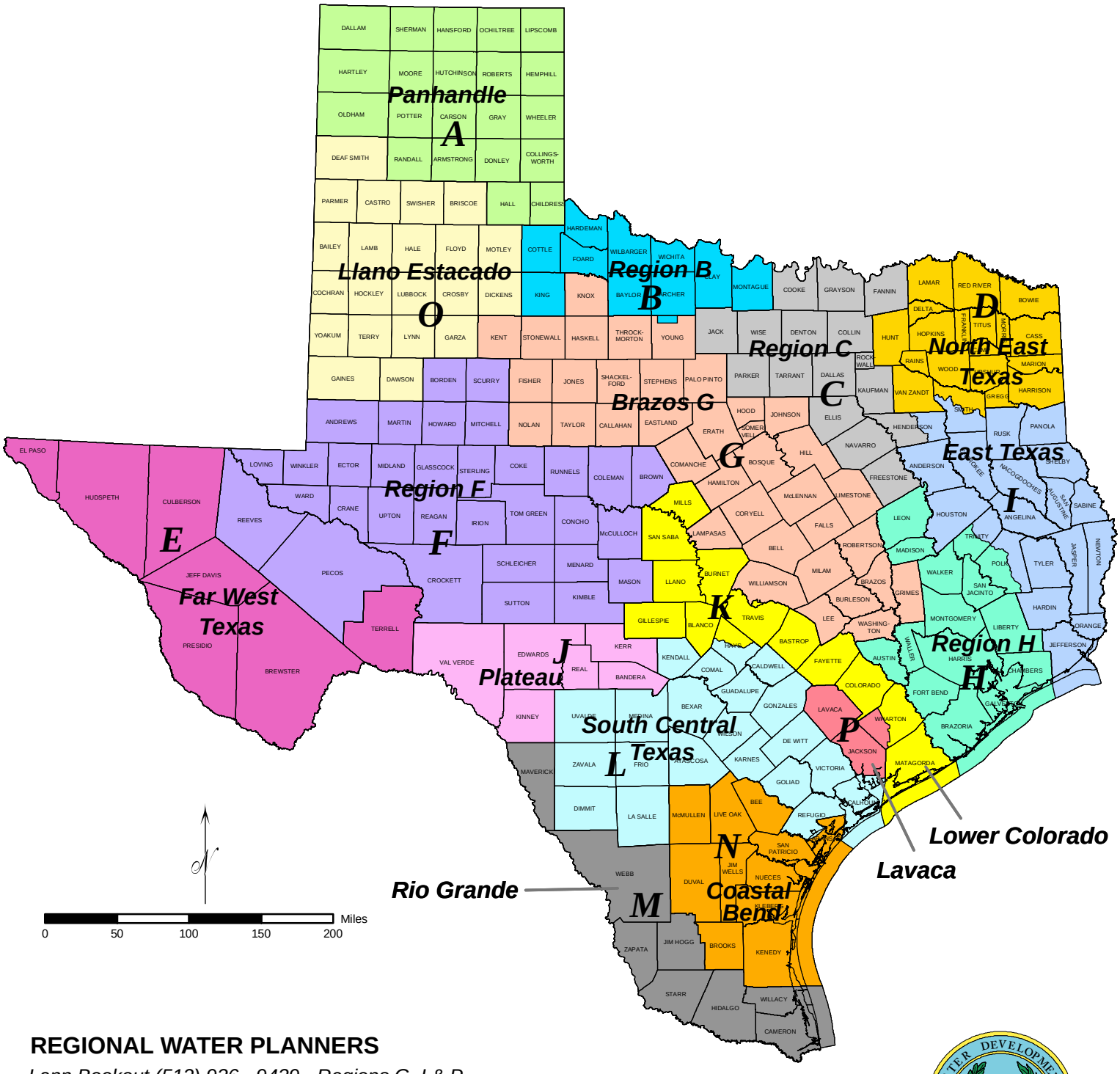
Appendix A: Map of Regional Water Planning Areas

Regional Water Planning Areas

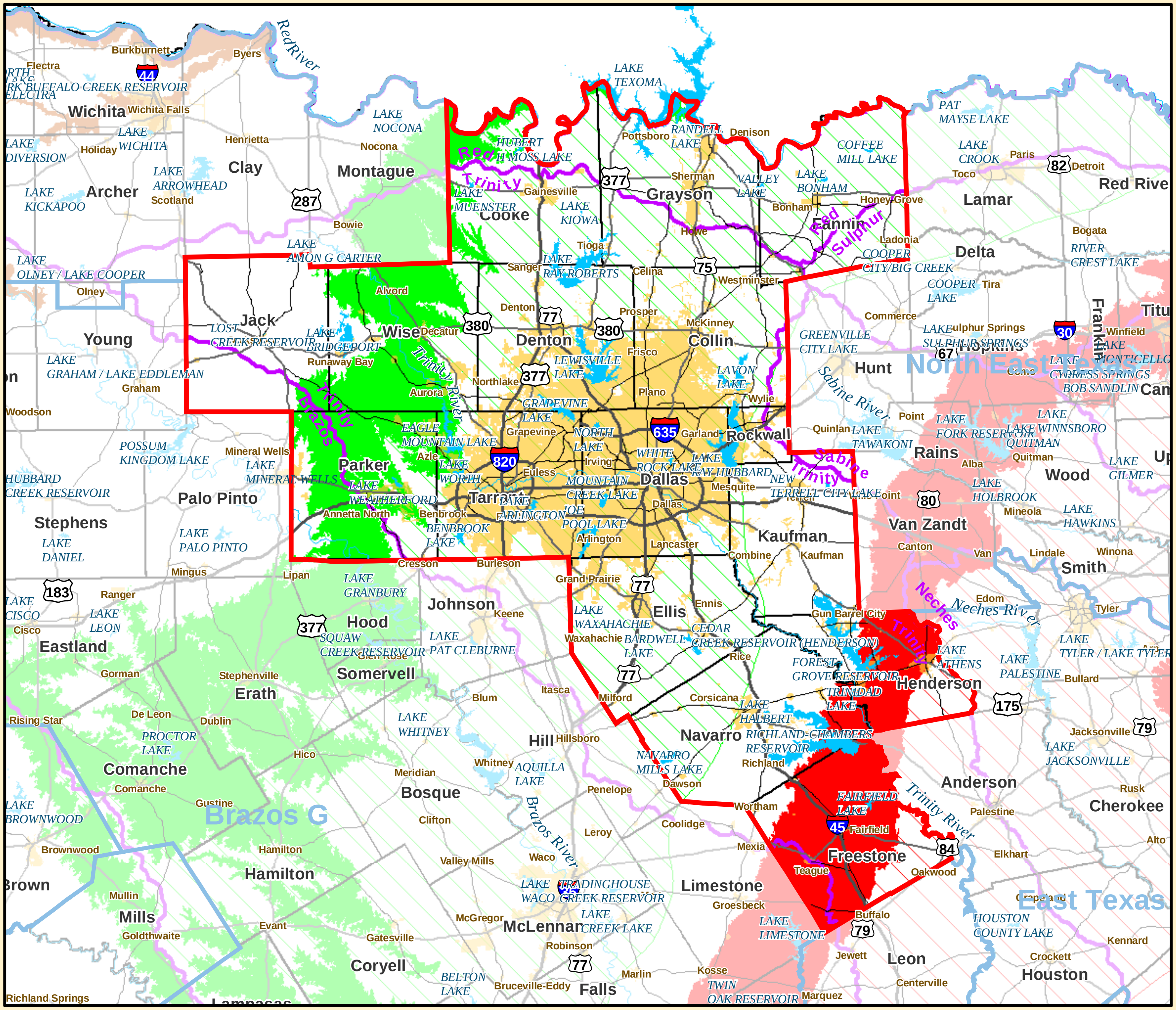


REGIONAL WATER PLANNERS

Lann Bookout (512) 936 - 9439 - Regions G, I & P
Angela Kennedy (512) 463 - 1437 - Regions C, F & O
Temple McKinnon (512) 475 - 2057 - Regions D & H
David Meesey (512) 936 - 0852 - Region K
Matt Nelson (512) 936 - 3550 - Regions L
Virginia Sabia (512) 936 - 9363 - Regions A, B & N
Connie Townsend (512) 463 - 8290 - Regions E, J & M

Updated by Mark Hayes, GISP
Mapping Coordinator
GIS Section
2/1/2010

Regional Water Planning Group - Region C



Map Legend

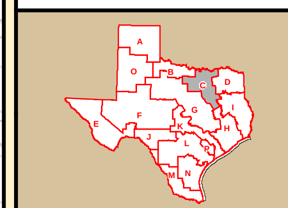
- Region C
- All Regions
- Major river
- Existing reservoirs
- River Basin
- Interstate Highway
- US Highway
- State Highway
- City
- County

Major Aquifers

- Seymour
- Carrizo - Wilcox (outcrop)
- Carrizo - Wilcox (subcrop)
- Trinity (outcrop)
- Trinity (subcrop)

DISCLAIMER
No claims are made to the accuracy or completeness of the data nor to its suitability for a particular use. The scale and compilation of all information shown here is approximate.

Map prepared by Mark Hayes
Texas Water Development Board
GIS Section
Updated 10/5/2007

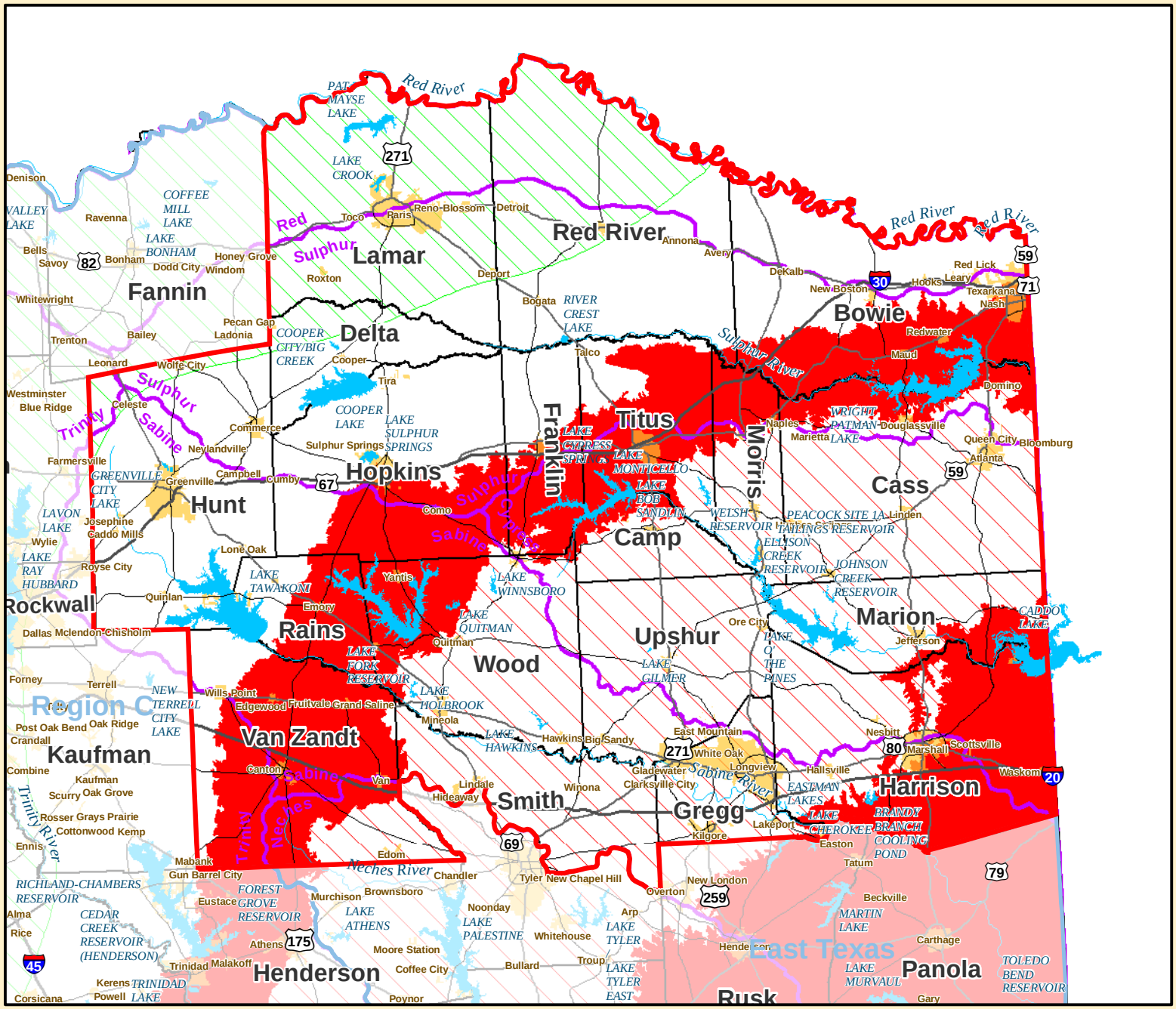


0 6 12 18 24 30 Miles

1 inch equals 30 miles

Map updated by Mark Hayes, Texas Water Development Board, Planning Division, GIS Section (10/07) L:\projects\RIO\TS\carchuleta\Maps_ArcGIS\MXDs\Regional Water Planning Area Maps

Regional Water Planning Area - Region D



Map Legend

- Region D
- All Regions
- Major river
- Existing reservoirs
- River Basin
- Interstate Highway
- US Highway
- State Highway
- City
- County

Major Aquifers

- Carrizo - Wilcox (outcrop)
- Carrizo - Wilcox (subcrop)
- Trinity (subcrop)

DISCLAIMER

No claims are made to the accuracy or completeness of the data nor to its suitability for a particular use. The scale and compilation of all information shown here is approximate.

Map prepared by Mark Hayes
Texas Water Development Board
GIS Section
Updated 10/5/2007

Map updated by Mark Hayes, Texas Water Development Board, Planning Division, GIS Section (10/07) L:\projects\RIO\TS\carchuleta\Maps_ArcGIS\MXDs\Regional Water Planning Area Maps

Appendix B: Communications from Study Commission

CAPITOL:
P.O. Box 12068, Room 1E.3
Austin, Texas 78711
(512) 463-0108
(512) 463-7579 (Fax)
Dial 711 for Relay Calls

DISTRICT:
5000 Legacy Drive
Suite 494
Plano, Texas 75024
(972) 403-3404
(972) 403-3405 (Fax)

COMMITTEES:
Education, Chair
Finance
Administration
Transportation and
Homeland Security

President Pro Tempore
2005

FLORENCE SHAPIRO
Texas State Senator
District 8

February 8, 2008

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

Dear Mr. Ward,

The Study Commission on Region C Water Supply will convene for the first time on Wednesday, February 13, 2008 at 1:00 pm in Richardson, Texas. As you know, the Study Commission was created during the 80th Legislative Session as part of Senate Bill 3 to promote collaboration between the Region C and D Planning Groups and to jointly plan for future water supplies in North Texas. The Study Commission is comprised of six members, three of which were appointed by the Region C Planning Group, and three of which were appointed by the Region D Planning Group.

By this letter, I am respectfully requesting your attendance at this upcoming meeting to present the following information – a review of the legislative charges of the Study Commission, a description of your agency's role and potential support activities, and a summary of the TWDB application process for grant funding. This presentation is on the agenda as Agenda Item III.

Attached is a copy of the meeting agenda for your convenience.

Very truly yours,

Florence Shapiro

FS/sb

STUDY COMMISSION
ON REGION C WATER SUPPLY

OPEN PUBLIC MEETING

FEBRUARY 13, 2008
1:00 P.M.

The Meeting will be held at:

University of Texas at Dallas
Eugene McDermott Library
McDermott Suite, 4th Floor
800 West Campbell Road
Richardson, Texas 75080

AGENDA

I. Call to Order

II. Welcome/Introduction

III. Review of Legislative Charges and Role of TWDB

IV. Discussion and Possible Selection of Presiding Officer

V. Discussion and Decision on Developing Bylaws

VI. Discussion Relating to Development of Scope of Work, Timeline, and Selection of Consultant

VII. Open Floor for Member Discussion of Other Topics

VIII. Discussion/Selection of Date, Time, and Location of Next Meeting

IX. Public Comment

X. Adjourn

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3609 Legacy Drive
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(972) 403-2405 (Fax)

FLORENCE SHAPIRO
Texas State Senator
District 8

COMMITTEES:
Education, Chair
Finance
Administration
Transportation and
Homeland Security

President Pro Tempore
2005

RECEIVED

SEP 26 2008

TWDB

September 24, 2008

Mr. James M. Parks.
Executive Director
North Texas Municipal Water District
505 E. Brown St.
Wylie, TX 75098-2408

Dear Mr. Parks,

In response to your recent letter regarding the publication of the "Request for Qualifications" (RFQ), we agree that it is imperative to move this process forward in a timely manner. As such, we authorize you, as the Administrative Officer for the Study Commission, to publish the RFQ as prepared by the Texas Water Development Board (TWDB) and to be reviewed by the subgroup assigned by the Study Commission to develop the Scope of Work, specifically Jim Parks and Tom Duckert.

In addition, we ask that the TWDB and yourself begin preparation of a draft "Request for Proposal" (RFP), based on the Scope of Work adopted by the Study Commission, to be considered at the next meeting on Wednesday, November 12. It is our hope that the Commission will be able to review the consultants that respond to the RFQ at this meeting and, in the event we are able to choose one, have the RFP ready to be published.

It should be noted that all those responding should adhere to Senate Bill 3 and the requirement that all who assist the Study Commission shall not have any monetary interest in the Marvin Nichols Reservoir construction.

Finally, we submit to you a draft agenda of items we intend to take up at the next Study Commission hearing. Please find attached the draft. Thank you for your continued service to this Study Commission.

Sincerely,

Senator Florence Shapiro
Co-Presiding Officer

Representative Stephen Frost
Co-Presiding Officer

cc: Representative Jodie Laubenberg, Member, Region C Water Supply Study Commission
Richard LeTourneau, Member, Region C Water Supply Study Commission
Thomas F. Duckert, Member, Region C Water Supply Study Commission
Kevin Ward, Texas Water Development Board

FS/sb

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(972) 403-3405 (Fax)

FLORENCE SHAPIRO
Texas State Senator
District 8

COMMITTEES:
Education, Chair
Finance
Administration
Transportation and
Homeland Security

President Pro Tempore
2005

April 7, 2009

RECEIVED
APR 08 2009
TWDB

David K. Harkins, Ph.D., P.E.
Vice President
Espey Consultants, Inc.
3809 South Second St. Suite B 300
Austin, Texas 78704

Dear Dr. Harkins,

We have recently been made aware of your request to meet with the planning groups of both Region C and Region D. It is our understanding that you are not explicitly authorized to do so according to the Scope of Work adopted by the Study Commission. However, we see no reason you should not be able to do so. Therefore, as co-presiding officers of the Study Commission on Region C Water Supply, we authorize you to meet with both Region C and Region D at your convenience. We do not authorize any additional funding to be expended for this purpose; it must be done within the current funding constraints.

We appreciate your continued work on this crucial study.

Sincerely,

Senator Florence Shapiro
Co-Presiding Officer

Representative Stephen Frost
Co-Presiding Officer

cc: Representative Jodie Laubenberg, Member, Region C Water Supply Study Commission
Richard LeTourneau, Member, Region C Water Supply Study Commission
Thomas F. Duckert, Member, Region C Water Supply Study Commission
Jim Parks, Member, Region C Water Supply Study Commission
Kevin Ward, Texas Water Development Board

FS/sb

Appendix C: Membership Nominations

REGION C WATER PLANNING GROUP

Senate Bill 1 Third Round of Regional Water Planning - Texas Water Development Board

October 2, 2007

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

Dear Mr. Ward:

The purpose of this letter is to inform you that the Region C Water Planning Group appointed the following members to the Study Commission on Region C Water Supply:

- Senator Florence Shapiro
- Representative Jodie Laubenberg
- Jim Parks

These appointments were made by a unanimous vote of the Region C Water Planning Group members present at their meeting held on October 1, 2007. We look forward to hearing from the TWDB regarding scheduling the first meeting of the Commission and look forward to working with the TWDB and members appointed by Region D on this Study Commission.

Please let me know if you need additional information from us.

Sincerely,

JAMES M. PARKS
Chairman

JMP/mcf

c/o NTMWD
505 E. Brown Street
P. O. Box 2408
Wylie, Texas 75098-2408
972/442-5405
972/295-6440/Fax
jparks@ntmwd.com

Minutes of the North East Texas Regional Water Planning Group
August 15, 2007 – 1:00 P.M.
Mt. Pleasant Civic Center
1800 N. Jefferson
Mt. Pleasant, Texas

The Region D Water Planning Group (NETRWPG) met in an open meeting on Wednesday, August 15, 2007, at 1:00 P.M. The meeting was held at the Mt. Pleasant Civic Center, 1800 N. Jefferson, Mt. Pleasant, Texas. Notice of the meeting was legally posted.

Chair Thompson called the meeting to order at 1:00 p.m. A quorum was present. Invocation was given by Jim Thompson. Chair Thompson reported that Planning Group Member John Durgin had been killed in an auto accident and requested a minute of silent prayer for Mr. Durgin.

The following voting members were present:

Max Bain
Adam Bradley
Keith Bonds
Larry Calvin
Dean Carrell
Greg Carter
Gary Cheatwood
George Frost
Scott Hammer
Troy Henry
Don Hightower
Richard LeTourneau
Sharon Nabors
Jim Nickerson
Don Patterson
Mendy Rabicoff
Ken Shaw
Bob Staton
Jim Thompson
David Weidman
Richard Zachary

The following non-voting members were present:

David Meesey, representing Texas Water Development Board
Kathleen Garrett, representing Texas Water Development Board
David Inman, representing Texas Department of Agriculture
Robert McCarthy, representing North Texas Municipal Water District
John Jones, representing TPWD
Bobby Praytor, representing City of Dallas

The following non-voting members were absent:

Curtis Campbell
Jerry Clark
David Ryburn
Thomas Taylor
Glenda Kindle
Mike Rickman
Wayne Harris
Greg Conley
Marcia Hackett

The following alternates were present:

Jerry Biggs, representing Jim Clark
C. W. Forsyth, representing John Bryan

The following voting members were absent:

Jim Clark
John Bryan

Larry Calvin made a motion to approve the minutes of the meeting June 20, 2007 as presented. Jim Nickerson seconded the motion. Motion carried, all voting aye.

Chair Thompson advised that eleven persons had been nominated for the Special Study Commission as established by Senate Bill 3. Chair Thompson listed the nominees: Stephen Frost, Tom Duckert, Richard LeTourneau, Jim Nickerson, C. W. Forsyth, Earl Roberts Jr., Tony Williams, Tom Ramsay, Troy Henry, David Neeley and Jason Hightower. Chair Thompson also read a brief description of each nominee. Chair Thompson advised that the nominees would have to receive 2/3 majority of the votes in order to be selected to the committee.

Richard LeTourneau received at least 2/3 majority of the votes when 16 votes were cast for him during the first round of voting. After the second round of voting, Dean Carrell made a motion to drop the three lowest vote-getters. Max Bain seconded the motion. Motion carried.

After the third round of voting, Richard LeTourneau made a motion to drop the two lowest vote-getters. Sharon Nabors seconded the motion. Motion carried.

George Frost made motion to hear from the remaining nominees. Jim Nickerson seconded the motion. Motion failed.

After the fourth round of voting, Dean Carrell made a motion to drop the two lowest vote-getters. Richard LeTourneau seconded the motion. Motion carried.

Tom Duckert received at least 2/3 majority of the votes when 16 votes were cast for him during the fifth round of voting.

After the fifth round of voting, Jim Nickerson made a motion to hear from the remaining nominees. Greg Carter seconded the motion. Motion carried.

After the sixth round of voting, Stephen Frost and Troy Henry spoke briefly to the committee outlining their individual points of view concerning regional water planning and related matters.

Stephen Frost received at least 2/3 majority of the votes when 17 votes were cast for him during the seventh round of voting.

After the seventh round of voting, Chair Thompson announced the Richard LeTourneau, Tom Duckert and Stephen Frost were selected to the Special Study Commission to represent Region D.

Don Hightower made a motion to reappoint the eight committee members whose terms are expiring to a 3-year term. Those eight members are: Max Bain, Keith Bonds, Gary Cheatwood, Scott Hammer, Troy Henry, Richard LeTourneau, David Weidman and Richard Zachary. Don Patterson seconded the motion. Motion carried, all voting aye.

Bob Staton made a motion to appoint Don Hightower to the "At-Large" position on the Executive Committee created by John Durgin's death. Max Bain seconded the motion. Motion carried, all voting aye.

Richard LeTourneau made motion to begin the publication notice for the vacancy of the position on the planning group previously held by John Durgin. Jim Nickerson seconded the motion. Motion carried, all voting aye.

Chair Thompson advised that comments regarding the TWDB letter dated June 27, 2007 be sent to the Northeast Texas Municipal Water District for submission to the TWDB.

George Frost made a motion to authorize a letter of support for Greg Carter to be placed on the Texas Water Conservation Advisory Council as authorized by Senate Bill 3. Richard LeTourneau seconded the motion. Motion carried, all voting aye.

Liaisons did not have anything to report from the other regional water planning groups or groundwater planning groups.

Chairman Thompson advised that the next meeting will be held on October 17, 2007.

Public Comments were received from:

David Nabors	Lamar County
John McConnell	Bogata
Brandon Teague	Deport
Beverly Phares	Redwater

The meeting was unanimously adjourned at 2:30 p.m.

George Frost

George Frost, Secretary

ADDITIONAL ATTENDEES:

Walt Sears, Jr.	NETMWD
Nancy Stirl	NETMWD
Lee Thomas	NETMWD
Lou Richards	NETMWD
William Brown	NETMWD
Ray Flemons	BWR
Stan Hayes	Hayes Engineering
David Meesey	TWDB
Kathleen Garrett	TWDB
Bob Bowman	Bowman and Associates
John McConnell	Bogata
David Nabors	Paris
Freda Smart	Paris
Pauline Greenwood	Paris
Max Shumake	DeKalb
Shirley Shumake	DeKalb
Tad Roberts	Longview
Mary Cotten	Bogata
Dan Cotton	Bogata
Patricia McKelvey	Bogata
Joe McKelvey	Bogata
Betty Malone	Paris
Carrol Malone	Paris
Thedus Kelly	Paris
Jane Morris	New Boston
Robert Moore	Clarksville
Rita McCulley	Cooper
Brandon Teague	Deport
John B. Jones	Atlanta
Tim Hightower	Mt. Vernon
Dolores Cheatwood	Bogata
Emily Fleming	Avery
Greg Bishof	Texarkana
John Herrington	Paris
Thomas Duckert	Texarkana
Stephen Frost	Atlanta
Kaylen Goss	Bogata
Darwin Douthit	Canton
David Neeley	Mt. Pleasant
Amanda Keeney	Domino
Troy Sellers	Mt. Pleasant

ADDITIONAL ATTENDEES:

Norma Kelley	Paris
Seaby Love	DeKalb
Owen Love	DeKalb
Doug Wadley	Texarkana
Billie Lindsey	Bogata
Tommy Spruill	Mt. Pleasant
Vatra Soloman	Mt. Pleasant
Mary Grant	Annona
Rebecca Hale	Clarksville
Robert Russell	Mt. Pleasant
Pam Splawn	Paris
Nina Holt	Bogata
Charles Wright	Mt. Pleasant
Sheri New	Queen City
Joan Floyd	Longview
Jimmy Isaac	Longview
Lori Cole	Sulphur Springs
Beverly Phares	Redwater
Wendell Davis	Clarksville
Ann Rushing	Clarksville
Mary Duckert	Texarkana
Dan Hampton	Mt. Vernon
Toyce Graves	Royse City
Doris Bowman	Lufkin
Doug Smith	Clarksville
Wayne Harris	Mt. Pleasant
Virginia Eatherly	Pattonville
Richard Eatherly	Pattonville
Mike Personnett	Austin
Dan Buhman	Dallas
Phil Blood	Naples
Roger Guess	Bogata
Don Gaines	Annona
Ashley Tompkins	Mt. Pleasant
Ken Bishop	Clarksville

Appendix D: Contracted Scopes of Work and Budgets

EXHIBIT B
SCOPE OF WORK

The existing and available work of Region C and the Texas Water Development Board (TWDB) is a major resource for Region C and will be utilized to the fullest extent possible. It is recognized that one objective of the Region C Water Plan was to demonstrate viable water supply alternatives available to the Region C Regional Water Planning Area. These alternatives include obtaining additional water supplies from Lake Texoma, Toledo Bend Reservoir, Lake Wright Patman, Lake O' the Pines, other existing supplies such as groundwater, or proposed reservoirs. The primary objective of this initial work element is to compile, organize, and summarize existing studies and analyses that have evaluated Region C water supply alternatives.

As such, the work described below will be prosecuted in a multi-phase approach. Phase I will focus upon an initial literature review, data gap analysis, and an initial socioeconomic impact analysis of studies related to selected five reservoirs:

1. Marvin Nichols
2. Wright Patman
3. Toledo Bend
4. Lake Texoma
5. Lake O' The Pines

A review will be made subsequent to this first phase of work pertaining to the viability of prosecuting the remaining work elements specific to these five reservoirs as Phase IIA of this study, or if a more comprehensive analysis of alternative studies (inclusive of these five reservoirs) should be performed as a Phase IIB of this study. The following work elements will proceed as part of these phases of work.

Phase I

Task 1. Water Supply Alternatives

Work will include the following:

SubTask 1.1 - Literature Review

1.1.1. Perform literature review via comprehensive analysis of reports and documents related to the stated subject matter and published or located (but not limited to) the following sources:

- State of Texas agencies including TPWD, TCEQ, TWDB or predecessor agencies;
- Federal agency reports including those produced by U.S. Geological Survey (USGS), U.S. Fish and Wildlife Service, U.S. Bureau of Reclamation, and U.S. Army Corps of Engineers;

- River Authority and Water Districts
- University studies
- Journal articles referenced in the following online databases:
- Applied Science and Technology Abstracts,
- Water Resource Abstracts.

Where possible, effort will be made to obtain all studies that have considered, evaluated, or proposed water supply alternatives for the Region C Planning Area, and will cover studies back to 1985. The project team will coordinate with the Study Commission to determine at what level the point of diminishing returns is located in order to manage expectations, and due diligence will be made to obtain all studies, including those not necessarily utilized in the state's Regional Water Planning Process.

1.1.2. **Deliverable 1.1A:** A comprehensive list will be compiled detailing each study, including a synopsis of each study, title, date of study, sponsor, author, type (technical vs. planning), subject (specific facility vs. water user water plan), and relevant information to the focus of this project.

1.1.3 **Deliverable 1.1B:** Compile a draft list of water supply alternatives for evaluation to be submitted to the Study Commission for review and comment.

1.1.4 Study Commission QA/QC. (Task Performed by Commission)

1.1.5 **Deliverable 1.1C:** Incorporate the Commission's suggested modifications to create a final list of water supply alternatives for submission.

1.1.6 **Deliverable 1.1D:** A brief SubTask report summarizing the results of this work element, including the report synopses and bibliography, will be submitted in a .pdf format. A presentation will also be made of the findings at the time of submittal, if requested by the Study Commission.

SubTask 1.2 - Data Gap Analysis

Assess results of previous work elements for potential gaps in information with respect to what additional studies might be undertaken to bridge those gaps.

1.2.1 Contact all of the major water providers in Region C to determine the availability of relevant studies.

1.2.2 Identify potential gaps in existing water supply plans and studies.

1.2.3 **Deliverable 1.2A:** Based on best professional judgment and coordination at the agency staff level, a preliminary set of recommendations for studies to bridge data gaps will be presented. A preliminary ranking will be performed to assess the analysis to be prosecuted in Task 2.

1.2.4 Study Commission QA/QC. (Task Performed by Commission)

1.2.5 **Deliverable 1.2B:** Incorporate comments from the Study Commission to develop draft scopes of work for additional studies and a ranking for Phase 1, Task 2 of this analysis. Prepare a brief report and data files summarizing the results of this work element will be submitted in a PDF format. A presentation will also be made of the findings at the time of submittal, if requested by the Study Commission.

Task 2. Project approach: Socioeconomic Impacts

SB 3 requires an analysis of the socioeconomic impact on areas in which water supply used to meet the water needs of Region C would potentially be located. These areas are herein referred to as the "Basin of Origin." Specifically, this impact determination should consider the effects on landowners, agricultural and natural resources, businesses, industries, and taxing entities. Further, SB 3 also requires the determination of the socioeconomic impact on the Basin of Origin of utilizing water from Wright Patman Lake to meet future water needs in Region C. Specifically, this impact will examine potential changes in water availability from the reservoir and the impact this may have on cities, business, and industries that rely on the reservoir for water supplies. This task while initiated during Phase I of this study, will be carried forward into Phase IIA or IIB as work progresses.

Work will include the following:

2.1 - Kick-off Meeting

To initiate Task 2 of the Project, Project Team Members propose to meet with the Study Commission and/or its designees to finalize the specific Scope of Services to complete Task 2 and to clarify and finalize the Study Commission's Goals and Objectives for the Task. During this meeting, the Project Team will request from the Study Commission the list of agencies or organizations the Project Team should approach to secure any additional reports or studies that are responsive to SB 3 requirements.

2.2 - Literature Review

2.2.1 Conduct a literature review of reports and/or analysis identified by the Study Commission and other reports and/or analyses which may be readily available related to the determination of the socioeconomic impact of the development and/or use of water supplies to the supply's Basin of Origin. Examine each report and/or analysis and prepare a memorandum which discusses the methodology employed and provides the Project Team's perceived strengths and/or weakness of said methodology and results. Further, the Project Team will also identify any gaps within the reports and/or analyses and provide recommendations on how to bridge such gaps to the Study Commission. This examination will include, but not be limited to, the studies identified within the Draft List of Citations for Studies Related to Task 2 as identified within the Request for SOQs.

2.2.2 **Deliverable 2.2A:** Once completed, draft memorandum will be submitted to the Study Commission for review and comment.

2.2.3 Study Commission QA/QC. Upon review, the Project Team will request further guidance from the Study Commission on the methodology and/or techniques to be employed in determining the socioeconomic impacts related to Region C Water Supply Alternatives. *(Task Performed by Commission)*

2.2.4 **Deliverable 2.2B:** Submit Final Methodology Memorandum.

SubTask 2.3 - Identification and Evaluation of Socioeconomic and Demographic Impacts

After receiving further guidance and comments from the Study Commission, the Project Team will utilize the approved methodology and/or techniques to identify and evaluate the socioeconomic and demographic impacts to different economic sectors in areas where water supply alternatives would be or are located.

2.3.1 Identification of Impact Areas - Determine the areas of the State, down to the County level, that will be impacted by each water supply alternative (i.e., Basin of Origin).

2.3.2 Identification of Impacts - Once the impacted area has been identified, determine the types of short-term and long-term, positive and negative impacts that each area may experience, and the economic sectors that may be impacted. Economic sectors examined will include, but not be limited to, landowners, agricultural and natural resources, commercial business, industrial facilities, and taxing entities. Impacts measured will include, but not be limited to direct and secondary losses and/or gains in regional output, regional value-added, employment, local and state sales tax, property taxes, population, and other variables unique to a specific region. To the greatest extent possible, the Project Team will seek to quantify all of the identifiable economic, demographic, and social impacts. However, some social impacts, such as the cultural impact to a community due to the development of a reservoir for water supply, may not be quantifiable. In this case and where possible, qualitative data will be utilized to identify and measure the impact.

2.3.3 Analysis of Impacts - Once the impacts from the proposed water supply have been identified, utilize computer software to calculate the projected economic effect of each impact. The Project Team will likely utilize the IMPLAN software package in quantifying the economic impact. The IMPLAN software applies Input-Output Analysis as a means of examining relationships within an economy. This software captures monetary market transactions for consumption in a given time period using actual data from local economies. Using both descriptive and predictive modeling, team members will calculate the multipliers applicable to each impact. A multiplier, named for the multiplicative effect that takes place in an economy following some initial stimulus, are used to determine the economic effect of an impact. Utilizing the multiplier enables the calculation of the direct, indirect, and induced benefits or costs of an activity, resulting in the quantification of the identified impact.

2.3.4 Calculation of the Net Economic Impact - Once each impact has been identified, calculate the net economic impact of the water supply alternative. In performing this task, consider positive and negative impacts to the Basin of Origin and determine the total net economic impact.

2.4 - Draft Report

2.4.1 **Deliverable 2.4A:** Develop a draft report and deliver report to the Study Commission, along with all associated tables, schedules, and/or data files. The draft report will detail the results of the literature review and the results of the identification and evaluation of the socioeconomic and demographic impacts to each water supply's Basin of Origin. Finally, the draft report will provide any recommendations for further analyses, including a draft scope of work, as deemed necessary by the Project Team.

2.4.2 Study Commission QA/QC. (Project Team will assist Commission)

2.5 – Finalize Draft Task Report

Deliverable 2.4B: Make appropriate changes and provide the Study Commission with the Final Report. After completion of the Final Report, make a public presentation of the final report results, if requested by the Study Commission.

Task 3. Administrative Tasks

The administrative expense budget includes costs for commission member's travel, publication and posting of legal notices, postage for mailing, and copy expense to carry out the Legislative charges in Senate Bill 3, Section 4.04, of the 80th Legislative Session and the Scope of Work as published on pages 8838 through 8844 of Volume 33, Number 43, of the Texas Register Published on October 24, 2008.

Travel expenses include mileage to regional meetings and airline travel to Austin. Publication of legal notices includes the cost for legal notice publication in newspapers in Region C and Region D as well as posting cost in County Clerk's offices in Region C and Region D. Postage expense included mailing cost for packets of information for meetings, correspondence to TWDB, and estimated overnight delivery expense. Copy expense includes estimated expense for copying documents. Cost for staff time of Contract Administrator for either Region C or Region D was not included in administrative expense.

SubTask 3A - Phase I Administrative Tasks

Administrative tasks to total $15,000.

SubTask 3B - Phase II Administrative Tasks

Administrative tasks to total $45,000.

Task 9 Deliverables: Legal notices, mailings and copies. Interim reports to the Texas Legislature and final report to the Governor, Lieutenant Governor, and Speaker of the House of Representatives due December 1, 2010.

EXHIBIT C
TASK AND EXPENSE BUDGETS

TASK BUDGET

TASK	DESCRIPTION	Phase I	Phase II	TOTAL
1	Water Supply Alternatives	$311,671		$311,671
2	Socioeconomic Impact Analysis	$128,329		$128,329
3A	Administrative Phase I	$ 15,000		$15,000
3B	Administrative Phase II		$ 45,000	$45,000
Total		$455,000	$ 45,000	$500,000

EXPENSE BUDGET

CATEGORY	Phase I	Admin	TOTAL
Salaries & Wages[1]	$71,260	$0	$71,260
Fringe[2]	$21,642	$0	$21,642
Travel	$15,000	$0	$15,000
Other Expenses[3]	$3,000	$51,618	$54,618
Subcontract Services	$220,000	$0	$220,000
Overhead[4]	$90,735	$0	$90,735
Commission Member Travel[5]	$0	$8,382	$8,382
Profit	$18,363	$0	$18,363
TOTAL	$440,000	$60,000	$500,000

[1] Salaries and Wages is defined as the cost of salaries of engineers, draftsmen, stenographers, surveymen, clerks, laborers, etc., for time directly chargeable to this contract.

[2] Fringe is defined as the cost of social security contributions, unemployment, excise, and payroll taxes, employment compensation insurance, retirement benefits, medical and insurance benefits, sick leave, vacation, and holiday pay applicable thereto.

[3] Other Expenses is defined to include expendable supplies, communications, reproduction, postage, and costs of publishing legal notices.

[4] Overhead is defined as the costs incurred in maintaining a place of business and performing professional services similar to those specified in this contract. These costs shall include the following:

- Indirect salaries, including that portion of the salary of principals and executives that is allocable to general supervision;
- Indirect salary fringe benefits;
- Accounting and legal services related to normal management and business operations;
- Travel costs incurred in the normal course of overall administration of the business;
- Equipment rental;
- Depreciation of furniture, fixtures, equipment, and vehicles;
- Dues, subscriptions, and fees associated with trade, business, technical, and professional organizations;
- Other insurance;
- Rent and utilities; and
- Repairs and maintenance of furniture, fixtures,

[5] Commission Member Travel Expenses is defined as eligible travel expenses incurred by Study Commission members that cannot be reimbursed by any other entity, political subdivision, etc.

Exhibit 1
FIRST AMENDED SCOPE OF WORK
Additional Phase 2 Tasks
Study Commission on Region C Water Supply
TWDB Contract 0904830918

SB3 Section 4.04 Charge 1: Review the water supply alternatives available to the Region C Regional Water Planning Area, including obtaining additional water supply from Wright Patman Lake, Toledo Bend Reservoir, Lake Texoma, Lake O' the Pines, other existing and proposed reservoirs, and groundwater;

Wright Patman Lake

1.1. Estimate what volume of water is available from Wright Patman after giving consideration to existing water rights holders, anticipated local needs over the term of a contract period, unexpected local need and retained local surplus supply for drought protection. This will be accomplished through discussions with Texarkana, Riverbend Water Resources, International Paper, other local entities to verify the estimated 57,500 AFY in future local needs. The 2006 Region D demand projections will be used as a baseline and updated if needed (projections for the 2011 Region D Regional Water Plan have not changed from the 2006 RWP). An initial meeting with current stakeholders will be part of this task.

1.2. Estimate how much water is available from existing water rights holders for sale or contract. Identify which parties would be selling or contracting water. This will be accomplished through discussions with Texarkana, Riverbend Water Resources, International Paper, and other local entities to determine what amount of water would be available from the existing contracts that are not currently being utilized. Questions to be answered include: Is Texarkana willing to sell part of the rights that it already has committed to International Paper? Will International Paper allow the sub-contracting of their existing contracted water rights? Are there discharge implications to International Paper due to these water rights being utilized? What other implications are present with the use of already contracted water rights? What will the costs of the contracts be? How is the money divided? Will all local water needs still be met? An initial meeting with current stakeholders will be part of this task.

1.3. Determine what operating level of Wright Patman is reasonable due to the White Oak Creek Wildlife Management Area (WOCWMA) and determine how operations could be modified. This will be accomplished through discussions with Texarkana, Texas Parks and Wildlife Department, and the United States Army Corp of Engineers. Questions to be answered from discussions and previous literature review include: Is the elevation of 228.64 reasonable for water supply and operations of WOCWMA? Is an elevation of 230 the maximum elevation without impacting or slightly impacting the WOCWMA? Could Wright Patman be operated at an elevation of 235-240? What would the impacts and implications be for the higher elevation (mitigation, Congressional approval, cost, levees and structures, etc.)? Obtain letter from the TWDB verifying what the maximum elevation suggested by the TPWD to allow for the management of WOCWMA. Obtain USACE estimates for the mitigation impacts (what ratio will be utilized) if the WOCWMA is impacted. An initial meeting with TPWD and USACE is planned as part of this task.

1.4. Estimate what is the expected yield of Wright Patman under the most reasonably achievable operating scenarios. This task will include reviewing the 2003 USACE report on the yield of Wright Patman and performing additional yield modeling scenarios elevations recommended in Tasks 1.1 – 1.3. The additional yield analysis will be performed utilizing the approved water availability model (WAM) from the Region D Water Planning Group. Additionally, discussions with Texarkana, TPWD, USACE, and others will be part of this task.

1.5. Estimate for each operating scenario considered what additional information must be gathered to allow consideration of this strategy as a reasonably equivalent alternative to Marvin Nichols. Estimate what amount is equivalent to Marvin Nichols (620,000 AFY or 480,000 AFY). Questions to be answered include: Should the 120,000 AFY for local use be included in the amount of water that is equivalent to Marvin Nichols? What are the implications of these equivalent alternatives (amount of yield available, associated costs for pipeline, mitigation acreage, mitigation cost, etc)? What other alternatives are available in conjunction with Wright

Patman (Lake O' the Pines)? How do the combination of those alternatives compare to the equivalent to Marvin Nichols?

1.6. Prepare cost estimates for Wright Patman conveyance (pipeline, intake structure and pump station, permitting, etc.) Costs for EIS, water rights, IBT, congressional approval, pipeline, intake pump station, etc. will also be estimated. The existing Region C and D cost estimates will be utilized as a baseline and updated using the current TWDB approved costing procedures used in the development of the 2011 regional water plans.

Lake O' the Pines

1.7. Estimate what volume of water is available from Lake O' the Pines including permitted water that has not been contracted below 228.5 feet msl. This will be accomplished through discussions with Northeast Texas Municipal Water District (NETMWD).

1.8. Determine if there are any other considerations for existing water rights holders (including contracts that may not be fully utilized), anticipated local needs over the term of a contract period, unexpected local need, and retained local surplus supply for drought protection. This will be accomplished through discussions with NETMWD and possible other entities that are currently contracting for water with NETMWD.

1.9. Prepare cost estimates for Lake O' the Pines conveyance (pipeline, intake structure and pump station, permitting, etc.) A question to be answered: Does the USACE already own the property to the top of the flood pool? This will be accomplished through discussions with the USACE. Costs for EIS, water rights, IBT, congressional approval, pipeline, intake pump station, etc. will be estimated. The existing Region C and D cost estimates will be utilized as a baseline and updated using the current TWDB approved costing procedures used in the development of the 2011 regional water plans.

1.10. Determine if there is additional flood storage over the elevation of 228.5 feet that could be reallocated to water supply. This will be accomplished through additional discussions with NETMWD and the USACE.

1.11. Determine if congressional approval is needed and describe the process involved. Above 228.5 congressional approval will be needed if more than 50,000 AFY is requested for reallocation. If under 50,000 AFY, the local USACE can approve the reallocation. The process to be followed is in the TWDB report on the reallocation of flood flows.

SB3 Section 4.04 Charge 2B: In connection with the review in (Charge) 1, analyze the socioeconomic effect on the area where the water supply is located that would result from the use of the water to meet the water needs of the Region C Regional Water Planning Area, including in connection with the Region C use of water from Wright Patman Lake, the effect on water availability in that lake and the effect on industries relying on that water availability.

2B.1. Questions to be answered include: What industries rely on water from Wright Patman Lake? Which industries, if any, will be affected, e.g. International Paper, if that water is used by Region C?

Exhibit 2
FIRST AMENDED EXHIBIT C
TASK AND EXPENSE BUDGETS

TASK BUDGET

TASK	DESCRIPTION	Phase I	Phase II	TOTAL
1	Water Supply Alternatives	$311,671.00	$0.00	$311,671.00
2	Socioeconomic Impact Analysis	$128,329.00	$0.00	$128,329.00
3A	Administrative Phase I	$ 15,000.00	$0.00	$15,000.00
3B	Administrative Phase II	$0.00	$ 45,000.00	$45,000.00
4	Wright Patman Tasks (Phase 2, Scope Items 1.1 – 1.6)	$0.00	$53,660.00	$53,660.00
5	Lake O' the Pines Tasks (Phase 2, Scope Items 1.7 – 1.11)	$0.00	$37,540.00	$37,540.00
6	Industry Effects (Phase 2, Scope Item 2B.1)	$0.00	$5,000.00	$5,000.00
Total		$455,000.00	$141,200.00	$596,200.00

EXPENSE BUDGET

CATEGORY	Phase I	Phase II	Admin	TOTAL
Salaries & Wages[1]	$71,260.00	$30,470	$0.00	$101,730.00
Fringe[2]	$21,642.00	$9,254	$0.00	$30,896.00
Travel	$15,000.00	$2,500	$0.00	$17,500.00
Other Expenses[3]	$3,000.00	$0.00	$51,618.00	$54,618.00
Subcontract Services	$220,000.00	$3,400	$0.00	$223,400.00
Overhead[4]	$90,735.00	$38,797	$0.00	$129,532.00
Commission Member Travel[5]	$0.00	$0.00	$8,382.00	$8,382.00
Profit	$18,363.00	$11,779	$0.00	$30,142.00
TOTAL	$440,000.00	$96,200.00	$60,000.00	$596,200.00

[1] Salaries and Wages is defined as the cost of salaries of engineers, draftsmen, stenographers, surveymen, clerks, laborers, etc., for time directly chargeable to this contract.

[2] Fringe is defined as the cost of social security contributions, unemployment, excise, and payroll taxes, employment compensation insurance, retirement benefits, medical and insurance benefits, sick leave, vacation, and holiday pay applicable thereto.

[3] Other Expenses is defined to include expendable supplies, communications, reproduction, postage, and costs of publishing legal notices.

[4] Overhead is defined as the costs incurred in maintaining a place of business and performing professional services similar to those specified in this contract. These costs shall include the following:

- Indirect salaries, including that portion of the salary of principals and executives that is allocable to general supervision;
- Indirect salary fringe benefits;
- Accounting and legal services related to normal management and business operations;
- Travel costs incurred in the normal course of overall administration of the business;
- Equipment rental;
- Depreciation of furniture, fixtures, equipment, and vehicles;
- Dues, subscriptions, and fees associated with trade, business, technical, and professional organizations;
- Other insurance;
- Rent and utilities; and
- Repairs and maintenance of furniture, fixtures,

[5] Commission Member Travel Expenses is defined as eligible travel expenses incurred by Study Commission members that cannot be reimbursed by any other entity, political subdivision, etc.

Appendix E: February 13, 2008 Meeting

Agenda

Minutes

STUDY COMMISSION
ON REGION C WATER SUPPLY

OPEN PUBLIC MEETING

FEBRUARY 13, 2008
1:00 P.M.

The Meeting will be held at:

University of Texas at Dallas
Eugene McDermott Library
McDermott Suite, 4th Floor
800 West Campbell Road
Richardson, Texas 75080

AGENDA

I. Call to Order

II. Welcome/Introduction

III. Review of Legislative Charges and Role of TWDB

IV. Discussion and Possible Selection of Presiding Officer

V. Discussion and Decision on Developing Bylaws

VI. Discussion Relating to Development of Scope of Work, Timeline, and Selection of Consultant

VII. Open Floor for Member Discussion of Other Topics

VIII. Discussion/Selection of Date, Time, and Location of Next Meeting

IX. Public Comment

X. Adjourn

Study Commission on Region C Water Supply

MINUTES OF AN OPEN PUBLIC MEETING

February 13, 2008

The Study Commission on Region C Water Supply (Study Commission) met in an open public meeting on Wednesday, February 13, 2008, at 1:00 P.M. The meeting was held at the University of Texas at Dallas' Eugene McDermott Library located at 800 West Campbell Road, Richardson, Texas. Notice of the meeting was legally posted.

I. CALL TO ORDER

Senator Florence Shapiro called the meeting to order at approximately 1:00 P.M.

II. WELCOME/INTRODUCTION

Senator Shapiro introduced each member of the Study Commission. The following members were in attendance:

The Honorable Florence Shapiro	Mr. Thomas Duckert
The Honorable Stephen Frost	Mr. Richard LeTourneau
The Honorable Jodie Laubenberg	Mr. Jim Parks

Kevin Ward, Carolyn Brittin, Angela Masloff, and Kathleen Garrett of the Texas Water Development Board (TWDB) were also in attendance.

III. REVIEW OF LEGISLATIVE CHARGES AND ROLE OF THE TWDB

Senator Shapiro reviewed the legislative charges created by Senate Bill 3. Mr. Ward expanded on the role of the TWDB as the staffing and funding source for the Study Commission.

IV. DISCUSSION OF AND POSSIBLE SELECTION OF PRESIDING OFFICER

It was the consensus of the Study Commission members to select Senator Florence Shapiro and Representative Stephen Frost as co-presiding officers and Representative Jodie Laubenberg as Secretary.

V. DISCUSSION AND DECISION ON BYLAWS

The Study Commission reviewed the draft Bylaws and agreed to revise the Bylaws to reflect the following changes:

- Election of co-presiding officers rather than a Presiding Officer and a Vice Presiding Officer
- Designated alternates must be from the member's respective region
- Notice of Study Commission meetings will be provided more than 72 hours in advance
- Study Commission records will be maintained in both Region C at the North Texas Municipal Water District, as well as in Region D at the Northeast Texas Municipal Water District
- Section 4 – Alternate Resolution will also include "Section 3" and read "If a favorable vote cannot be achieved in accordance with Section 2 or Section 3 of this article..."
- Article X will read "properly" posted meeting rather than "property"
- Article XII will read "...available information that has been developed by a qualified professional..." rather than "...all available information that has been developed by a qualified professional..."

It was the consensus of the Study Commission members that Jim Parks redraft the Bylaws and distribute the revised Bylaws to the members for review prior to the next meeting.

VI. DISCUSSION RELATING TO THE DEVELOPMENT OF SCOPE OF WORK, TIMELINE, AND SELECTION OF CONSULTANT

It was the consensus of the Study Commission members to select Jim Parks and Thomas Duckert to work with TWDB staff to develop a scope of work to be presented at the next meeting. Senator Shapiro requested the TWDB review the proposed work that would require outside consultants. Jim Parks suggested that the scope of work include determining the benefit of using a facilitator.

VII. OPEN FLOOR FOR MEMBER DISCUSSION OF OTHER TOPICS

Representative Frost expressed his appreciation for the collaborative work on amending the Bylaws.

VIII. DISCUSSION/SELECTION OF DATE, TIME, AND LOCATION OF NEXT MEETING

Senator Shapiro agreed to coordinate member schedules through the use of new software for the selection of future meeting dates and times.

IX. PUBLIC COMMENT

Public comments were received from the following individuals:

a. Red Birdsong
b. Wade Tyson
c. Tommy Spruill
d. Barney Cribbs

X. ADJOURN

There being no further business, the meeting of the Study Commission on Region C Water Supply adjourned at approximately 2:20 p.m.

SENATOR FLORENCE SHAPIRO
Co-Presiding Officer

REPRESENTATIVE STEPHEN FROST
Co-Presiding Officer

Appendix F: July 29, 2008 Meeting

Agenda

Minutes

Presentation: Scope of Work Development by Thomas Duckert and Jim Parks with Kevin Ward

Presentation: Summary of 2006 Region C Regional Water Plan by Kevin Ward

Handout: Bylaws

STUDY COMMISSION ON REGION C WATER SUPPLY

OPEN PUBLIC MEETING

Tuesday, July 29, 2008
1:00 P.M.

The Meeting will be held at:

Texarkana College
Computer Technology Building
Levi Hall Room
2500 North Robison Road
Texarkana, Texas 75599

AGENDA

I. Call to Order

II. Welcome/Introduction

III. Adoption of minutes of February 13, 2008 meeting

IV. Discussion and Adoption of Bylaws

V. Discussion and Adoption of Scope of Work

VI. Discussion and Authorization of Requests for Proposals

VII. Presentation from TWDB on 'Overview of 2006 Region C Water Plan'

VIII. Open Floor for Member Discussion of Other Topics

IX. Discussion/Selection of Date, Time, and Location of Next Meeting

X. Public Comment

XI. Adjourn

Study Commission on Region C Water Supply

MINUTES OF AN OPEN PUBLIC MEETING
July 29, 2008

The Study Commission on Region C Water Supply (Study Commission) met in an open public meeting on Tuesday, July 29, 2008, at 1:00 P.M. The meeting was held at the Texarkana College's Levi Hall Room in the Computer Technology Building located at 2500 North Robison Road, Texarkana, Texas. Notice of the meeting was legally posted.

I. CALL TO ORDER

Representative Stephen Frost called the meeting to order at approximately 1:00 P.M.

II. WELCOME/INTRODUCTION

Representative Frost introduced each member of the Study Commission. The following members were in attendance:

The Honorable Florence Shapiro
The Honorable Stephen Frost
Mr. Jim Parks
Mr. Thomas Duckert
Mr. Richard LeTourneau

The Honorable Jodie Laubenberg was not in attendance due to a death in the family.

Also in attendance were Carmen Cernosek from Lieutenant Governor Dewhurst's office, Travis Ransom from Senator Kevin Eltife's office. Additionally, Kevin Ward, David Meesey, and Angela Masloff of the Texas Water Development Board (TWDB) were also in attendance. The registration lists signed by guests in attendance are attached.

III. ADOPTION OF MINUTES OF FEBRUARY 13, 2008 MEETING

On a motion by Senator Florence Shapiro and a second by Thomas Duckert, the Study Commission unanimously adopted the minutes from the February 13, 2008 meeting.

IV. DISCUSSION OF AND ADOPTION OF BYLAWS

Kevin Ward of the TWDB suggested that the Bylaws be amended to clarify the role of the administrative officer in regards to applying for a grant from the TWDB.

On a motion by Senator Shapiro and a second by Richard LeTourneau, the Study Commission unanimously adopted the Bylaws with the proposed amendments.

At this time, David Nabors, a member of the public, expressed his concern regarding the title of the Commission, and the Secretary's duties to assume the duties of the Co-Presiding Officer until another Co-Presiding Officer can be elected. Representative Frost indicated that the Study Commission may consider amending the Bylaws in the future and may consider this suggestion regarding the Secretarial duties at that time.

V. PRESENTATION FROM TWDB ON OVERVIEW OF REGION C WATER PLAN

Representative Frost suggested that the meeting deviate from the posted agenda in order to hear TWDB's presentations prior to the Commission's consideration of the Scope of Work.

Mr. Ward of the TWDB gave a PowerPoint presentation on the Region C water planning process.

VI. DISCUSSION AND ADOPTION OF SCOPE OF WORK

Mr. Duckert and Mr. Parks discussed the process they used to construct the Scope of Work. Mr. Ward gave a presentation of the proposed Scope of Work and the breakdown of tasks included in that document.

On a motion by Jim Parks and a second by Tom Duckert, the Study Commission unanimously adopted the proposed Scope of Work.

VII. DISCUSSION AND AUTHORIZATION OF REQUESTS FOR PROPOSALS

On a motion by Senator Shapiro and a second by Richard LeTourneau, the Study Commission unanimously authorized preparation of the requests for proposals. It was the consensus of the Study Commission members for the Administrative Officer to complete the Request for Proposal with the help of TWDB staff.

VIII. OPEN FLOOR FOR MEMBER DISCUSSION OF OTHER TOPICS

Senator Shapiro expressed her concern over the Study Commission's timeline and suggested that the Commission meet more frequently. She also suggested that these meetings take place in the areas affected by the proposed Marvin Nichols Reservoir.

IX. DISCUSSION/SELECTION OF DATE, TIME, AND LOCATION OF NEXT MEETING

It was the consensus of the Study Commission members to schedule the next meeting in the latter part of August.

X. PUBLIC COMMENT

Public comments were received from the following individuals:

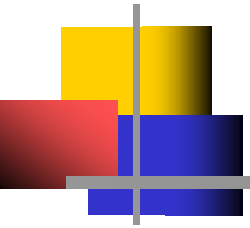
a. David Nabors
b. Mayor Jerry Boatner
c. Max Shumake
d. George Frost
e. John McConnell
f. Nancy Clements
g. Dr. Jane Morris
h. Charleen Granberry
i. Gary Cheatwood
j. Mildred Harris
k. Molly Clements Berridge

XI. ADJOURN

There being no further business, the meeting of the Study Commission on Region C Water Supply adjourned at approximately 4:00 p.m.

SENATOR FLORENCE SHAPIRO
Co-Presiding Officer

REPRESENTATIVE STEPHEN FROST
Co-Presiding Officer



Proposed Draft Scope of Work

Task 1: Identify and Summarize All Water Supply Alternatives Considered for Region C

- Task 1.1: Existing plans and studies dating to 1985 of water supply alternatives for Region C. (3rd Party)
  - Recommended Consideration: Identify alternatives prior to performing literature search (1.1.a.i)

Task 1: Identify and Summarize All Water Supply Alternatives Considered for Region C

- Task 1.2: Summarize water supply alternatives identified in Task 1.1. (3rd Party)
- Task 1.3: Identify gaps and make recommendations to Commission of additional studies needed beyond existing water supply studies. (3rd Party)

Task 1: Identify and Summarize All Water Supply Alternatives Considered for Region C

- Task 1.4: Provide background review of the 2006 Region C Regional Water Plan (RWP). (TWDB)

Task 2: Analyze Socioeconomic Impacts and the Use of Wright Patman Lake

- Task 2.1: Provide bibliography of socioeconomic studies to Commission. (3rd Party)
- Task 2.2: Request additional sources of information. (3rd Party)
- Task 2.3: List existing reports for Commission review and approval. (3rd Party)

Task 2: Analyze Socioeconomic Impacts and the Use of Wright Patman Lake

- Task 2.4: Identify and evaluate impacts to different economic sectors where water supply alternatives would be/are located. (3rd Party)

- Task 2.5: Summarize and critique the attributes, methodologies, and results of each study and recommend approach for bridging any gaps identified. (3rd Party)

Task 3: Review Water Conservation and Reuse Strategies in the 2006 Region C Regional Water Plan

Effort specific to:

- Water users with needs that included water conservation or reuse strategies (~360)
- Water users with needs that did not include conservation or reuse strategies (~20)
- Water users without needs that included conservation or reuse strategies (~45)

Task 3: Review Water Conservation and Reuse Strategies in the 2006 Region C Regional Water Plan

- Task 3.1: Tabulate specific strategies, methodologies, and assumptions for including or omitting water conservation and reuse strategies in the Region C RWP. (All Task 3 is 3rd Party)

- Task 3.2: Develop survey with Task 3.1 information for water users of interest.

Task 3: Review Water Conservation and Reuse Strategies in the 2006 Region C Regional Water Plan

- Task 3.3: Include in survey that water users review strategies listed for the entity.
- Task 3.4: Include in survey that water users consider potential for:
  - Accomplishing impacts of strategies
  - Any increase in utilization or strategy volume
  - Implementation and estimated volume of additional conservation or reuse not included in 2006 Region C Water Plan

Task 3: Review Water Conservation and Reuse Strategies in the 2006 Region C Regional Water Plan

- Task 3.5: Transmit survey by mail and follow up with water users.
- Task 3.6: Contact water user by telephone if no response after deadline.
- Task 3.7: Develop comparison of strategies in 2006 Region C Water Plan and strategies in survey.

Task 3: Review Water Conservation and Reuse Strategies in the 2006 Region C Regional Water Plan

- Task 3.8: Provide report of process and results of water user survey. Summaries and literature reviews duplicative of content of 2006 Region C Water Plan should be avoided.

Task 4: Policy Statement from USCOE Regarding Mitigation Requirements

- Task 4.1: TWDB to request USCOE to present to Study Commission on
  - Impacts of "Final Compensatory Mitigation Rule" on new reservoir projects;
  - Policy statement regarding procedure to determine amount and location of mitigation acreage and compliance measures to be taken. (USCOE)

Task 4: Policy Statement from USCOE Regarding Mitigation Requirements

- Task 4.2: Study Commission may need to redirect efforts dependent upon results of Task 4.1. (USCOE and 3rd Party as necessary)

Task 5: Policy Statement from USCOE Regarding Shared Mitigation Burdens

- Task 5.1: TWDB to request the USCOE to present to Study Commission on
  - Performance standards and criteria for mitigation banks, in-lieu programs, and permittee responsible compensatory mitigation
  - Identification of suitable mitigation sites within Region D.

Task 5: Policy Statement from USCOE Regarding Shared Mitigation Burdens

- Task 5.2: Study Commission may need to redirect efforts dependent upon results of Task 5.1. (USCOE and 3rd Party as necessary)

Task 6: Review Innovative Methods of Compensation to Affected Property Owners

- Task 6.1: Literature search and summary of public works projects using innovative compensation methods. (3rd Party)
- Task 6.2: Obtain professional input on innovative compensation. (3rd Party)
- Task 6.3: Review information received. (Study Commission)

Task 7: Evaluate Acreage Impacted by Construction of Proposed New Reservoirs in 2006 Region C Regional Water Plan

Evaluation to specifically include:

- Lake Fastrill
- Lake Ralph Hall
- Lower Bois d'Arc Reservoir
- Marvin Nichols Reservoir

Task 7: Evaluate Acreage Impacted by Construction of Proposed New Reservoirs in 2006 Region C Regional Water Plan

- Task 7.1 (all 3rd Party):
  - From literature search in Task 1.1.a.i, summarize methodologies and estimates of surface acreage impacts.
  - Develop minimum number of surface acreage impacts using alternative methodologies if appropriate.
  - Summarize findings and alternative methodologies and present to Commission for input.

Task 7: Evaluate Acreage Impacted by Construction of Proposed New Reservoirs in 2006 Region C Regional Water Plan

- Task 7.1 (cont.):
  - Based on Commission's input, determine if additional analyses using alternative methodologies to evaluate surface acreage impacts should be performed.
  - Develop draft scope of work for additional analyses needed.

Task 8: Locate Proposed Reservoir and Mitigation Sites with Resolution to Determine Land Ownership

- Task 8.1: Land ownership determination (3rd party)
  - Determine if digitized land ownership records exist for affected counties.
  - Determine time and cost to convert records to digital format if necessary.
  - Determine time and cost to produce land ownership map for each reservoir project.

Task 8: Locate Proposed Reservoir and Mitigation Sites with Resolution to Determine Land Ownership

- Task 8.2: Satellite Imagery (3rd Party)
  - Determine if satellite imagery exists for each reservoir site in the Region C Water Plan.
  - Determine if satellite imagery exists for possible mitigation sites from Task 4.
  - Determine time and cost to acquire imagery if it does not exist.

Task 8: Locate Proposed Reservoir and Mitigation Sites with Resolution to Determine Land Ownership

- Task 8.3: Consideration of Task 8.1 and 8.2 Information (Study Commission)
  - If compatible land ownership data and satellite imagery exist, consider completion of Task.
  - If compatible ownership records do not exist, consider producing a land ownership map to overlay on satellite imagery.
  - Study Commission may need to redirect efforts given cost or time constraints.

Task 8: Locate Proposed Reservoir and Mitigation Sites with Resolution to Determine Land Ownership

- Task 8.4: Merge Data as Directed (3rd Party)
  - Prepare electronic and printed maps of proposed reservoir sites, proposed mitigation sites, and land ownership for each reservoir in 2006 Region C Water Plan.
  - Provide one copy to each member of the Commission.

Senate Bill 3 Study Commission on Region C Water Supply

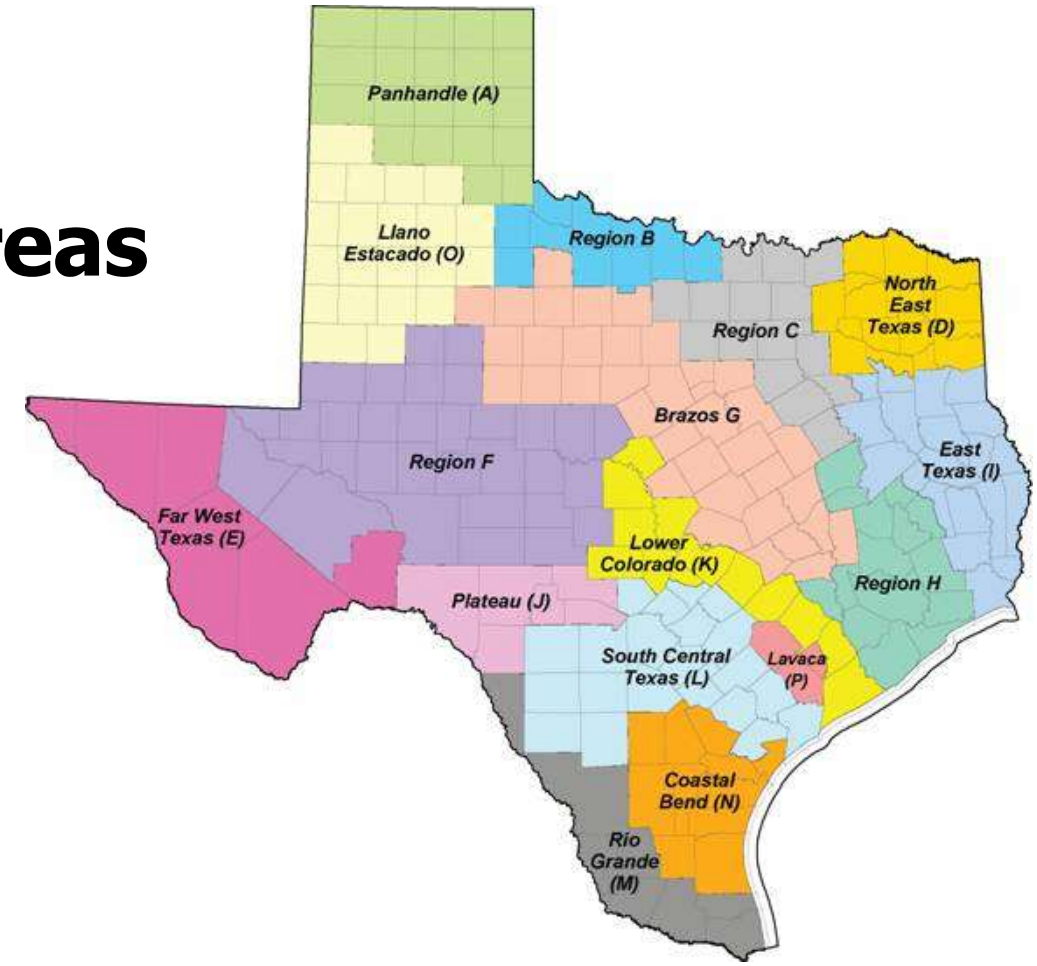
J. Kevin Ward
Executive Administrator
Texas Water Development Board
July 29, 2008

Regional Water Planning

- Established in 1997 in Response to Drought of 1995-’96
- Paradigm Shift from State to Regional Plans
- Plan for 50-year Water Needs Based on Drought of Record Conditions

Regional Water Planning

16 Planning Areas



11 Interests Represented on Each Planning Group

- Member of the Public at Large
- Counties
- Municipalities
- Industries
- Agricultural Interests
- Environmental Interests
- Small Business
- Electric Generating Utilities
- River Authorities
- Water Districts
- Water Utilities

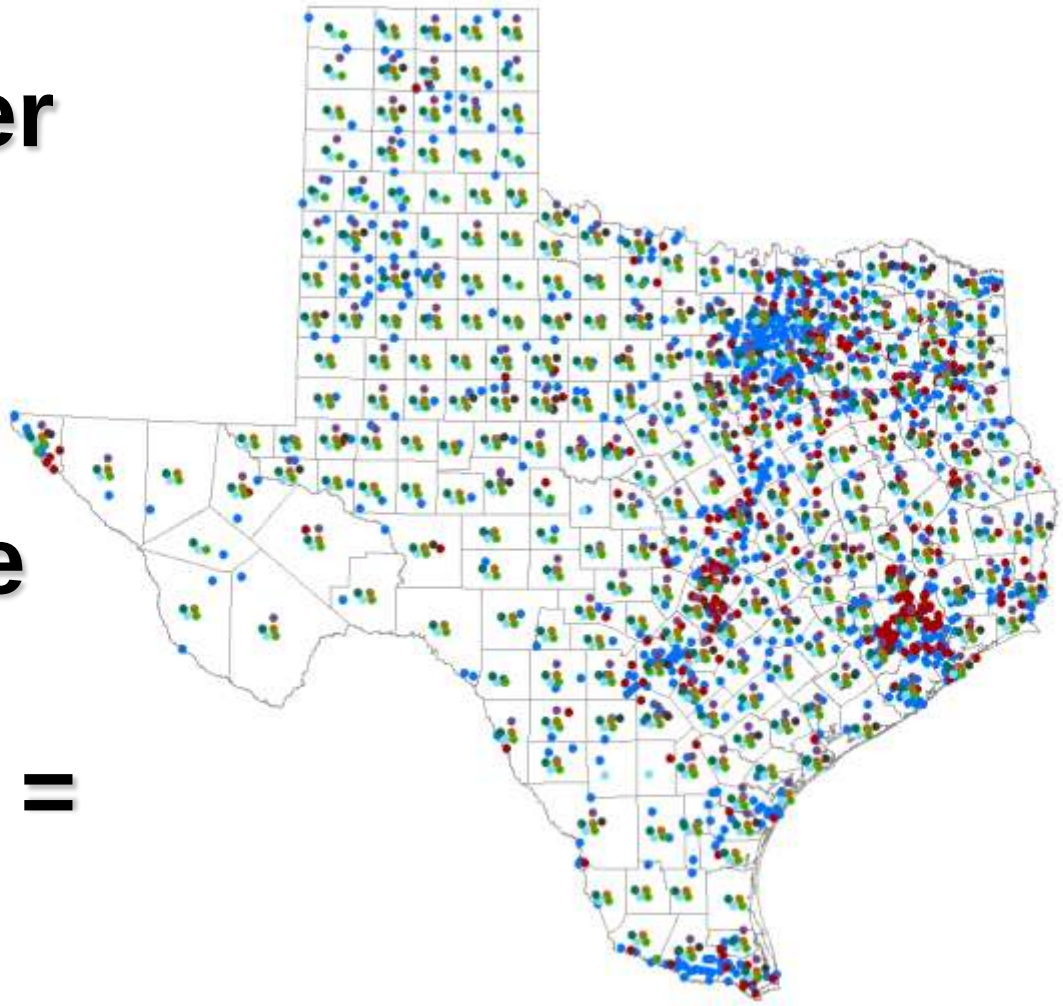
Basic Steps in Water Planning

- Project population
- Project water demands
- Determine existing supplies
- Determine future surplus or needs
- Evaluate and select/recommend water management strategies

Level of Analysis

Water User Groups = 2,564

Wholesale Water Providers = 161



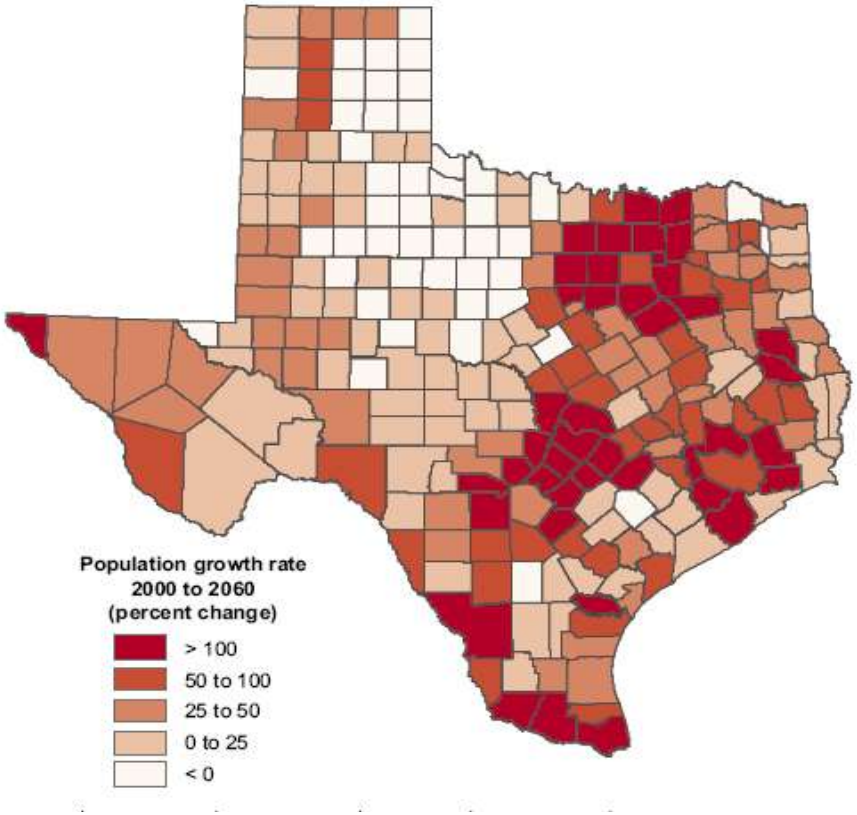
Cycles of Planning and Costs

- **Cycle 1 – 2001 Regional Water Plans (16)**
  - **Cost = $20,000,000**
- **Cycle 2 – 2006 Regional Water Plans (16)**
  - **Cost = $16,000,000**
- **Cycle 3 – 2011 Regional Water Plans (16)**
  - **Projected Cost = $16,000,000**

Why We Plan

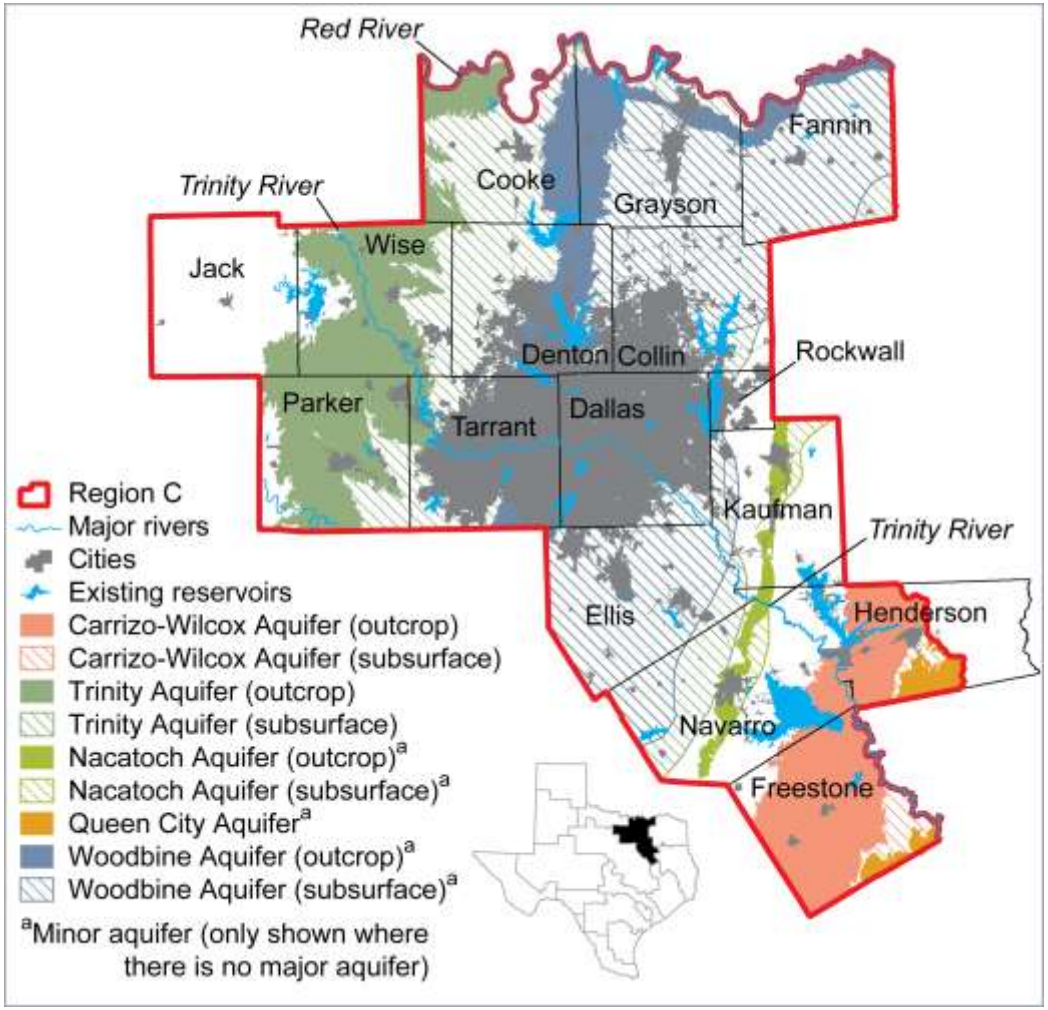
Drought

Population Growth

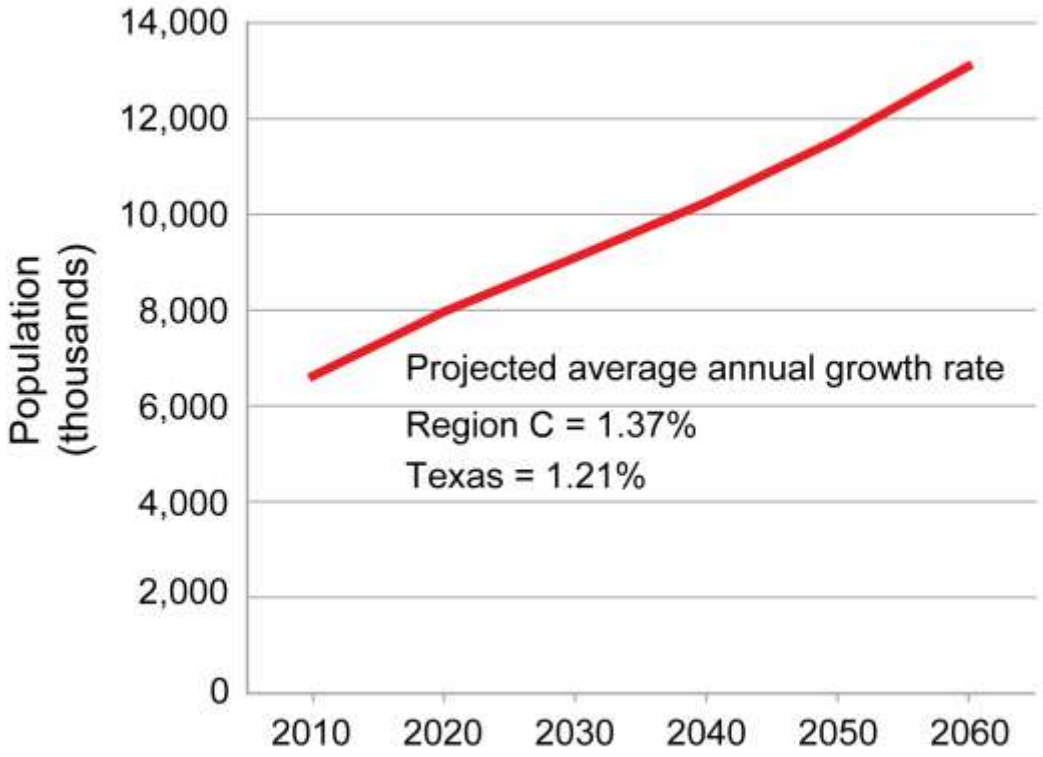


Region C: Background

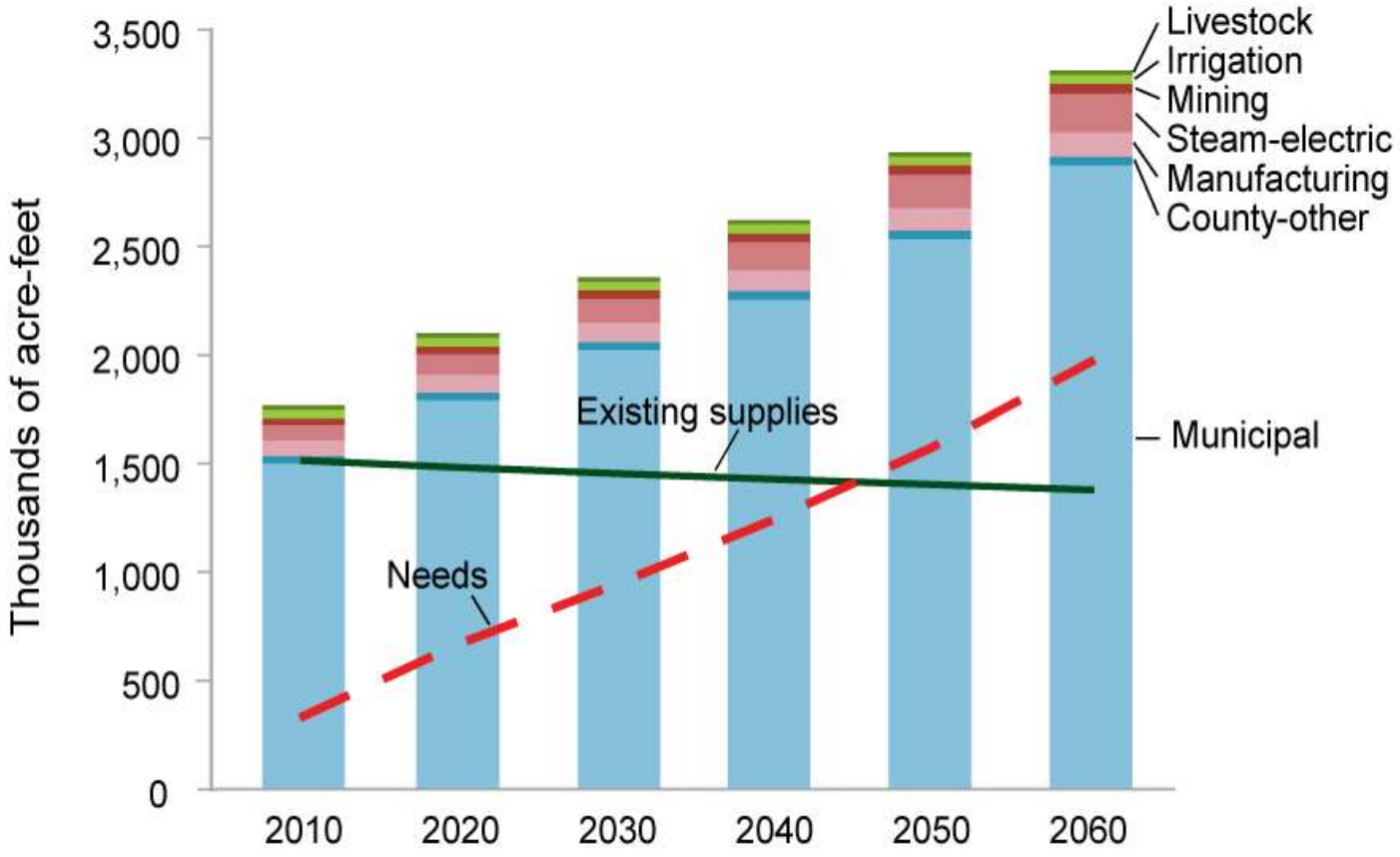
- Region C represents the Dallas-Fort Worth Metroplex and surrounding area
- All or part of 16 counties
- About ¼ of Texas' population
- 85% of water use for municipal
- 90% is surface water



Region C: Projected Population



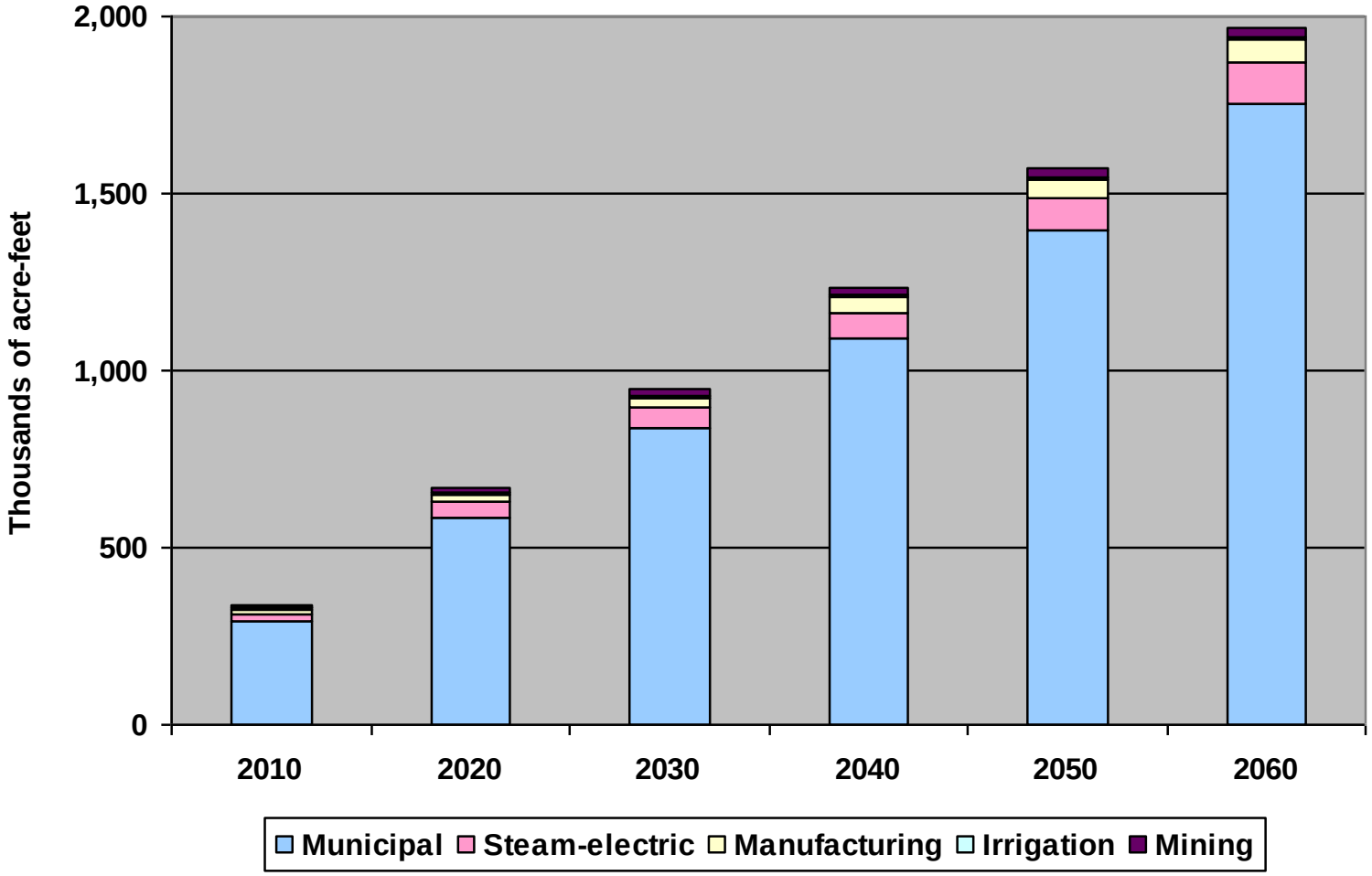
Region C: Water Demand



Region C: Existing Supplies

- 2010 Total = 1.51 million ac-ft/yr
- 2060 Total = 1.38 million ac-ft/yr
  - **Surface Water – 90%**
  - **Groundwater – 5%**
  - **Reuse – 5%**

Region C: Future Needs



Region C: Impacts of Inadequate Water Supply

- Projected 2060 employment would be reduced by 700,000 jobs (17%)
- Projected 2060 income would be reduced by $58.8 billion (21%)
- Projected 2060 population would be reduced by one million (7%)

Region C: Cycles of Planning and Costs

- Cycle 1 – 2001 Regional Water Plan
  - **Cost = $1,000,000**
- Cycle 2 – 2006 Regional Water Plan
  - **Cost = $2,000,000**
- Cycle 3 – 2011 Regional Water Plan
  - **Projected Cost = $900,000+?**

Region C: Types of Alternatives Considered

- Water conservation and drought response planning
- Reuse of wastewater
- Existing reservoir system operation
- Connecting existing supplies
- Conjunctive use of groundwater and surface water
- Reallocation of reservoir storage
- Voluntary redistribution of water resources
- Voluntary subordination of water rights
- Enhancement of yields of existing sources
- Control of naturally occurring chlorides
- Brush control
- Precipitation Enhancement
- Desalination
- Water rights cancellation
- Aquifer storage and recovery
- Development of new surface water supplies
- Development of new groundwater supplies
- Inter-basin transfers
- Renewal of contracts
- Temporary overdrafting
- Groundwater conservation districts
- Assumed reallocation of groundwater
- Supplemental groundwater wells
- Sediment control structures

Region C: Evaluation Methodology

- Steps:
  - Identify
  - Evaluate
  - Select/Recommend
- Evaluation Criteria:
  - Reliability
  - Quantity
  - Cost
  - Impacts
  - Consistency with local plans

Region C: Potentially Feasible Strategies Supplying >25K ac-ft

- Conservation and Reuse (including reuse projects listed on the following slides): 1,180,067
- Toledo Bend Reservoir: 600,000
- Gulf of Mexico with Desalination: Unlimited
- Marvin Nichols Reservoir: 489,840
- Wright Patman Lake System: 390,000

Region C: Potentially Feasible Strategies Supplying >25K ac-ft

- Lake Texoma Not Yet Authorized – Blend: 220,000 ac-ft
- Lake Texoma – Desalination: 207,000
- Sam Rayburn Reservoir/B.A. Steinhagen: 200,000
- Lake Livingston: 200,000
- Ogallala Groundwater (Roberts County): 200,000

Region C: Potentially Feasible Strategies Supplying >25K ac-ft

- TRWD 3rd Pipeline and Reuse: 188,765
- Wright Patman Lake – Raise Flood Pool: 180,000
- Oklahoma Water: 165,000 or more
- Lower Bois d'Arc Creek Reservoir: 123,000
- Lake Fork Reservoir: 120,000

Region C: Potentially Feasible Strategies Supplying >25K ac-ft

- George Parkhouse Lake (North): 118,960
- Lake Palestine: 114,337
- Lake Texoma: Blend: 113,000
- Lake Fastrill: 112,100
- George Parkhouse Lake (South): 108,480

Region C: Potentially Feasible Strategies Supplying >25K ac-ft

- Lake Texoma Not Yet Authorized – Desalination: 105,000
- East Fork Reuse Project: 102,000
- Wright Patman Lake – Texarkana: 100,000
- Carrizo-Wilcox Groundwater (Brazos County): 100,000
- DWU Cypress River Basin Supplies (Lake O' the Pines): 89,600

Region C: Potentially Feasible Strategies Supplying >25K ac-ft

- Return Flows above Lakes: 79,605
- DWU Southside (Lake Ray Hubbard) Reuse: 67,253
- DWU Lewisville Lake Reuse: 67,253
- Tehuacana Reservoir: 56,800
- GTUA Lake Texoma Already Authorized: 56,500

Region C: Potentially Feasible Strategies Supplying >25K ac-ft

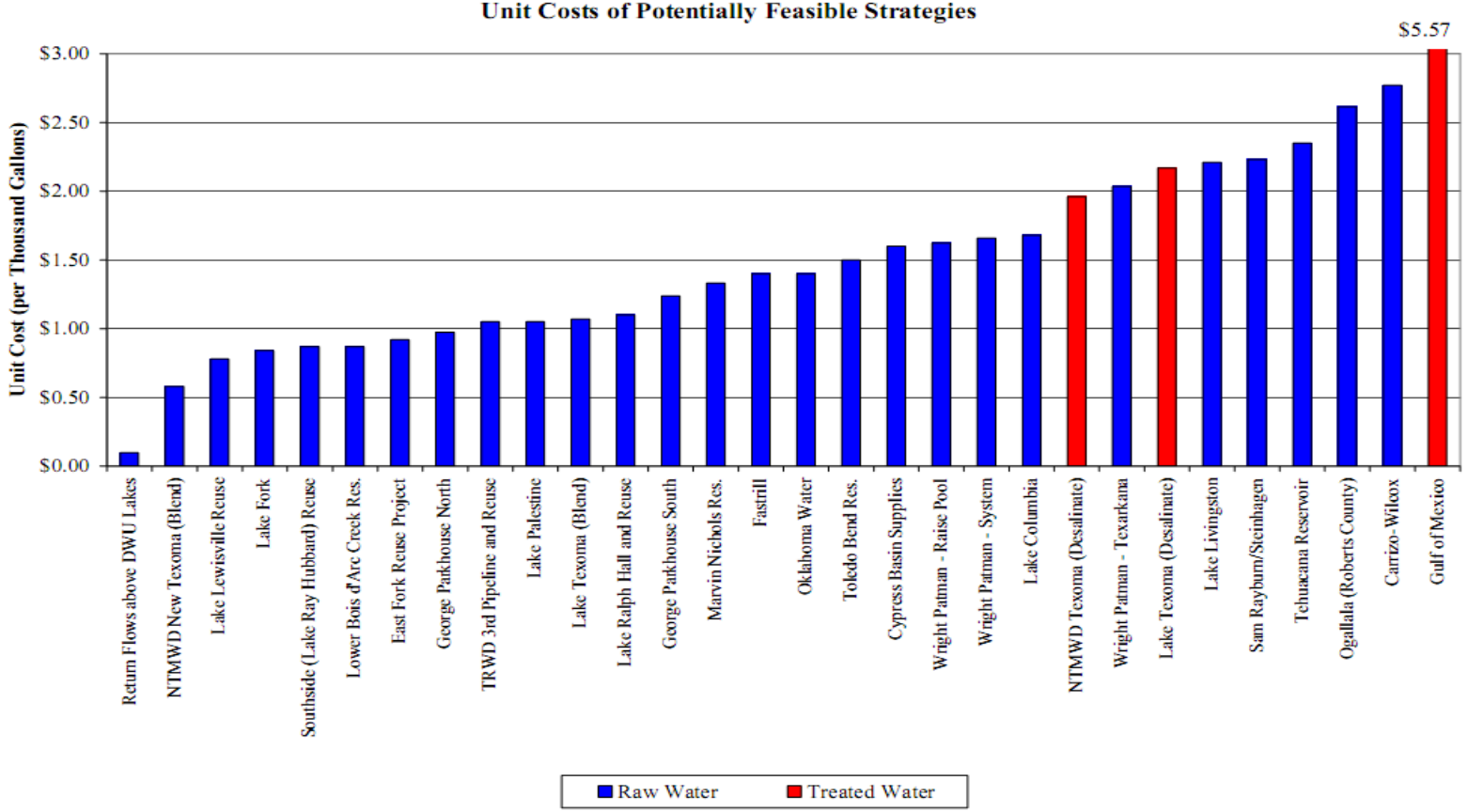
- Carrizo-Wilcox Groundwater (Brazos County): 50,000
- Upper Sabine River Basin: 50,000
- TRA Ellis County Reuse: 40,000
- Wilson Creek Reuse: 35,941
- Lake Columbia: 35,800

Region C: Potentially Feasible Strategies Supplying >25K ac-ft

- Lake Ralph Hall: 32,940
- Additional Lake Palestine: 30,000
- TRA Contract with Irving for Reuse: 28,000
- TRWD Purchase from Brazos River Authority: 28,000
- Ellis County Project: 26,582
- NTMWD/GTUA Supply to North Collin and South Grayson Counties: 26,015

Region C: Unit Costs of Potentially Feasible Strategies

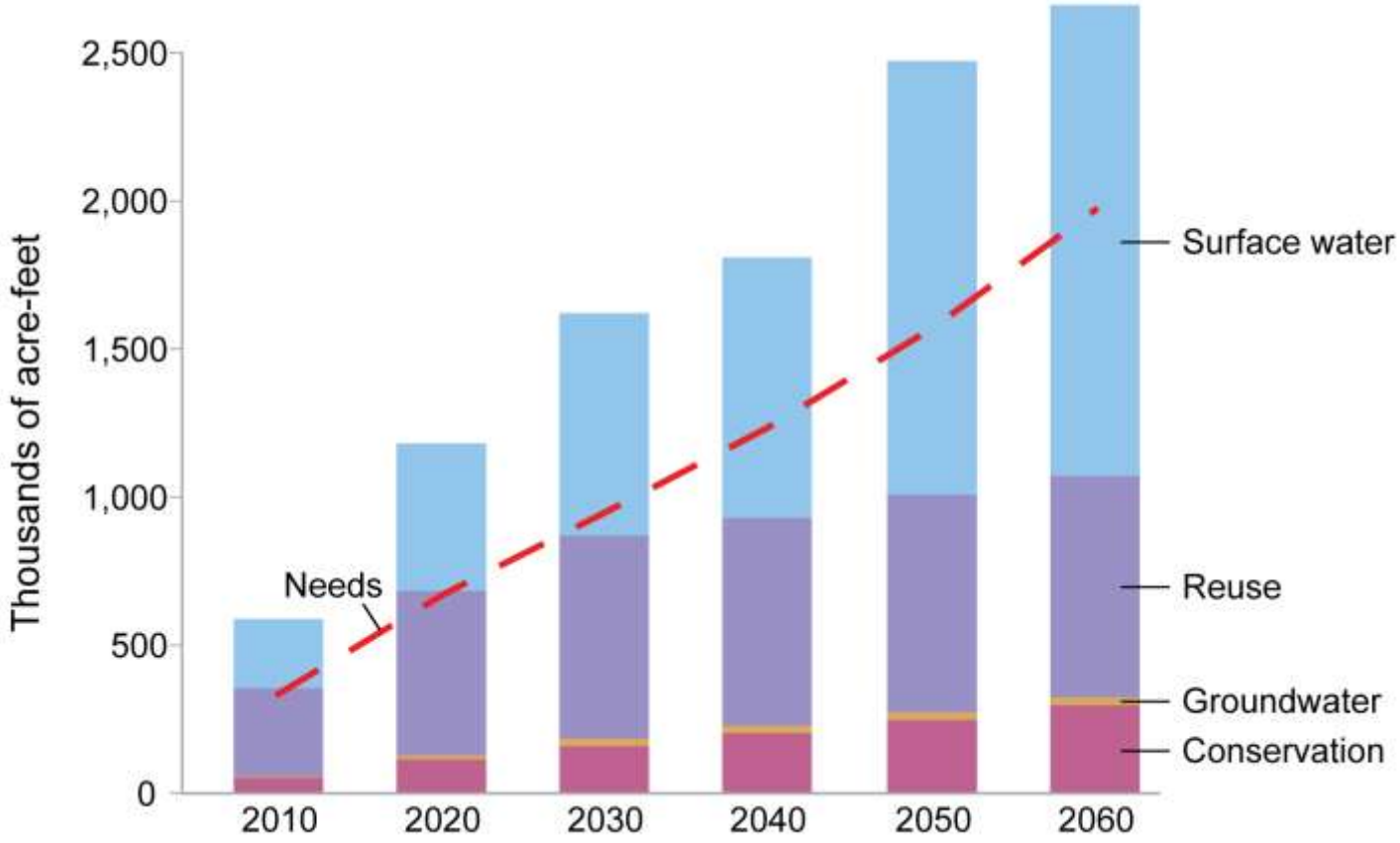
Figure 4D.2
Unit Costs of Potentially Feasible Strategies



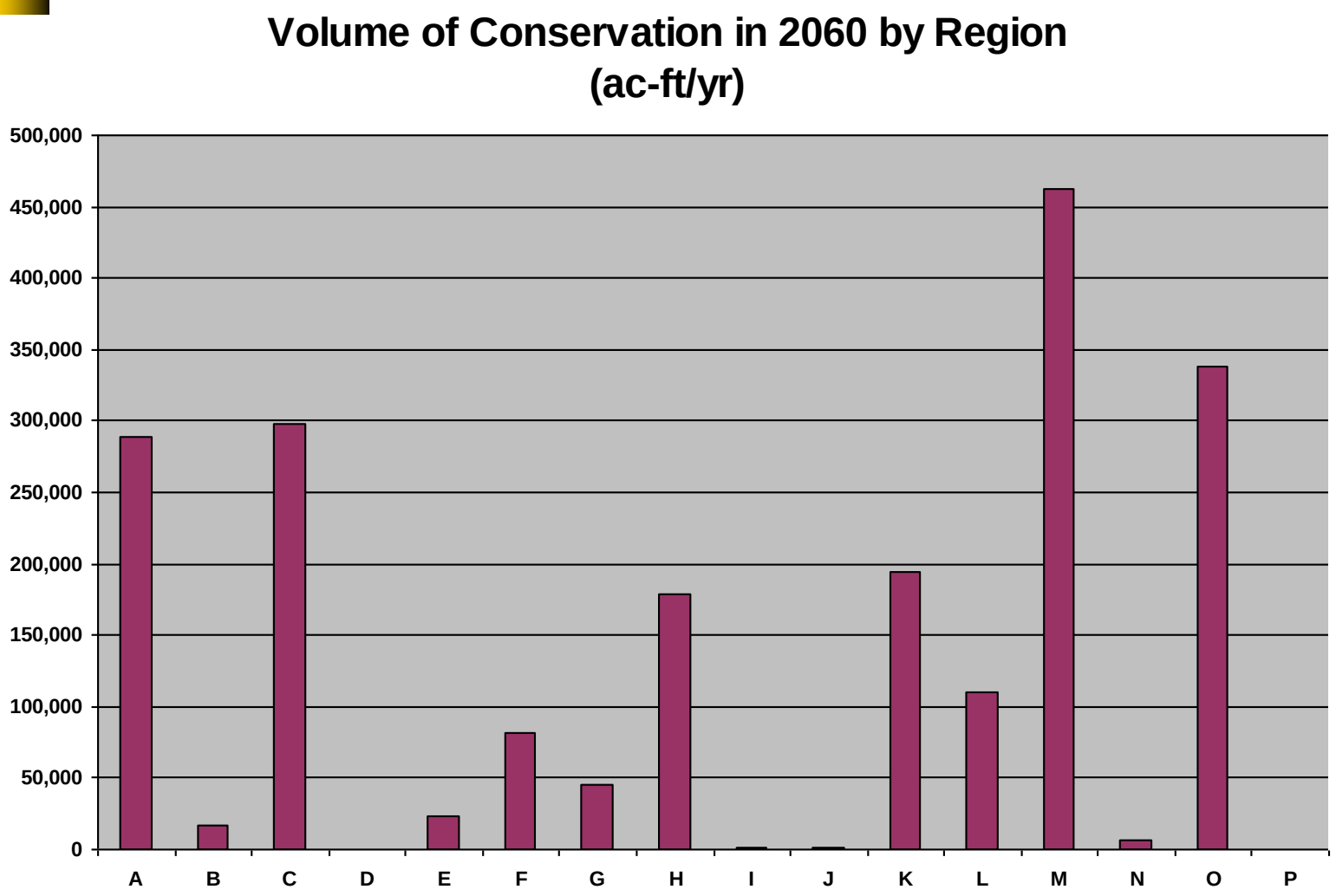
Region C: Recommended Water Management Strategies

- Conservation and Reuse (38%)
- Expanded use of existing supplies including existing reservoirs (33%)
- New reservoirs (28%)
- Groundwater (1%)

Region C: Recommended Water Management Strategies

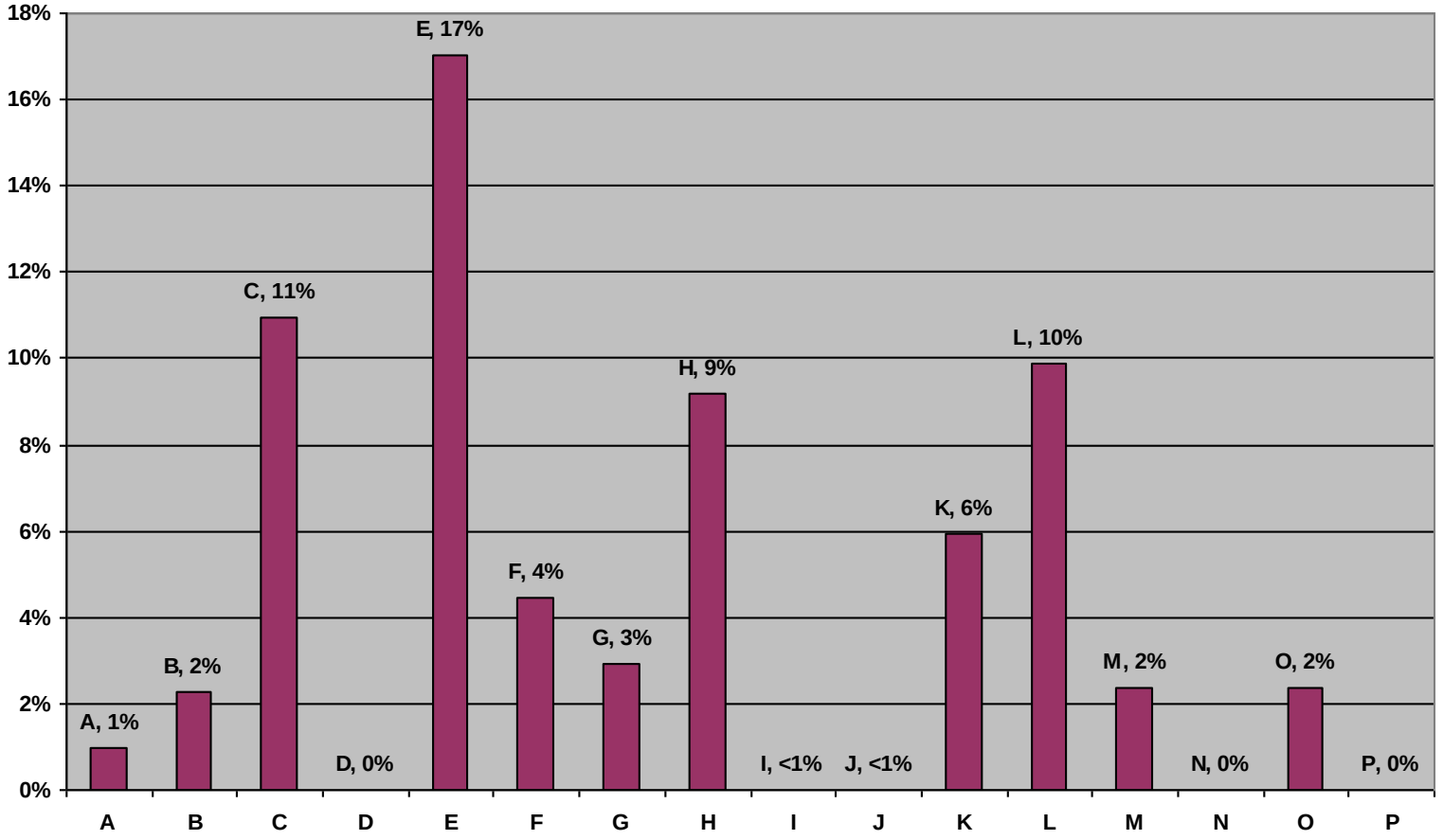


Conservation Strategies Statewide



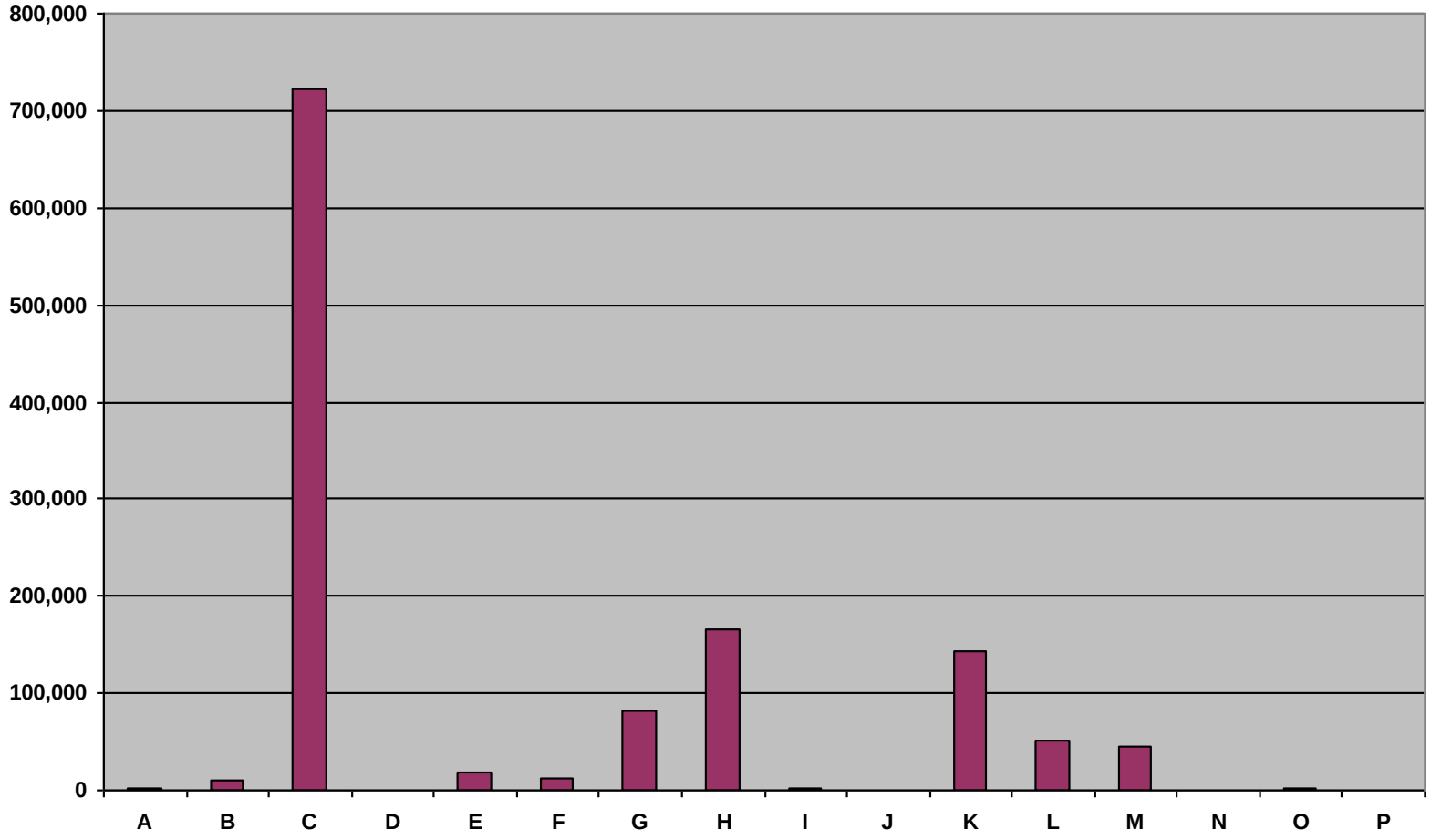
Municipal Conservation Strategies Statewide

Muncipal Conservation as a Percent of all Strategies in Each Region in 2060



Reuse Strategies Statewide

Volume of Reuse in 2060 by Region (ac-ft/yr)



J. Kevin Ward

Executive Administrator

Texas Water Development Board

STUDY COMMISSION ON REGION C WATER SUPPLY

BYLAWS

ADOPTED JULY 29, 2008

ARTICLE I. ORGANIZATION

The official name of this organization, as approved in the Senate Bill-3 (SB-3) legislation during the 80th legislative session, shall be the "Study Commission on Region C Water Supply" hereafter referred to as the "Study Commission".

ARTICLE II. PURPOSE

The purpose of the "Study Commission" shall be to carry out the related responsibilities placed on the "Study Commission" by SB-3, Section 4.04.

ARTICLE III. ADMINISTRATION

The "Study Commission" shall by resolution, identify the activities and costs for which the Administrative Officer is authorized to make application and contract for an unsolicited research grant from the Texas Water Development Board (TWDB) under 31 Texas Administrative Code, Chapter 355, Subchapters A and C. The resolution must specify activities identified at Section 4.04(e) and (h) of Senate Bill 3, 80th Legislature.

The Administrative Officer for the "Study Commission" and purposes of the Texas Public Information Act shall be James (Jim) M. Parks with the North Texas Municipal Water District. The Northeast Texas Municipal District (NETMWD) shall assist the Administrative Officer in administrative duties when requested by the "Study Commission". The principal administrative office of the "Study Commission" shall be the business office of the North Texas Municipal Water District. The contact information for the "Study Commission" shall be:

North Texas Municipal Water District
505 E. Brown Street
P.O Box 2408
Wylie, TX 75098
Telephone: 972.442.5405
Fax: 972.295.6440

The Administrative Officer shall ensure that all notices are properly posted as provided in the Bylaws, as required by law, and as required by the Texas Open Meetings Act.

ARTICLE IV. OFFICERS

The "Study Commission" shall elect from the voting membership Co-Presiding Officers and a Secretary for one-year terms with no limit on the terms a member may serve in any position. The officers shall be elected by a simple majority vote of the members present at a properly posted meeting.

Co-Presiding Officers' Duties

The duties of the Co-Presiding Officers shall be to perform the duties as Executive Officers of the "Study Commission" and to preside at all meetings. The Co-Presiding Officers may establish and appoint committees as necessary, or desirable, to assist in conducting the business of the "Study Commission". If a Co-Presiding Officer is unable to carry out his/her duties, the Secretary shall assume the duties of the Co-Presiding Officer until another Co-Presiding Officer can be elected.

Secretary Duties

The Secretary shall take the minutes and attendance at the "Study Commission" meeting. The minutes and attendance shall be kept as part of the "Study Commission" official records. The Secretary shall perform other duties as assigned by the Co-Presiding Officers or these Bylaws. If a Co-Presiding Officer is unable to carry out his/her duties, the Secretary shall assume the duties of the Co-Presiding Officer until another Co-Presiding Officer can be elected.

Administrative Officer Duties

The Administrative Officer, as directed by the "Study Commission" or authorized in the Bylaws, shall:

(1) act on behalf of the "Study Commission" to make applications and contract for unsolicited research grants from the TWDB (Article III);

(2) ensure that all "Study Commission" notices are properly posted (Article III);

(3) receive the information from the Regional Water Planning Group related to the appointment of a new member (Article IV, Section 2);

(4) ensure that an agenda is prepared and distributed for all meetings of the "Study Commission" (Article VII, Section 3);

(5) maintain all books and records of the "Study Commission" (Article VII, Section 5);

(6) make all "Study Commission" records available for public inspection (Article VII, Section 6); and

(7) perform other duties as assigned by the Co-Presiding Officers or "Study Commission".

ARTICLE V. VOTING MEMBERSHIP

Section 1. Composition

As prescribed in SB-3, Section 4.04 (a)

(1) three members appointed by the Region C Regional Water Planning Group; and

(2) three members appointed by the Region D Regional Water Planning Group

Section 2. Selection of Members

After a "Study Commission" vacancy occurs of a member, the Regional Water Planning Group, from which the vacancy occurred, shall appoint a new member within sixty (60) days. The Regional Water Planning Group shall then provide the member's name and contact information to the "Study Commission" Administrative Officer.

Section 3. Attendance

All members shall make a good faith effort to attend all "Study Commission" meetings. Three consecutive unexcused absences or absence from at least half of the sum of all the meetings held in any one calendar year may serve as grounds for removal. The Co-Presiding Officers shall excuse an absence if it is made known to the Co-Presiding Officers prior to the beginning of the meeting that the absence is due to personal illness, family emergency, jury or military duty, meeting conflicts involving the Texas Legislature, other responsible duties that appear in the judgment of the Co-Presiding Officers to be reasonable, or if a designated alternate attends the meeting in place of the member.

Section 4. Designated Alternates

Each member shall designate an alternate to represent them when the member is unable to attend a meeting. The alternate shall be from the respective Region, Region C or Region D, and shall be designated in writing to the Co-Presiding Officers prior to the first meeting the designated alternate will appear on behalf of the member. The Co-Presiding Officers shall not recognize the designation of more than one (1) alternate per member at any given time nor recognize more than two (2) alternate designations per member per calendar year. The designated alternate shall have the same voting privileges and duties as the member except that an alternate may not serve as an officer.

Section 5. Removal of Voting Member

Grounds for removal of members shall be:

(1) Excessive absenteeism as defined under Section 3 of this Article;

(2) Death;

(3) Resignation;

(4) Appointment of a successor by the Regional Water Planning Group;
(5) Failure to abide by the code of conduct provisions set forth under Article VIII;
(6) Falsifying documents;
(7) Any other serious violation of these Bylaws as may be determined by the members;
(8) The member's designated alternate engages in any acts described in subdivisions (4), (6), or (7) of this subsection; or,
(9) Conduct which hinders the efforts of "Study Commission".

A Co-Presiding Officer or any four (4) members may bring a charge against another member for violation of these Bylaws. The Co-Presiding Officers, upon receiving the information, will request, in writing, the accused member to respond to the charges. The matter would then be referred to the "Study Commission" at a regular meeting. The removal of any member shall require four (4) votes of the total membership. Any vacancies created by the removal of a member would be filled in accordance with the selection process (Article V, Section 2).

ARTICLE VI. MEETINGS

Section 1. Notice

All meetings and hearings of the "Study Commission" and/or subgroups shall be posted and open to the public in the manner of a governing body under the Texas Public Information Act. All meetings and hearings of the "Study Commission" and/or subgroups shall be posted:
(1) On the Secretary of State's website;
(2) On the TWDB's website;
(3) On the Region C website;
(4) In all sixteen (16) counties in Region C; and
(5) In all nineteen (19) counties in Region D.

All members shall receive an advance meeting notice and agenda at least one (1) week prior to the meeting. No action may be taken on any item that does not appear as an action item on the agenda. Notice is acceptable by First Class U.S. Mail, facsimile, or electronic media. Special meetings may be called by either Co-Presiding Officer or a majority of the members of the "Study Commission".

Section 2. Frequency

At least one regular meeting of the "Study Commission" shall be held in each calendar quarter. The Administrative Officer of the "Study Commission" shall ensure that an advance notice and an agenda for the meetings are provided to the full membership of the "Study Commission" at least one (1) week in advance of the meeting by First Class U.S. Mail, facsimile, or electronic mail. Supporting information and member-

requested materials shall be distributed to the full membership with the notice and agenda, or at the meeting, as deemed appropriate by the Co-Presiding Officers.

Section 3. Location

The meeting locations will alternate between Region C and Region D. During the legislative session, meetings may need to be scheduled in Austin to accommodate legislators serving on the "Study Commission".

Section 4. Public Participation

All meetings and hearings of the "Study Commission" and/or subgroups shall provide an opportunity for public participation. Public comments will be accepted:

(1) On all Action Items on the posted agenda for each meeting; and
(2) During the open microphone session at each meeting.

Speakers on both the Action Items and open microphone session will be allowed three (3) minutes per item or session.

ARTICLE VII. MEETING RULES

Section 1. Quorum

A quorum of the "Study Commission" shall be four (4) members or their designated alternates with a minimum of two (2) members from Region C and two (2) members from Region D. A quorum shall be necessary to conduct any business.

Section 2. Robert's Rules of Order

Except as otherwise provided in these Bylaws, meetings of the "Study Commission" shall be conducted under the provisions of the most current edition of Robert's Rules of Order. However, failure to follow such rules shall not constitute grounds for an appeal of an action or a decision of the "Study Commission".

Section 3. Agenda

The Administrative Officer shall ensure that an agenda is prepared and distributed for all meetings of the "Study Commission". Items shall be placed on the agenda at the request of the Co-Presiding Officers or at the request of at least three (3) members of the "Study Commission". Consideration of approval of the previous meeting's minutes shall always be among the first items on the agenda. Copies of the agenda and all supporting material shall be made available for public review prior to and following any meeting of the "Study Commission".

Section 4. Minutes

The Secretary of the "Study Commission" shall ensure that minutes of all meetings of the "Study Commission" are prepared and distributed. The minutes shall:

(1) State the subject of each deliberation;
(2) Indicate each vote, order, decision, or other action taken;
(3) Indicate those "Study Commission" members in attendance, noting the presence of a quorum, and noting the presence of those members of the public who participate in the course of the meeting,
(4) Represent an accurate summary of the meeting's record; and,
(5) State any other information required by these Bylaws to be included in the minutes.

Section 5. Records

All books and records of the "Study Commission" shall be maintained by the Administrative Officer in accordance with law for a governmental agency for a period of at least five (5) years. A duplicate set of "Study Commission" records will be retained for the Region D area by the Northeast Texas Municipal Water District. The contact information for the Northeast Texas Municipal Water District is:

Northeast Texas Municipal Water District
Attention: Walt Sears, General Manager
4180 FM 250
P.O. Box 955
Hughes Springs, TX 75656
Telephone: 903.639.7538
Fax: 903.639.2208

Section 6. Copying

All information under the Public Information Act shall be available for public inspection during the normal business hours of the Administrative Officer. The procedures and fees for copying and inspection shall be the same as those used by the Administrative Officer for its own public records.

Section 7. Availability of Reports

The "Study Commission" shall deliver a report to the Governor, Lieutenant Governor, and Speaker of the House of Representatives not later than December 1, 2010, that includes:

(1) Any studies completed by the "Study Commission";
(2) Any legislation proposed by the "Study Commission";
(3) A recommendation as to whether Marvin Nichols should remain a designated reservoir site; and,

(4) Other findings and recommendations of the "Study Commission".

All reports, planning documents, and work product resulting from the "Study Commission" shall be made available to the TWDB.

ARTICLE VIII. CODE OF CONDUCT

Members and designated alternates of the "Study Commission" shall ethically conduct the business of the "Study Commission" and shall avoid any form or appearance of a conflict of interest, real or apparent, by observing the following:

1. No member or designated alternate of the "Study Commission" shall:
   a) Solicit or accept gratuities, favors, or anything of monetary value from suppliers or potential suppliers of services, materials, or equipment, including subcontractors under recipient contracts; or,
   b) Participate in the selection, award, or administration of a procurement where the member or designated alternate has a financial or other substantive interest in the organization being considered for award. Such conflict may be due to any of the following having a financial or familial relationship with the organization:
      i) the member or designated alternate;
      ii) the member's or designated alternate's family;
      iii) the member's or designated alternate's business partner(s); or
      iv) a person or organization that employs, or is about to employ, any of the persons listed in (i)-(iii) above
   c) Participate in any deliberation, decision, or vote that would constitute a conflict of interest under federal, state, or local law.

2. Potential conflicts of interest shall be clearly stated by the voting member or designated alternate prior to any deliberation or action on an agenda item with which the voting member or designated alternate may be in conflict. Where the potential conflict is restricted to a divisible portion of an agenda item, the Co-Presiding Officers may divide the agenda item into parts, at the Co-Presiding Officer's discretion, for deliberation and voting purposes. An abstention from participation in deliberations, decisions, or voting and the reasons therefore shall be noted in the minutes.

ARTICLE IX. DECISION PROCESS

Section 1. Proxies

Proxies shall not be allowed in any decision-making by the "Study Commission", its committees, or its subgroups.

Section 2. Consensus

Use of Consensus. The "Study Commission" shall attempt to make decisions using a consensus decision-making process. Consensus is an agreement on a decision built by identifying and exploring all members' interests and by assembling a package agreement which satisfies these interests to the greatest extent possible. A consensus is reached when voting members agree that their major interests have been taken into consideration and addressed in a satisfactory manner so that they can support the decision of the group. The process of building consensus involves the development of alternatives and the assessment of the impacts of those alternatives.
Consensus does not necessarily mean unanimity. Some members may strongly endorse a particular solution while others may accept it as a workable agreement. A member can participate in the consensus without embracing each element of the agreement with the same fervor as other members, or necessarily having each of his/her interests satisfied to the fullest extent. In a consensus agreement, the members recognize that, given the combination of gains and tradeoffs in the decision package and given the current circumstances and alternative options, the resulting agreement is the best one the voting members can make at this time.

Section 3. Voting

If a consensus is not reached, the Co-Presiding Officers shall entertain a motion to put the issue to be conclusively decided by four (4) favorable votes at a properly posted meeting.

Section 4. Alternative Resolution

If a favorable vote cannot be achieved in accordance with Section 2 or Section 3 of this article, the Co-Presiding Officers shall review the decision and the previous actions of the "Study Commission". If it is the conclusion of the Co-Presiding Officers that further discussions cannot resolve the issue, then the matter would be dropped or the process initiated to provide additional information.
Section 5. Final Adoption of the "Study Commission" Report

The members of the "Study Commission" shall adopt the Study Commission Report by four (4) favorable votes at a properly posted meeting. If individual members of the "Study Commission" desire, they may include a "minority report" in the Study Commission Report.

ARTICLE X. COMMITTEES

The "Study Commission" may, by motion, establish committees and subgroups to assist and advise the "Study Commission" in the development of the "Study Commission" Report. The membership and composition of the committees and subgroups shall be in accordance with the resolution adopted by a simple majority of the members present at

a properly posted meeting. The "Study Commission" shall appoint a Chairperson for each committee or subgroup established. Members to committees and subgroups may be removed for the same reasons and process as "Study Commission" members.

ARTICLE XI. COMPENSATION

As noted in SB-3, Section 4.04, (d), "Members of the study commission are not entitled to compensation for service on the study commission but may be reimbursed for travel expenses incurred while conducting the business of the study commission, as provided for in the General Appropriations Act."

ARTICLE XII. INFORMATION, DATA & STUDY INFORMATION

The "Study Commission" anticipates using available information that has been developed by a qualified professional related to water supply projects that may be accessible for use in Region C and Region D.

As noted in SB-3, Section 4.04, (f), "The study commission may not be assisted by any person that is a party to or is employed by a party to a contract to perform engineering work with respect to site selection, permitting, design, or construction of the proposed Marvin Nichols reservoir."

ARTICLE XIII. AMENDING THE BYLAWS

These Bylaws shall have full force and effect upon approval and adoption by the voting members. Amendments to these Bylaws must be approved by a simple majority of the total membership.

These Bylaws were approved by the "Study Commission" in a posted meeting on this the 29th day of July 2008.

Region C Members

Senator Florence Shapiro

Representative Jodie Laubenberg

James (Jim) M. Parks

Region D Members

Representative Stephen Frost

Thomas F. Duckert

Richard LeTourneau

Appendix G: November 12, 2008 Meeting

Agenda

Minutes

Handouts: Timeline for Phase 1 Work, Request for Qualifications

STUDY COMMISSION ON REGION C WATER SUPPLY

OPEN PUBLIC MEETING

Wednesday, November 12, 2008
10:00 A.M.

The Meeting will be held at:

Region 8 Education Service Center
2230 North Edwards Avenue
Mount Pleasant, Texas 75455

AGENDA

I. Field trip to view the Sulphur River east of Highway 271 and north of FM 71 and surrounding areas in northern Titus County and southern Red River County with the start and conclusion of the field trip being 2230 North Edwards Ave., Mount Pleasant.

The field trip will depart at 10:00 a.m. and no action will be taken by the study commission during this event.

The path of the field trip could include the roads of Titus County Road 1905, Red River County Road 1412, FM 71, FM 1734, FM 2152, Highway 271.

STUDY COMMISSION ON REGION C WATER SUPPLY

OPEN PUBLIC MEETING

Wednesday, November 12, 2008
1:00 P.M.

The Meeting will be held at:

Region 8 Education Service Center
2230 North Edwards Avenue
Mount Pleasant, Texas 75455

AGENDA

I. Call to Order

II. Welcome/Introduction

III. Action Items for Consideration

a. Adoption of Minutes of July 29, 2008 Meeting

b. Discussion and Possible Action on Meeting Minutes Procedure

c. Discussion and Adoption of TWDB Administrative Timeline to Complete Work of Study Commission

d. Review of Request for Qualifications (RFQ) Submissions Received Responsive to RFQ and Possible Selection of Consultant Consistent with the RFQ

e. Discussion and Authorization to Develop a Proposal with the Selected Consultant Consistent with the Approved Scope of Work

f. Discussion, Designation, and Authorization of Administrative Officer's Political Subdivision to Make Application and Receive Funds as Representative of Study Commission

IV. Discussion Items

a. Discussion/Selection of Date, Time, and Location of Next Meeting

b. Public Comment

V. Adjourn

Study Commission on Region C Water Supply

MINUTES OF AN OPEN PUBLIC MEETING
November 12, 2008

The Study Commission on Region C Water Supply (Study Commission) met in an open public meeting on Wednesday, November 12, 2008, at 1:00 P.M. The meeting was held at the Region 8 Education Service Center at 2230 North Edwards Avenue, Mount Pleasant, Texas. Notice of the meeting was legally posted.

I. CALL TO ORDER

Representative Stephen Frost called the meeting to order at approximately 1:00 P.M.

II. WELCOME/INTRODUCTION

Senator Florence Shapiro and Representative Frost introduced each member of the Study Commission. The following members were in attendance:

The Honorable Florence Shapiro	Mr. Thomas Duckert
The Honorable Stephen Frost	Mr. Richard LeTourneau
The Honorable Jodie Laubenberg	Mr. Jim Parks

Also in attendance was Dee Farmer from Senator Kevin Eltife's office. Additionally, Carolyn Brittin and Angela Masloff of the Texas Water Development Board (TWDB) were in attendance. The registration lists signed by guests in attendance are attached.

III. ACTION ITEMS FOR CONSIDERATION

a. ADOPTION OF MINUTES OF JULY 29, 2008 MEETING

On a motion by Representative Frost and a second by Jim Parks, the Study Commission unanimously adopted the minutes from the July 29, 2008 meeting.

b. DISCUSSION AND POSSIBLE ACTION ON MEETING MINUTES PROCEDURE

On a motion by Representative Frost, and a second by Representative Jodie Laubenberg, the Study Commission unanimously approved a proposal to make audio recordings of each Commission meeting. Mr. Parks agreed to store the tapes on an intermediary basis, and Carolyn Brittin confirmed that the TWDB would undertake the archival process.

Prior to voting on the motion, comments were received from the following individuals:

i. Red Birdsong
ii. Carolyn Brittin
iii. David Nabors

c. DISCUSSION AND ADOPTION OF TWDB ADMINISTRATIVE TIMELINE TO COMPLETE WORK OF STUDY COMMISSION

Ms. Brittin of the TWDB presented to the Commission the newly drafted timeline for the Commission's study. The timeline was based on the assumption that a contractor would be selected immediately and begin work no later than February 2009.

Ms. Brittin also discussed the steps that the Commission would have to take in order to obtain the $500,000 TWDB grant. The TWDB has included an exceptional item in its appropriations request for $2 million, for the purpose of supplementing the Commission's contract with a consultant. These funds would be available in September 2009, and the Commission would have to amend the contract at that time.

On a motion by Representative Laubenberg, seconded by Richard LeTourneau and Tom Duckert, the Commission unanimously adopted the proposed timeline.

d. REVIEW OF REQUEST FOR QUALIFICATIONS (RFQ) SUBMISSIONS RECEIVED RESPONSIVE TO RFQ AND POSSIBLE SELECTION OF CONSULTANT CONSISTENT WITH RFQ

Mr. Parks gave a brief overview of the process undertaken to solicit Request for Qualifications (RFQs) from consulting firms willing to enter negotiations with the Commission. Mr. Parks further discussed the requirements for the applying firms.

Upon the suggestion of Senator Shapiro, and by the agreement of the Commission members, the Commission recessed at approximately 1:45 P.M. to review the five Statement of Qualifications (SOQs) received by the Commission.

e. DISCUSSION AND AUTHORIZATION TO DEVELOP A PROPOSAL WITH THE SELECTED CONSULTANT CONSISTENT WITH THE APPROVED SCOPE OF WORK

The Commission members resumed meeting at approximately 2:30 P.M. The Commission members reviewed the tabulation procedures used to select a consulting firm with which to enter negotiations. Espey Consultants, Inc. (Espey) received the highest tabulated score, and so was selected to be negotiated with first. If the Commission cannot reach agreement with Espey, then the Commission would enter negotiations with the second-highest ranked firm.

Representative Laubenberg motioned that the Commission enter into negotiations with Espey. Tom Duckert seconded the motion. Without objection, Representative Frost amended the motion to also accept the SOQ submissions in the order ranked by the Commission. The Commission unanimously adopted the amended motion.

f. DISCUSSION, DESIGNATION, AND AUTHORIZATION OF ADMINISTRATIVE OFFICER'S POLITICAL SUBDIVISION TO MAKE APPLICATION AND RECEIVE FUNDS AS REPRESENTATIVE OF STUDY COMMISSION

Representative Frost motioned that the Administrative Officer's political subdivision (NTMWD) with the help of the NETMWD be designated and authorized to submit a grant application to TWDB and receive subsequent grant funds to be used to carry out the legislative charges in Senate Bill 3 Section 4.04 of the 80th Legislative Session. Following a second by Representative Laubenberg, the motion was approved unanimously by the Commission.

IV. DISCUSSION ITEMS

a. DISCUSSION/SELECTION OF DATE, TIME, AND LOCATION OF NEXT MEETING

It was the consensus of the Study Commission members to schedule the next meeting for January 12, 2008 at 1:00 P.M. in order to consider the results of negotiations with Espey. The meeting will be held in Room 1-111 of the William B. Travis Building at 1701 N. Congress, Austin, Texas.

b. PUBLIC COMMENT

Mr. LeTourneau asked that the Commission invite the Sabine River Authority of Texas and the Sabine River Authority of Louisiana to a future Commission meeting in order to provide information to the Commission on water availability.

Representative Frost further suggested that other parties like the Texas Forest Service might have relevant input. Any suggestions on potential presenters should be sent to Mr. Parks. These presentations are to be separate from the Scope of Work-related activity.

Public comments were received from the following individuals:

i. George Frost
ii. Stanley Jessee
iii. Gary Cheatwood, Jr.
iv. Gary Cheatwood, Sr.
v. Henry "Corky" White
vi. John Purviance
vii. John McConnell
viii. Sharron Nabors
ix. Max Shumake
x. David Parkhill
xi. David Nabors
xii. Nancy Clements
xiii. Charleen Granberry

V. ADJOURN

There being no further business, the meeting of the Study Commission on Region C Water Supply adjourned at approximately 4:00 P.M.

SENATOR FLORENCE SHAPIRO
Co-Presiding Officer

REPRESENTATIVE STEPHEN FROST
Co-Presiding Officer

STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
NOVEMBER 12, 2008

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Sharron Nabors	Region D Landowner	
2	Carol Malone	Lamar Co	
3	Betty Malone	Lamar Co	
4	David Nabors	Lamar Co Farm Bureau	
5	Ted Benson	SELF	TedBenson@cfjam.com
6	Louise Benson		
7	David Weidman	FLWD / Region D Wtr Rep	
8	Larry Rivers	MWH	larry.rivers@mwhglobal.com
9	Bill Swanson	MWH	william.swanson@mwhglobal.com
10	J. Sherry Rolen		461 CR 1412 Bogata Tx 75417
11	David Rolen		" " "
12	SHERI NEW	INTERNATIONAL PAPER	SHERI.NEW@IPAPER.COM
13	John McConnell	self	John2@mt-vernon.com
14	Mark Newhouse	Bois d'Arc MUD	mnewhouse@earthlink.net
15	Vatra Solomon		vatras@suddenlink.net
16	Mark Estlinger	Estlinger Ranch	mark@mpkwik for.com
17	Linda Price	Ward Timber	linda.price@wardtimber.com
18	DON GAINES	SELF	
19	JOHN JONES	TPWD	John.JONES@tpwd.state.tx.us
20	Henry White	~~Re~~Landowner	corkywhite.tamu74@Yahoo.com

STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
NOVEMBER 12, 2008

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Stephen Frost	Region D	
2	Marie Martin	Region D	
3	Brandy Chewning	Texarkana Gazette	bchewning@texarkanagazette.com
4	KEN BISHOP	CLARKSVILLE TX Council	
5	ANGELA MASLOFF	TWDB	
6	Tommy SPRYGILL	TCFWSD	TSPRYGILL@TCFRESHWATER.COM
7	Charleen Granberry	Self	NANAberry@windstream.net
8	Pauline Greenwood	SELF	
9	Freda Smart	SELF	
10	Stanley Jessee	Self - Cuthand Methodist Church	sjessee@rivercrestisd.net
11	Dolores Chatwood	Self	
12	Dewayne Martin	self Cuthand	
13	Melita Fuller	NTMWD	mfuller@ntmwd.com
14	Rad Fegan	CITY OF PLANO	rodh@plano.gov
15	David Parkhill	AECOM	david.parkhill@aecom.com
16	Peggy Belcher	Land Owner	
17	Shirley Shumake	SOS	HollowayCrossing@aol
18	Adam Whisenant	TPWD	adam.whisenant@tpwd.state.tx.us
19	Jack Salmon	NETMWD	KCREEK@HOTMAIL.COM
20	Drew Nipp	Titus Co. SO.	nippdrew@yahoo.com

STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
NOVEMBER 12, 2008

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Temple McKinnon	TWDB	temple.mckinnon@twdb.state.tx.us
2	Ann Kusbing	NETWC - Clarksville	abrushing@cebridge.net
3	Lee Thomas	NETMWD	caddourpp@aol.com
4	Gary W. Cheatwood Jr.	landowner	cheatwood@netdata corp.net
5	Gary W Cheatwood, SR	LANDOWNER / REGION D	
6	Tanner Spradlin	Texas Farm Bureau	
7	David H Frost	landowner	
8	Carolyn Britton	TWDB	cbritton@twdb.state.tx.us
9	Allen Birdsong	Family	shiftyz@msn.com
10	PATRICIA McKelvey	Self	cuthanduo@wmconnect.com
11	Nancy Clements	Clements Tree Farm	4369 CR 2114 Douglassville, TX 75560
12	Nancy Martin	Self	ndmartin@neto.com
13	Brittanie Lowery	Ward Timber	Brittaniewtc@AOL.com
14	MAX Shumake	SOS	maxshumake@AOL.com
15	Tom Gooch	Freese & Nichols	tcg@freese.com
16	Sandy Cash	UTRWD	scash@UTRWD.com
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STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
NOVEMBER 12, 2008

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Dorothy Kay Kennedy	Land Owner/Cuthand	dorothykk@neto.com
2	NINA HOLT	Land owner + Self	
3	ROBERT HOLT	Land owner + Self	
4	RICHARD LeTOURNEAU	[illegible]	richardoij@AOL.com
5	George Frost	Region D - Public	
6	Eddie ~~Butt~~ Belcher	Land owner RRC	EWBcuthand@ymail
7	Roger Jones	Land owner	
8	John Purviance	Land Owner	mayfly97@yahoo.com
9	Dee Farmer	Texas Senate - Eltife	
10	FRED M. BLUMBERG	MALCOLM PIRNIE	fblumberg@pirnie.com
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STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
NOVEMBER 12, 2008

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Lynda Stringer	Daily Tribune	Lstringer77@yahoo.com
2			Lynda@dailytribune.net
3	Lawrence Malone	Lamar Co	
4	Henderson L. Bratton	Land Owner	ahbratton65@hotmail.com
5	Alicia H Bratton	Land Owner	" " "
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STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
NOVEMBER 12, 2008

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Randy McIntyre	Malcolm Pirnie	rmcintyre@pirnie.com
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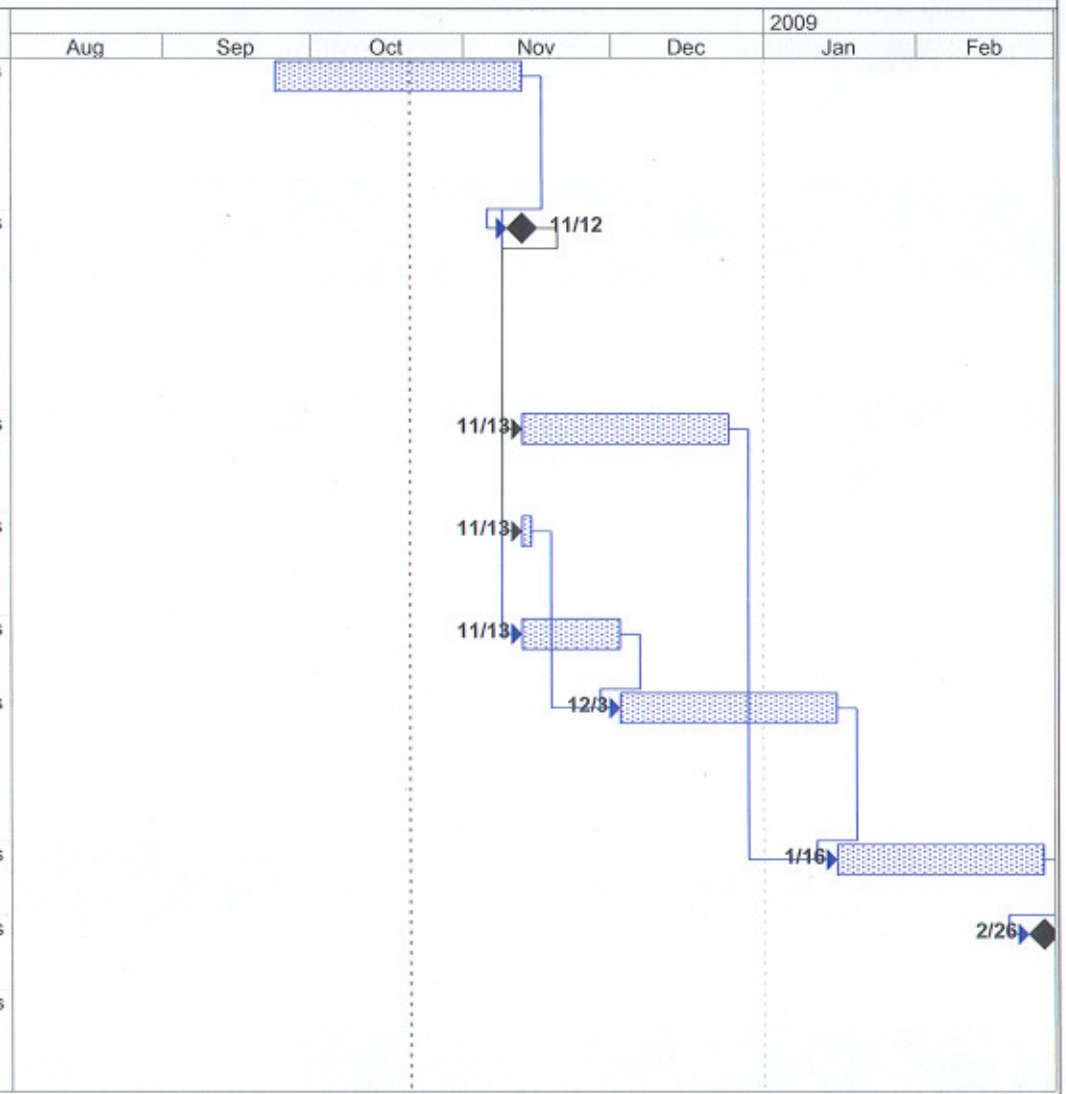
Study Commission on Region C Water Supply

DRAFT

10-21-08

ID	Task Name	Duration
1	Study Commission authorizes Administrative Officer to publish RFQ and Administrative Officer publishes RFQ in Texas Register	36 days
2	Study Commission to: review contractor proposals; consider and take action regarding selection of Contractor; give authorization to enter negotiations with Contractor; and, authorize Administrative Officer to apply for TWDB grant funds.	0 days
3	Study Commission negotiates with Contractor on cost, scope, time line, and budget.	30 days
4	Adiministrative Officer publishes notice of intent to apply for TWDB funds (at least 30 days prior to TWDB board consideration).	2 days
5	Adiministrative Officer submits grant application to TWDB.	14 days
6	TWDB processes grant application and presents to TWDB board for consideration and approval (application must be received at least 3 weeks prior to a TWDB board meeting).	32 days
7	Contract execution between TWDB and Study Commission.	30 days
8	Contractor begins work.	0 days
9	Study Commission delivers report to Legislature (12/1/2010).	0 days



9. Completing the review and final report within 45 days of campus visit.

10. Providing a final document to President Dottavio.

The CEO of Tarleton has determined that these consulting services are necessary. As a new president, it is important that the necessary evaluative processes of an outside consultant are utilized to help identify areas within the University that may need improvement or changes, in order to function more efficiently and effectively. In addition, the University's Strategic Plan developed in 2007 will provide guidance for several years to come. The Institutional Review provides an opportunity for a relatively new Strategic Plan to be effectively coordinated with new initiatives by the president.

The awarded vendor shall complete all authorized work in accordance with the time for performance described for the work and be consistent with the highest customs, standards and practices of his/her business or profession.

The Request for Qualifications (RFQ) documentation may be obtained by contacting: Ms. Beth Chandler, Director of Purchasing, Central Services and HUB Program, Tarleton State University, Box T-0600, Stephenville, Texas 76402 or e-mail at chandle@tarleton.edu.

Tarleton State University will base its choice on demonstrated competence, knowledge, and qualifications and on the reasonableness of the proposed fee for the services; and if other considerations are equal give preference to a consultant whose principal place of business is in the state or who will manage the consulting contract wholly from an office in the state of Texas.

Submissions must be received on or before 3:00 p.m. CST on November 24, 2008.

TRD-200805418
Vickie Burt Spillers
Executive Secretary to the Board
The Texas A&M University System
Filed: October 14, 2008

♦ ♦ ♦

The University of Texas System

Award of Consultant Contract Notification

The University of Texas System ("University"), in accordance with the provisions of *Texas Government Code*, Chapter 2254, entered into a contract for consulting services ("Contract") with Global Options, Inc. ("Consultant"). The University received an emergency waiver from the Texas Governor's Office from the Notice of Intent requirements of §2254.028; and from the pre-contract publication requirements of §2254.029 of the *Texas Government Code* on October 3, 2008. Therefore, the proposal was not previously published in the *Texas Register*.

Project Description:

In accordance with the Request for Emergency Waiver and Consultant's response thereto, Consultant shall assist University of Texas institutions prepare, process, and recover claims for damages from the Federal Emergency Management Agency (FEMA) caused by natural disasters including, but not limited to, claims arising from Hurricane Ike.

Name and Address of Consultant:

Global Options, Inc.

1501 M Street, NW, 5th Floor

Washington DC 20005

Total Value of Contract:

The overall maximum value of the contract is indefinite, subject to the contractual authority delegated by The University of Texas System Board of Regents to the University's representative. The allowable fees for each specifically authorized project will be established in an "Authorization to Commence Work" issued by a University institution.

Contract Dates:

The Contract was executed by Consultant on October 6, 2008, and by University on October 9, 2008, and dated effective October 1, 2008.

Due Dates for Contract Products:

The consulting services will be completed and delivered to University no later than September 30, 2013.

The Contract expires on September 30, 2013.

TRD-200805427
Francie A. Frederick
General Counsel to the Board of Regents
The University of Texas System
Filed: October 14, 2008

♦ ♦ ♦

Texas Water Development Board

Request for Statements of Qualifications - Study Commission

The Study Commission on Region C Water Supply (Study Commission) requests the submission of Statements of Qualifications (SOQs) from interested applicants leading to the possible award of contracts to perform work identified in a Scope of Work prepared by the Study Commission and listed below as Task 1 through Task 8. Funding will be through Texas Water Development Board (TWDB) grants to the Study Commission. A contract will be negotiated by the Study Commission with the most qualified applicant and payments will be made by the Study Commission's Administrator.

Statements of qualifications are requested for the work identified below as "Independent Third Party".

Disqualification

Per Senate Bill 3, 80th Texas Legislature, Regular Session, the Study Commission may not be assisted by any person that is a party to or is employed by a party to a contract to perform engineering work with respect to site selection, permitting, design, or construction of the proposed Marvin Nichols reservoir.

Description of Scope of Work to be Performed

Task 1: Water Supply Alternatives

SB3 Section 4.04 (e)(1): "Review the water supply alternatives available to the Region C Regional Water Planning Area, including obtaining additional water supply from Wright Patman Lake, Toledo Bend Reservoir, Lake Texoma, Lake O' the Pines, other existing and proposed reservoirs, and groundwater."

Purpose

The purpose of this work is to identify and summarize all water supply alternatives that have been considered for Region C. This review will be used to identify any gaps in this information and to assess whether additional studies should be undertaken.

Proposed Work Items

Task 1.1: Identify and review all relevant and available plans and studies that have examined water supply alternatives with the potential to supply water to the Region C Planning Area.

a. Work will include, but not be limited to the following tasks:

i. Perform a literature search for all available planning or engineering-related water supply plans and studies that have considered, evaluated, or proposed water supply alternatives for the Region C Planning Area. Due diligence should be made to obtain all studies, including those studies that have not necessarily been utilized in the state's Regional Water Planning Process, and should cover efforts back to 1985.

ii. Compile a comprehensive list of the identified studies with a brief written synopsis of each study, and a summary of the components of each study including, but not limited to:

a. title of study document;

b. date of study;

c. study sponsor(s);

d. study author(s);

e. type of study (e.g. technical vs. planning level);

f. subject of study (specific facility vs. water user water plan); and

g. other objective components that are considered relevant to this Part as identified by the Study Commission or Contractor.

iii. Develop a list of water supply alternatives for evaluation. Present the compiled list of alternatives and studies at the first available meeting of the Study Commission for additions or deletions to the list and approval of the list for use by the Study Commission and its designated contractors.

Deliverables

Brief summary report, data files, and presentation of results to the Study Commission. Report synopses and bibliography should be submitted in a .pdf format for posting to a web page for public access should the Study Commission so desire.

Task 1.2: Identify and summarize the water supply alternatives described within the plans and studies identified in Task 1.1 including, but not limited to;

* Wright Patman Lake, Toledo Bend Reservoir, Lake Texoma, Lake O' the Pines;

* Other existing and proposed reservoirs;

* Groundwater;

* The water supply alternatives identified in the 2001 and 2006 Region C Water Plans; and

* The water supply alternatives described in the plans and studies identified in Task 1.1.

a. Work will include, but not be limited to the following tasks:

i. Identify each water supply alternative *from each study*. This may, for example, result in 5 summaries of the 'same' alternative but from 5 different studies;

ii. Compile a comprehensive list of all water supply alternatives listed above with an appropriate cross reference to the source plan or study;

iii. Provide a brief written summary of the water supply alternative and a summary of the components of each water supply alternative including, but not limited to:

a. name of water supply alternative;

b. category/type of water supply alternative (e.g. reuse vs. groundwater);

c. water supply volume (e.g. firm yield) as calculated in accordance with TWDB's technical guidance in the regional water planning contracts (i.e. Exhibit B) which requires that firm yield be calculated under drought of record conditions;

d. detailed cost of water supply alternative as standardized by TWDB's technical guidance in the regional water planning contracts;

e. number and name(s) of entities who would develop the water supply alternative and number and name(s) of entities who would be supplied by the water supply alternative;

f. cross-reference for each version of each water supply alternative (e.g. title of study, year, and page number);

g. level of detail of study of the water supply alternative (e.g. planning level versus engineering level);

h. type of study (specific facility vs. water user water plan);

i. date of study;

j. study sponsor(s);

k. study author(s);

l. identification of whether the water supply alternative was a recommended water management strategy in the 2001 or 2006 Region C Water Plans;

m. conditions and terms for viability of the water supply alternative;

n. other attributes considered relevant to this Subtask as identified by the Study Commission or Contractor;

o. water quality of source;

p. permitting requirements;

q. environmental impact;

r. operational considerations (e.g., flood control, system operation, etc.); and

s. economic impact to both Regions C and D (e.g., gain/loss of jobs, industry, manufacturing, etc.).

iv. Characterize and clarify the significant variations between attributes for different versions of the same water supply alternative; and

v. Prepare a draft summary report and brief the Study Commission members on the water supply alternatives identified and the significant variations between versions of similar water supply alternatives.

Deliverables

Summary report, data files, and presentation of results to Study Commission.

Task 1.3: Identify potential gaps in the existing plans and studies and make recommendations to the Study Commission on what additional studies might be undertaken to bridge any identified gaps.

a. Work will include, but not be limited to the following tasks:

i. Contacting all major water providers in Region C to determine the availability of relevant studies;

ii. Identify potential gaps in existing water supply plans and studies;

iii. Based on the contractor's best professional judgment, develop preliminary recommendations on what additional studies could be undertaken to bridge any identified gaps;

iv. Present the preliminary recommendations to the Study Commission and collect feedback from the Study Commission to determine all additional studies needed; and

v. Develop draft scopes of work for the additional studies as determined under Task 1.3.a.iv above.

Deliverables

Summary report, data files, presentation of results to Study Commission, draft scopes of work.

Task 1.4: Provide background review of 2006 Region C Water Plan.

a. Work will include, but not be limited to, the following tasks:

i. Summarize the major or significant elements of the 2006 Region C Water Plan using appropriate tables, figures, graphs, and section summaries;

ii. Summarize in a similar manner all water supply alternatives considered; and

iii. Present summary of 2006 Region C Water Plan for all Major Water Providers including all water supply alternatives recommended and designated as alternatives.

Deliverables

Summary report, data files, presentation of results to Study Commission.

Proposed Contractor

Independent Third Party (Tasks 1.1, 1.2, and 1.3)

TWDB (Task 1.4)

Task 2: Socioeconomic Impacts

SB3 Section 4.04 (e)(2): "in connection with the review under Subdivision (1) of this subsection, analyze the socioeconomic effect on the area where the water supply is located that would result from the use of the water to meet the water needs of the Region C Regional Water Planning Area, including:

(A) the effects on landowners, agricultural and natural resources, businesses, industries, and taxing entities of different water management strategies; and

(B) in connection with the use by the Region C Regional Water Planning Area of water from Wright Patman Lake, the effect on water availability in that lake and the effect on industries relying on that water availability;"

Purpose

In connection with the review of water supply alternatives in Task 1, the Study Commission will analyze the socioeconomic impacts of water supply alternatives on geographic regions where the alternatives are located. In addition, the Study Commission will review the impacts of using water from Wright Patman Lake to meet future water needs of Region C. This analysis will focus on potential changes to water availability in the lake, and any associated impacts to cities, businesses and industries that rely on the lake for water supplies. The following document summarizes the initial tasks required to meet these mandates.

Proposed Work Items

Regional economic and demographic impact analysis for Regions D and C of potential water supply alternatives for Region C.

2.1 Furnish a copy of the "Draft List of Citations for Studies Related to Task 2" to each Study Commission member (list is included at the end of this Task description).

2.2 Request from the Study Commission a list of agencies or organizations the Contractor should approach to secure any additional reports or studies that are responsive to the requirements of Task 2.

2.3 Prepare list of all existing reports, studies for review and consent of Study Commission for work on this Task. As a part of its review and approval for use, the Study Commission shall identify all areas of dispute and decide on what additional work could be done to resolve an issue.

2.4 The contractor will identify and evaluate the socioeconomic and demographic impacts to different economic sectors in areas where water supply alternatives would be or are located. Economic sectors include but are not limited to landowners, agricultural and natural resources, commercial business, industrial facilities, and taxing entities. Measured impacts should include direct and secondary losses and/or gains in regional output (i.e., gross sales), regional value-added (i.e., income), employment, local and state sales taxes, property taxes, population, and any other variables considered important to a specific region. Initially, the contractor will conduct an extensive review of any planning, socioeconomic and/or engineering studies that quantify socioeconomic impacts (as described above) to geographic regions where supply alternatives are located.

2.5 The contractor will compile a list of identified studies with written synopses that summarize and critique the attributes, methodologies and results of each study, and identify gaps in existing studies, and if needed, recommend a methodology and approach to the Study Commission to bridge identified gaps.

Deliverables

The contractor will provide a written report summarizing results of identified studies along with copies of the reports and any associated data files (if available) and provide recommendations for further analyses including a scope of work if needed. The contractor will present results to the Study Commission upon request.

Proposed Contractor:

Independent Third Party (Work Items 2.1 - 2.5)

Citations for Studies Related to Tasks (e)(2A) and (e)(2B) of Section 4.04 of Senate Bill 3 - Socioeconomic Impact Analysis of Water Supply Alternatives

1. Weinstein, L.B. and Clower, T.L. "The Economic, Fiscal and Developmental Impacts of the Proposed Marvin Nichols Reservoir Project." Prepared for the Sulphur River Basin Authority. March, 2003.

2. Weihuan, Xu., "The Economic Impact of the Proposed Marvin Nichols I Reservoir to the Northeast Texas Forest Industry." Prepared by the Texas Forest Service of the Texas A&M University System. Publication 162. August, 2002.

3. Perryman, Ray., Technical memorandum reviewing and critiquing the draft economic impact analysis of the proposed Marvin Nichols Reservoir conducted by Weinstein, L.B. and Clower T.L. (March 2003) and a review of the economic impact analysis conducted Weihuan, Xu of the Texas Forest Service (August 2002). Prepared for Mr. John Rutledge of Freese and Nichols, Inc. December, 2002.

4. Stowe, Jack. "Socioeconomic Analysis of Selected Interbasin Transfers in Texas." Prepared by R.W. Beck and Associates for the Texas Water Development Board. October, 2007.

Task 3: Water Conservation and Reuse Strategies

SB3 Section 4.04 (e)(3): "determine whether water demand in the Region C Regional Water Planning Area may be reduced through addi-

tional conservation and reuse measures so as to postpone the need for additional water supplies;"

Purpose

The purpose of this task is to review the water conservation and reuse strategies of "water user groups" included in the 2006 Region C Regional Water Plan including:

1. water user groups (about 360) with identified water supply needs that include water conservation or reuse strategies;

2. water user groups (about 20) with identified water supply needs that did not include water conservation or reuse strategies;

3. water user groups (about 45) who do not have an identified water supply need but did include conservation or reuse strategies.

Proposed Work Items

3.1 The Contractor will review the 2006 Region C Regional Water Plan's water conservation and reuse strategies for each of the above water user groups. For each water user group above, the Contractor will prepare a tabulation of the specific strategies and the methodologies and assumptions utilized for including or omitting water conservation and reuse strategies in the plan.

3.2 The Contractor will develop a transmittal letter and survey form that will be used to transmit the data in Task 1 and a questionnaire that will be provided to either the Utility Director or Water Conservation Director of each water user group in the above list.

3.3 The letter will request that the utility review its specific water conservation and reuse strategies as included in the 2006 Region C Water Plan, including information on:

a. List all conservation initiatives currently underway and planned.

b. List obstacles to increasing conservation in service area of Region C.

c. List reuse programs implemented by agency.

d. List factors that would limit additional reuse.

3.4 The survey will ask the utility to consider current state-of-art water conservation and reuse best management practices, including an analysis of cost effectiveness, and then identify the potential for:

a. the utility to accomplish the impacts of the strategies as contained in the 2006 Region C Regional Water Plan;

b. any increase in utilization or volume of the water conservation and reuse strategies that were included in the 2006 Region C Regional Water Plan; and

c. implementation and estimated volume of any additional water conservation or reuse strategies not included in the 2006 Region C Regional Water Plan.

3.5 The Contractor will transmit by mail the data, letter, and survey form to each water user group in the above list. A follow up reminder letter may also be utilized.

3.6 After the requested response deadline has passed, Contractor will attempt to contact by telephone or personal visit any utilities who have not responded to the request for information.

3.7 The Contractor will develop a side-by-side comparison of the water user groups 2006 strategies and strategies in the requested survey.

3.8 At the completion of the study, the Contractor will provide a report containing the process used in the study and the results obtained from each of the water user groups requested to respond to the survey to the extent possible the Contractor should avoid creating a series of executive summaries and literature reviews that already exist within the Region C 2006 Water Plan that do not offer substantive information to allow the Study Commission on Region C Water Supply to move forward with definitive tasks.

Proposed Contractor:

Independent Third Party (Work Items 3.1 - 3.8)

Task 4: Securing a definitive policy statement from the United States Army Corps of Engineers

SB3 Section 4.04 (e)(4):" evaluate measures that would need to be taken to comply with the mitigation requirements of the United States Army Corps of Engineers in connection with any proposed new reservoirs, including identifying potential mitigation sites;"

Purpose

To secure a definitive policy statement from the United States Army Corps of Engineers relating to mitigation requirements for new reservoir and water resource development projects.

Proposed Work Items

Task 4.1: The TWDB shall request the United States Army Corps of Engineers (USCOE) to make a presentation to the Study Commission on Region C Water Supply that includes:

a. To the extent possible, the impact of the newly issued regulations titled "Final Compensatory Mitigation Rule" on any new reservoir project.

b. A policy statement of the USCOE relating to mitigation that includes but is not limited to:

i. Procedure used to determine required amount of mitigation acreage including timeline and cost.

ii. Procedure used to determine location of mitigation acreage and options available under the "Final Compensatory Mitigation Rule."

iii. Whether or not the USCOE can stipulate measures that would need to be taken to comply with mitigation requirements in connection with any proposed new reservoir, including identifying potential mitigation sites and amount of mitigation acreage required prior to December 1, 2010.

Task 4.2: Depending on the outcome of Task 4.1, it may be necessary for the Study Commission to redirect efforts to comply with SB 3 Section 4.04 (e)(4).

Deliverables

United States Army Corps of Engineers' written policy statement on mitigation requirements for each new reservoir included in the Region C Water Plan.

Proposed Contractor: United States Army Corps of Engineers

Task 5: Determination of mitigation burden to be shared by the Region C and D Regional Water Planning Areas

SB3 Section 4.04 (e)(5):" consider whether the mitigation burden described by Subdivision (4) of this subsection may be shared by the Regions C and D Regional Water Planning Areas in proportion to the allocation to each region of water in any proposed reservoir;"

Purpose

To secure a definitive policy statement from the United States Army Corps of Engineers relating to whether the mitigation burden determined under Task 4 may be shared by the Region C and D Regional Water Planning Areas in proportion to the allocation to each region of water in any proposed reservoir located in Region D.

Proposed Work Items

Task 5.1: The TWDB shall request the United States Army Corps of Engineers (USCOE) to make a presentation to the Study Commission on Region C Water Supply that includes:

a. A discussion of the performance standards and criteria for three types of wetlands mitigation options: mitigation banks, in-lieu programs, and permittee responsible compensatory mitigation as described in the "Final Compensatory Mitigation Rule" as issued by the EPA and USCOE.

b. Identification of sites suitable for mitigation within Region D. This should include satellite imagery with mitigation sites overlain on same area map. This same procedure should be performed for mitigation sites located in Region C. If the USCOE is unable to perform Task 5.1b, an independent third party contractor will identify suitable sites as discussed and prepare area maps and summarize in a brief report following the standards and criteria listed in Task 5.1a.

Task 5.2: Depending on the outcome of Task 5.1, it may be necessary for the Study Commission to redirect efforts to comply with SB 3 Section 4.04 (e)(5).

Deliverables

United States Army Corps of Engineers' written policy statement as to whether the mitigation burden may be shared by the Region C and Region D Regional Water Planning Areas.

Proposed Contractor:

United States Army Corps of Engineers (Task 5.1a and 5.1b)

Independent Third Party (Task 5.1b as necessary)

Task 6: Determining innovative methods of compensation to affected property owners

SB3 Section 4.04 (e)(6): "review innovative methods of compensation to affected property owners, including royalties for water stored on acquired properties and annual payments to landowners for properties acquired for the construction of a reservoir to satisfy future water management strategies;"

Purpose

To review innovative methods of compensation to affected property owners, including royalties for water stored on acquired properties and annual payments to landowners for properties acquired for the construction of a reservoir to satisfy future water management strategies.

Proposed Work Items

Task 6.1

1. Conduct literature search of public works projects involving water supply development in Texas as well as other parts of the United States where innovative methods of compensation to affected property owners have been used.

2. Conduct similar literature search for all public works projects in general where innovative methods of compensation have been used.

3. Based on information found, summarize all pertinent facts for review by Study Commission.

Task 6.2

1. Obtain input from professionals and experts (invited by the Study Commission) who have knowledge of innovative compensation methods available under current law to landowners from non-profit governmental entities for public works water development projects.

2. Compile a summary of all comments received for use by the Study Commission.

Task 6.3

1. The Study Commission shall review all written and verbal information received concerning innovative methods of compensation.

Deliverables

Report by Study Commission of findings and conclusions if any.

Proposed Contractor:

Independent Third Party (Work Items - Tasks 6.1 and 6.2)

Task 7: Evaluate the minimum number of surface acres impacted by the construction of the proposed new reservoirs

SB3 Section 4.04 (e)(7): "evaluate the minimum number of surface acres required for the construction of proposed reservoirs in order to develop adequate water supply;"

Purpose

The purpose of this work is to evaluate the minimum number of surface acres impacted by the construction of the proposed new reservoirs recommended in the 2006 Region C Water Plan. This includes Lake Fastrill, Lake Ralph Hall, Lower Bois d'Arc Reservoir, and Marvin Nichols Reservoir. Location and appropriate operating elevations of each proposed reservoir should reflect the data from the 2006 Region C Water Plan.

Proposed Work Items

7.1 Work will include, but not be limited to the following tasks:

a. Identify and summarize the existing methodologies and estimates of the surface acres impacted by the proposed new reservoir based on the literature search performed in Task 1.1.a.i;

b. Based on the contractor's best professional judgment, the contractor will make a recommendation on the minimum number of surface acres impacted based on task 7.1.a. above or the contractor will develop alternative methodologies for estimating the minimum number of surface acres required for the construction of proposed reservoirs in order to develop adequate water supply;

c. Present summary findings and alternative methodologies to the Study Commission and collect feedback from the Study Commission to determine what alternative methodologies, if any, should be used to evaluate the minimum number of surface acres required for the construction of the proposed new reservoirs;

d. Based on the Study Commission's feedback, determine if additional analyses should be performed using alternative methodologies to evaluate the surface acreage impacted by the proposed new reservoirs; and

e. Develop a draft scope of work for any additional analyses needed.

Deliverables

Summary report, data files, and presentation of results to Study Commission.

Proposed Contractor:

Independent Third Party (Work Items 7.1a - e)

Task 8: Identify the locations of proposed reservoir sites and proposed mitigation sites

SB3 Section 4.04 (e)(8): "identify the locations of proposed reservoir sites and proposed mitigation sites, as applicable, as selected in accordance with existing state and federal law, in the Regions C and D Regional Water Planning Areas using satellite imagery with sufficient resolution to permit land ownership to be determined."

Purpose

To identify the locations of proposed reservoir sites and proposed mitigation sites, as applicable, as selected in accordance with existing state and federal law, in the Region C and D Regional Water Planning Areas using satellite imagery with sufficient resolution to permit land ownership to be determined.

Proposed Work Items

Task 8.1: Land Ownership Determination

a. Determine if land ownership records exist in a digitized form appropriate for inclusion into satellite imagery. This shall be done for each County affected by reservoir construction.

b. Determine the cost and time required to convert existing records to an appropriate digital format for each County, if necessary.

c. Determine the cost and time required to produce a land ownership map from existing County Deed Records for each reservoir project.

Deliverable

Contractor shall report the results and findings of determinations required in Work Items 8.1a, 8.1b, and 8.1c to the Study Commission.

Task 8.2: Satellite Imagery

a. Determine if satellite imagery exists and is available in the appropriate digital format for each reservoir site in the 2006 Region C Water Plan.

b. Determine if satellite imagery exists and is available in appropriate digital format for possible mitigation sites for each reservoir as determined under Task 4 SB 3 Section 4.04 (e)(4).

c. If satellite imagery does not exist, determine cost and time to acquire needed imagery.

Deliverable

Contractor shall report the results and findings of determinations required in Work Items 8.2a, 8.2b, and 8.2c to the Study Commission.

Task 8.3: Consideration by Study Commission of information provided by Contractor from completion of Task 8.1 and Task 8.2 above.

a. If compatible land ownership data and satellite imagery exist or can be generated, consideration will be given by the Study Commission to complete this task as required.

b. If compatible land ownership records do not exist, consideration will be given to producing a land ownership map from existing County Deed Records that can be overlain onto satellite imagery.

c. Given excessive cost or time constraints, the Study Commission may give consideration to redirect efforts to comply with SB3 Section 4.04 (e)(8).

Task 8.4: Merge data onto satellite imagery if directed by Study Commission.

a. Prepare both electronic and printed version of mapping to appropriate scale and size to identify the locations of proposed reservoir sites, proposed mitigation sites, and land ownership for each reservoir in 2006 Region C Water Plan.

b. Provide one copy of electronic and one copy of printed version of mapping to each member of the Study Commission.

Deliverable

Satellite imagery with proposed reservoir sites, proposed mitigation sites, and land ownership for each reservoir project in the 2006 Region C Water Plan.

Proposed Contractor:

Independent Third Party (Work Items all Task 8.1, Task 8.2, and Task 8.4)

Description of Applicant Criteria

The applicant should: (1) demonstrate applicant's ability to perform scope of work as prepared by the Study Commission. This should include but is not limited to previous projects of a similar nature. (2) provide qualifications of individuals that will be directly involved in the work product and deliverables; (3) show a clear understanding of the requirement identified in Section 4.04 of Senate Bill 3 as passed by the 80th Legislature of Texas; and (4) have excellent oral presentation and writing abilities. The Study Commission reserves the right to not accept any or all submissions based on availability of funding and its evaluation of the qualifications as submitted.

The applicant should be prepared to make an oral presentation to the Study Commission, if requested. The scope of work, schedule, and contract amount will be negotiated after the Study Commission selects the most qualified applicant. Failure to reach a negotiated contract may result in subsequent negotiations with the next most-qualified applicant; however, a negotiation will not occur with applicants who are determined by the Study Commission to be unqualified or otherwise unsuited to perform the requested research. Applicants selected to perform work identified in the scope of work will be required to make presentations at one or more of the Study Commission's public meetings.

Deadline for Submittal and Contact Person for Additional Information

Historically Underutilized Businesses (HUBs) are encouraged to submit Statements of Qualifications and/or participate as subcontractors in the water research program. As instructed at Texas Government Code §2161.252 and Texas Administrative Code, Title 34, Part 1, Chapter 20, Subchapter B, §20.14, if the anticipated cost of the study is to exceed $100.000, the applicant must complete a HUB Subcontracting Plan according to: http://www.tbpc.state.tx.us/communities/procurement/prog/hub/hub-subcontracting-plan.

Ten double-sided, double-spaced copies of a completed Statement of Qualifications must be filed with the North Texas Municipal Water District prior to 5:00 p.m., November 7, 2008.

Statements of Qualifications can be directed by mail to Mr. Jim Parks, North Texas Municipal Water District Executive Director, 505 E. Brown Street, P.O. Box 2408, Wylie, Texas, 75098. Questions may be directed to Jim Parks at (972) 442-5405. All questions and responses will be made available to all applicants and will be subject to disclosure under the Open Records Act.

Selection of Consultant/Review Criteria

Ranking of all qualified applications received will be based on the highest combined score as evaluated by the Study Commission. The criteria for scoring each application is available upon request and also at the following Internet address: http://www.twdb.state.tx.us/wrpi/rwp/committee/rgc/rgc.htm

Costs Incurred

All costs directly or indirectly related to the preparation of a response to this SOQ shall be the sole responsibility of and shall be borne by the firm.

Rights of the Study Commission

This RFQ does not commit the Study Commission to enter into a contract, nor does it obligate the Study Commission to pay for any costs incurred in the preparation and submission of proposals or in anticipation of a contract. The Study Commission reserves the right to:

* Make selections or solicit additional responses based on its sole discretion;

* Reject any and all proposals and enter into direct negotiations with any, all or some of the providers whether or not they provided a submittal to this SOQ;

* Issue subsequent Requests for Statements of Qualifications for Proposals;

* Remedy technical errors in the Statements of Qualifications process;

* Approve or disapprove the use of particular sub-consultants; or

* Enter into an agreement with any provider or negotiate with more than one provider for the provision of any, all or some of the listed services.

TRD-200805444
Kenneth L. Petersen
General Counsel
Texas Water Development Board
Filed: October 14, 2008

Appendix H: January 12, 2009 Meeting

Agenda

Minutes

STUDY COMMISSION ON REGION C WATER SUPPLY

OPEN PUBLIC MEETING

Monday, January 12, 2009
1:00 P.M.

The Meeting will be held at:

William B. Travis Building, Room 111
1701 North Congress Avenue
Austin, Texas

AGENDA

I. Call to Order

II. Welcome/Introduction

III. Action Items for Consideration

a. Adoption of Minutes of November 12, 2008, Meeting

b. Review and Consider Approval of Engineering Cost Proposal from Espey Consultants, Inc., to Carry Out the Legislative Charges in Senate Bill 3 Section 4.04 of the 80th Legislative Session and the Scope of Work as Published on Pages 8838 through 8844 of Volume 33, Number 43, of the Texas Register Published on October 24, 2008

c. Consider Authorizing North Texas Municipal Water District, Contract Administrator, to Execute a Contract with Texas Water Development Board for Grant Funds to Carry Out the Legislative Charges in Senate Bill 3 Section 4.04 of the 80th Legislative Session and the Scope of Work as Published on Pages 8838 through 8844 of Volume 33, Number 43, of the Texas Register Published on October 24, 2008, on Behalf of the Study Commission on Region C Water Supply

d. Consider Authorizing North Texas Municipal Water District, Contract Administrator, to Execute a Contract with Espey Consultants, Inc., to Carry Out the Legislative Charges in Senate Bill 3 Section 4.04 of the 80th Legislative Session and the Scope of Work as Published on Pages 8838 through 8844 of Volume 33, Number 43, of the Texas Register Published on October 24, 2008, on Behalf of the Study Commission on Region C Water Supply and Issue a Notice to Proceed

IV. Discussion Items

a. Discussion/Selection of Date, Time, and Location of Next Meeting

b. Public Comment

V. Adjourn

Study Commission on Region C Water Supply

MINUTES OF AN OPEN PUBLIC MEETING
January 12, 2009

The Study Commission on Region C Water Supply (Study Commission) met in an open public meeting on Monday, January 12, 2009, at 1:00 P.M. The meeting was held at the Texas Water Development Board in Room 1-111 the William B. Travis Building in Austin, Texas. Notice of the meeting was legally posted.

I. CALL TO ORDER

Representative Stephen Frost called the meeting to order at approximately 1:10 P.M.

II. WELCOME/INTRODUCTION

The following members were in attendance:

The Honorable Florence Shapiro	Mr. Thomas Duckert
The Honorable Stephen Frost	Mr. Richard LeTourneau
The Honorable Jodie Laubenberg	Mr. Jim Parks

Also in attendance were Ryan Weiseman from Senator Kevin Eltife's office and Jim Boynton from Representative Mark Homer's office. Servando Esparza and Tulsi Reddy of the Senate Natural Resources Committee were also in attendance.

Texas Water Development Board (TWDB) staff attending included: Carolyn Brittin and Angela Masloff. Texas Parks and Wildlife Department (TPWD) staff attending included: Lynne Hamlin, Cyndy Loeffler and Dan Opdike. Representatives of Espey Consultants in attendance included: David Harkins and Tony Smith.

The registration lists signed by guests in attendance are attached.

III. ACTION ITEMS

a. ADOPTION OF MINUTES OF NOVEMBER 12, 2008, MEETING

On a motion by Representative Jodie Laubenberg and a second by Jim Parks, the Study Commission unanimously adopted the minutes from the November 12, 2008 meeting.

b. REVIEW AND CONSIDER APPROVAL OF ENGINEERING COST PROPOSAL FROM ESPEY CONSULTANTS, INC., TO CARRY OUT THE LEGISLATIVE CHARGES IN SENATE BILL 3 SECTION 4.04 OF THE 80TH LEGISLATIVE SESSION AND THE SCOPE OF WORK AS

PUBLISHED ON PAGES 8838 THROUGH 8844 OF VOLUME 33, NUMBER 43, OF THE TEXAS REGISTER PUBLISHED ON OCTOBER 24, 2008

Mr. Parks gave a narrative of the negotiations he and Mr. Duckert engaged in with Epsey Consultants. Because the Study Commission currently has $500,000 in funding, they recommended a phased approach to the implementation of the Study Commission's Scope of Work. This would allow the Study Commission to maximize its initial funding, and tailor additional work according to the amount of appropriations resulting from the 81st Legislative Session.

Phase 1 will focus on the five alternatives listed in Senate Bill 3 namely Marvin Nichols, Wright Patman, Toledo Bend, Lake Texoma, and Lake O' The Pines. Work will include the socio-economic impact analysis and study of water supply alternatives required by Senate Bill 3 (80R). Phase 1 would cost approximately $500,000.

Phase 2a would continue the work begun in Phase 1 for the five alternates named in Senate Bill 3. Phase 2a would complete tasks 1 through 8 for these five alternatives. Phase 2b would be a much more general approach and include all alternatives included in the Region C Water Plan plus any additional alternative missed by the 2007 Water Plan. Phase 2b would also complete tasks 1 through 8 for all alternatives. If the Study Commission chose to implement Phase 1 and Phase 2b, the total cost of the study would be over $2.3 Million. Phase 1 and Phase 2a would cost about $1.5 Million.

The Study Commission reviewed the Legislature's appropriations process and its impact on the Scope of Work's completion. Carolyn Brittin of the TWDB confirmed that the earliest availability of additional funds would be September 1, 2009. Because Epsey anticipates completing Phase 1 by June 1, the study would experience a funding gap until 81st Legislature appropriations took effect. According to Epsey representative David Harkins, a three or four month hiatus from Study Commission work would jeopardize the Study Commission's ability to finish its work within the mandated timeframe. It would also reduce efficiency and potentially increase expenses. Ms. Brittin indicated that TWDB would attempt to fill in the gap so that work could proceed on schedule. Mr. Harkin noted that Epsey would do its part to meet the Study Commission part-way, in order to avoid any interruption in work.

On a motion by Representative Laubenberg and a second by Richard LeTourneau, the Study Commission unanimously agreed to authorize the funding of Phase 1.

Prior to voting on the motion, comments were received from the following individuals:

i. David Nabors
ii. Linda Price

c. CONSIDER AUTHORIZING NORTH TEXAS MUNICIPAL WATER DISTRICT, CONTRACT ADMINISTRATOR, TO EXECUTE A CONTRACT WITH TEXAS WATER DEVELOPMENT BOARD FOR GRANT FUNDS TO CARRY OUT THE LEGISLATIVE CHARGES IN SENATE BILL 3 SECTION 4.04 OF THE 80TH LEGISLATIVE SESSION AND THE SCOPE OF WORK AS PUBLISHED ON PAGES 8838 THROUGH 8844 OF VOLUME 33, NUMBER 43, OF THE TEXAS REGISTER PUBLISHED ON OCTOBER 24, 2008, ON BEHALF OF THE STUDY COMMISSION ON REGION C WATER SUPPLY

On a motion by Senator Florence Shapiro, and a second by Tom Duckert, the Study Commission unanimously authorized the North Texas Municipal Water District (NTMWD) to execute a contract with the Water Development Board in order to carry out the legislative charges dictated by SB 3(80R), as outlined in the Study Commission's Scope of Work.

d. CONSIDER AUTHORIZING NORTH TEXAS MUNICIPAL WATER DISTRICT, CONTRACT ADMINISTRATOR, TO EXECUTE A CONTRACT WITH ESPEY CONSULTANTS, INC., TO CARRY OUT THE LEGISLATIVE CHARGES IN SENATE BILL 3 SECTION 4.04 OF THE 80TH LEGISLATIVE SESSION AND THE SCOPE OF WORK AS PUBLISHED ON PAGES 8838 THROUGH 8844 OF VOLUME 33, NUMBER 43, OF THE TEXAS REGISTER PUBLISHED ON OCTOBER 24, 2008, ON BEHALF OF THE STUDY COMMISSION ON REGION C WATER SUPPLY AND ISSUE A NOTICE TO PROCEED

On a motion by Senator Shapiro, and a second by Representative Laubenberg, the Study Commission unanimously authorized NTMWD to execute a contract with Espey Consultants in order to carry out the legislative charges dictated by SB 3(80R), as outlined in the Study Commission's Scope of Work.

IV. DISCUSSION ITEMS

a. DISCUSSION/SELECTION OF DATE, TIME, AND LOCATION OF NEXT MEETING

On a motion by Representative Laubenberg, and a second by Senator Shapiro, the Commission agreed to set its next meeting in Austin, Texas in late May or early June. Exact time and location will be determined based on the Legislature's completion of the appropriations process in the 81st Legislative Session. Notice of the meeting will be posted at the earliest possible juncture, and in compliance with Open Meetings Act requirements.

b. PUBLIC COMMENT

Public comments were received from the following individuals:

i. George Frost
ii. Mary Katherine Grant
iii. David Nabors
iv. Gary Grant

V. ADJOURN

There being no further business, the meeting of the Study Commission on Region C Water Supply adjourned at approximately 2:10 P.M.

SENATOR FLORENCE SHAPIRO
Co-Presiding Officer

REPRESENTATIVE STEPHEN FROST
Co-Presiding Officer

STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
JANUARY 12, 2009

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Max Shumake	self + SOS	MaxShumake@AOL.Com
2	George Frost	Public	Gfrost003@Aol.Com
3	Monica Frost	Self	
4	Janice Bezanson	Tx Conservation Alliance	Bezanson@texas.net
5	Shirley Shumake	SOS	hotloway@crossing@aol.com
6	GARY GRANT	FAMILY - RED RIVER CO.	GARY_J_75165@SBCGLOBAL.NET
7	Cindy Loeffler	~~TPWD~~ TPWD	Cindy.Loeffler@tpwd.state.tx.us
8	DAN OPDYKE	TPWD	dan.opdyke@tpwd.state.tx.us
9	John F. Morley	Self - SOS	joro1120@earthlink.net
10	Walt Sears	NETMWD	netmwd@aol.com
11	ANGELA MASLOFF	TWDB	angela.masloff@twdb.state.tx.us
12	Ryan Weiseman	Sen Ellis	
13	Linda Price	Ward Timber	Linda.price@wardtimber.com
14	Brittanie W. Lowery	Ward Timber	Brittaniewtc@AOL.com
15	Tulsi Reddy	Sen. Nat. Res.	tulsi.reddy-sc@senate.state.tx.us.
16	Servando Esparza	Sen. Nat. Res Committee	servando.esparza-sc@senate.state.tx.us
17	Melisa Fuller	North Texas Municipal Water District	mfuller@ntmwd.com
18	Mike Rickman	" " " "	jparks@ntmwd.com
19	Jim Boynton	Rep Mark Homer	jim.boynton@house....
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STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
JANUARY 12, 2009

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Judy Grant	self	
2	PATSY CLAPPER	Rep. Stephen Frost	
3	David Hankins	Espey Consultants	dhankins@espeyconsultants.com
4	Temple McKinnon	TWDB	temple.mckinnon@twdb.state.tx.us
5	David Bezanson	TNC	dbezanson@tnc.org
6	BRINTON PAYNE	FW CHAMBER	bpayne@fortworthchamber.com
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STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
JANUARY 12, 2009

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	David Nabors	Landowner	
2	Sharron Nabors	Region D	
3	Lynne Hamlin	TPWD	Lynne.Hamlin@TPWD.STATE.TX.US
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STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
JANUARY 12, 2009

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	ROSEMARIE KLEE	N/A	RMKLEE@CRESPOINC.COM
2	Tony Smith	Espey Consultants Inc.	tsmith@espeyconsultants.com
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STUDY COMMISSION ON REGION C WATER SUPPLY
ATTENDANCE ROSTER
JANUARY 12, 2009

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Mary Catherine Grant	Self	Boxeldergrant@netscape.com
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Appendix I: September 24, 2009 Meeting

Agenda

Minutes

Presentation: Status of Phase 1 Work by David Harkins

STUDY COMMISSION ON REGION C WATER SUPPLY

OPEN PUBLIC MEETING

Thursday, September 24, 2009
1:00 P.M.

The Meeting will be held at:

Texarkana College
Truman Arnold Student Center
Great Room
2500 North Robison Road
Texarkana, Texas 75599

AGENDA

I. Call to Order

II. Welcome/Introduction

III. Action Items for Consideration

a. Approval of Minutes of January 12, 2009, Meeting

b. Review and Consider Approval of the Phase I Draft Report as Prepared by Espey Consultants, Inc.

c. Review and Consider Approval of Work for Phase II Contingent Upon Funding Availability from the Texas Water Development Board (TWDB)

d. Consider Approval of Maximum Not-to-Exceed Engineering Fee for Phase II as Authorized by the Study Commission

e. Consider Authorizing North Texas Municipal Water District, Contract Administrator, to Execute a Contract Amendment with the Texas Water Development Board for Grant Funds to Carry Out the Legislative Charges in Senate Bill 3 Section 4.04 of the 80th Legislative Session and the Scope of Work for Phase II as Authorized by the Study Commission

f. Consider Authorizing North Texas Municipal Water District, Contract Administrator, to Execute a Contract Amendment with Espey Consultants, Inc., to Carry Out the Legislative Charges in Senate Bill 3 Section 4.04 of the 80th Legislative Session and the Scope of Work for Phase II as Authorized by the Study Commission

IV. Discussion/Selection of Date, Time, and Location of Next Meeting

V. Public Comment

VI. Adjourn

Study Commission on Region C Water Supply

MINUTES OF AN OPEN PUBLIC MEETING
September 24, 2009

The Study Commission on Region C Water Supply (Study Commission) met in an open public meeting on Thursday, September 24, 2009, at 1:00 P.M. The meeting was held in the Great Room of the Truman Arnold Center at Texarkana College in Texarkana, Texas. Notice of the meeting was legally posted.

I. CALL TO ORDER

Senator Florence Shapiro called the meeting to order at approximately 1:05 P.M.

II. WELCOME/INTRODUCTION

The following members were in attendance:

The Honorable Florence Shapiro	Mr. Thomas Duckert
The Honorable Stephen Frost	Mr. Richard LeTourneau
The Honorable Jodie Laubenberg	

Mr. Mike Rickman attended as Jim Park's previously designated alternate.

Also in attendance were: Eric Cain and Marjorie Chandler from Congressman Ralph Hall's office and Dee Farmer from Senator Kevin Eltife's office.

Texas Water Development Board (TWDB) staff attending included: Carolyn Brittin and Temple McKinnon. David Harkins attended as a representative of Espey Consultants.

The registration lists signed by guests in attendance are attached.

III. ACTION ITEMS FOR CONSIDERATION

a. ADOPTION OF MINUTES OF JANUARY 12, 2009, MEETING

On a motion by Richard LeTourneau it was the consensus of the Study Commission to adopt the minutes from the January 12, 2009 meeting.

b. REVIEW AND CONSIDER APPROVAL OF THE PHASE I DRAFT REPORT AS PREPARED BY ESPEY CONSULTANTS, INC.

Dr. David Harkins gave a synopsis of the Phase I draft report. Dr. Harkins anticipated a recommendation that Phase II focus on data gaps associated with Lake Wright Patman and Lake o' the Pines. However, he asked that the

Commission first provide counsel to Epsey in order to improve the Phase I draft for completion and approval.

On a motion by Representative Jodie Laubenberg it was the consensus of the Study Commission to appoint Jim Parks and Tom Duckert to provide this counsel to Epsey.

Dr. Harkins indicated that with this counsel, Epsey would be able to turn around a draft for the Commission's approval within a month.

c. REVIEW AND CONSIDER APPROVAL OF WORK FOR PHASE II CONTINGENT UPON FUNDING AVAILABILITY FROM THE WATER DEVELOPMENT BOARD (TWDB).

Senator Shapiro called on Carolyn Brittin of the TWDB to give her comments on Phase I. Ms. Brittin, at the request of Senator Shapiro and Representative Stephen Frost, agreed to coordinate with Mr. Parks, Mr. Duckert, and Epsey on the Phase I report's completion. Ms. Brittin also agreed, at Representative Frost's request, to would look into resources that the Commission could use to complete its tasks without expending additional money.

Senator Shapiro asked Mr. John Jarvis, Executive Director of Riverbend Water Resources, to discuss the results of Senate Bill 1223 (80R) as it pertains to Lake Wright Patman. Mr. Jarvis expressed his optimism that the creation of Riverbend Water Resources will facilitate the expanded use of Wright Patman as a water source for Region C.

Mr. LeTourneau asked that speakers from the Sabine River Authorities of Texas and Louisiana be invited to make presentations. Senator Shapiro agreed that these presentations could occur at the Commission's next meeting.

d. CONSIDER APPROVAL OF MAXIMUM NOT-TO-EXCEED ENGINEERING FEE FOR PHASE II AS AUTHORIZED BY THE STUDY COMMISSION

The Commission agreed to defer this item until the next meeting, after the Phase I report is completed and approved.

e. CONSIDER AUTHORIZING NORTH TEXAS MUNICIPAL WATER DISTRICT, CONTRACT ADMINISTRATOR, TO EXECUTE A CONTRACT AMENDMENT WITH THE TEXAS WATER DEVELOPMENT BOARD FOR GRANT FUNDS TO CARRY OUT THE LEGISLATIVE CHARGES IN SENATE BILL 3 SECTION 4.04 OF THE 80th LEGISLATIVE SESSION AND THE SCOPE OF WORK FOR PHASE II AS AUTHORIZED BY THE STUDY COMMISSION

The Commission agreed to defer this item until the next meeting, after the Phase I report is completed and approved.

f. CONSIDER AUTHORIZING NORTH TEXAS MUNICIPAL WATER DISTRICT, CONTRACT ADMINISTRATOR, TO EXECUTE A CONTRACT AMENDMENT WITH ESPEY CONSULTANTS, INC TO CARRY OUT THE LEGISLATIVE CHARGES IN SENATE BILL 3 SECTION 4.04 OF THE 80th LEGISLATIVE SESSION AND THE SCOPE OF WORK FOR PHASE II AS AUTHORIZED BY THE STUDY COMMISSION

The Commission agreed to defer this item until the next meeting, after the Phase I report is completed and approved.

IV. DISCUSSION/ SELECTION OF DATE, TIME, AND LOCATION OF NEXT MEETING

The Commission agreed to schedule a meeting on November 5, 2009, at a location to be determined in Region C. The meeting will take place at 1:00 PM and notice of the meeting will be legally posted with further details.

V. PUBLIC COMMENT

Public comments were received from the following individuals:

i. John McConnell
ii. Red Birdsong
iii. George Frost
iv. Nancy Clement
v. Barney Krebs
vi. Gary Cheatwood
vii. Jim Thompson
viii. David Nabors
ix. Dr. Jane Morris
x. Jerry Boatner, Mayor of Mt. Pleasant
xi. Ann Rushing, Mayor of Clarksville
xii. Ron Hufford
xiii. Sharon Nabors

VI. ADJOURN

There being no further business, the meeting of the Study Commission on Region C Water Supply adjourned at approximately 2:55 P.M.

SENATOR FLORENCE SHAPIRO
Co-Presiding Officer

REPRESENTATIVE STEPHEN FROST
Co-Presiding Officer

Name	Address, City, Zipcode	Telephone	Fax	Email
Richard LeTourneau	PO Box 12071 Longview, TX 75607	903-668-1043		richardoii@aol.com
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Wayne Owen	Tarrant Regional Water District	817 720 4357		wayne.owen@trwd.com
Ron Hufford	Texas Forestry Assoc.	936-632-8733		rhufford@texasforestry.org
Wayne Rhoads	20 Lauren Lane, TXR 75503	903-831-6075		WAYMAR1@valornet.com
Sheri New	9978 FM Rd 3129 Queen City TX	903 796 1624		Sheri.New@IP.com
David H. Frost	13251 Tx Hwy 77 W Douglassville Tex	903-846-4465		
David Harkins	3809 S. 2nd Street Austin TX 78704	512-326-5659		
Charles Henderson	450 W Pine Ashdown AR 71822	870-898-3064		
James B. Harper	2613 Hwy 32 W Foreman, AR 71836	870-542-5591		
Walt Sears	Box 955 Hughes Springs TX	903-639-7538		netmwd@aol.com
Temple McKinnon	P.O. Box 13231 Austin TX 78711	512-475-2057		temple.mckinnon@twdb.state.tx.us
Carly Anderson	3500 Pine St. Texarkana TX	903-794-9993		canderson@texarkanalaw.com
Allen Birdsong	4181 Silver Dome Rd 100 Denton Tx 76208	940 381 1568		shiftyz@msn.com
[illegible signature]	Redwater TEX			

Name	Address, City, Zipcode	Telephone	Fax	Email
Kevin Driscoll	2803 Stonegate Dr, Texarkana, TX	(903)826-4509	(903)796-1960	Kevin.driscoll@ipaper.com
Rick Rodenroth	108 Hwy 71 S., Ashdown, AR 71822	870 898-5006	870 898-5604	richard.rodenroth@domtar.com
David Cothren	1312 2nd Street Queen City TX 75572	903-796-6108	903-796-1969	David.Cothren@iPaper.com
Bordon Bell	3 Highcrest Texarkana, TX 75503	903-792-6543		bbttc@Yahoo.com
Jim Thompson	P.O. Box 1107 Atlanta, TX 75551	903 799 5331	903 796-6366	jimthompson@wardtrade.c
Vatra Solomon	516 Azalea Ln. Mt. Pleasant	572-2973		
Pat Tomberlain	5357 FM 2328 Atlanta	903-796-7835		
Rick Lowerre	707 Rio Grande Austin TX	512 469 6000	-	
Barney Kuba	9491 Hwy 59 South TX TX	903-832-2151		
DON GAINES	561 CR4621, ANNONA, TX	903-697-3815		
Don Hardwick	Rt 3 Box 548-2 B.B OK 74728	(580)-286-1855		DGHARDWICK@YAHOO.COM
Stephen Frost				
Carol H. Leftwich	P.O. Box 593 Hughes Springs, TX 75656			
David T Neeley	3657 FM 1734 Mt Pleasant TX 75455			
David Nabors	1822 E Polk Paris, TX 75460	903-784-3142		NO

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Darrell Grubbs	P.O. Box 650 Mount Pleasant, TX 75455	903-572-1844		dgrubbs@tcfreshwater.com
JERRY BOATNER	504 Redfearn Ct Mount Pleasant TX	903 572 7528		jerryboatner@gmail.com
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Brandy Chewning	TxK Gazette	903-794-3311		
Brittanie Lowery	P.O. Box 360 Linden, TX	903-756-8955		
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Sharron Nabors	1822 E. Polk [illegible]	903 784 3142		
David Nabors	1822 E. Polk [illegible]	9037843142		
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Loretta Hale	PO Box 457 New Boston TX 75570	903-628-3062		lf_hale@hotmail.com
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James Presley	417 West 27th St. TX, TX			
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Casey Johnson	Texarkana College	903-E03-3912		kpodocain22@ychoo.com
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Name	Address, City, Zipcode	Telephone	Fax	Email
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Gary & Dolores Cheatwood	3705 FM 1487, Bogata, TX 75417	903-632-4124		cheatwood@neto.com.
Nancy Clements	4369 Co Rd 2116 Douglassville, TX 75560	903-846-2743		nclements64@yahoo.com
Bessie Neal Heath	P.O. Box 54 " "	903-846-4103		
Delores McCright	POB 5002 Texarkana TX 75505			mdmccright@aol.com
Ruth Frost	13251 TX Hwy 77W Douglassville TX 75506			
Doug Wadley	9978 FM 3129 Queen City TX 75572	903-796-1638		doug.wadley@ipaper.com
John McConnell	19764 TX Hwy 37 S. Bogata TX 75417	903 632-0078		
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Sandy Cash	CR NE 2120 Talco, TX 75487	903-717-1349		skacash@aol.com
[illegible signature]	406 U.S. Highway 82 West, New Boston TX 75570	903-628-2855		
[illegible signature]	P.O. Box 318, Clarksville TX 75426	903-427-3834		abrushing@cebridge.net
James Staggers	4112 Prairie Ln Texarkana AR	870 773 1380		

Region C Study Commission Phase I Draft Report

David Harkins, Ph. D., P.E.
Espey Consultants, Inc.
September 24, 2009

Espey Consultants, Inc.
3809 S. 2nd Street, B-300
Austin, TX 78753
512.326.5659

Phase I Region C Study Commission Team

- Espey Consultants, Inc.
  - Carollo Engineers
  - Crespo Consulting Services
  - Harkins Engineering, Inc.
  - Jack Stowe & Company

Phase I: Scope of Work

- Literature Review
- Data Gap Analysis
- Identified Strategies
  - Lake Wright Patman
  - Marvin Nichols Reservoir
  - Lake Texoma
  - Toledo Bend Reservoir
  - Lake O' The Pines

Objective

- The objective was to gather information and explore possible water management strategies that provide a comparable volume to the Marvin Nichols project as a reasonable equivalent alternative.

Entities Contacted

- Texas State Agencies:
  - Texas Water Development Board (TWDB);
  - Texas Commission on Environmental Quality (TCEQ);
  - Texas Parks and Wildlife Department (TPWD);
  - Texas Department of Agriculture (TDA);
  - Texas Soil and Water Board (TSWB);
  - Texas Historical Commission (THC); and,
  - General Land Office (GLO);
- Oklahoma State Agencies:
  - Oklahoma Water Resources Board (OWRB);
  - Oklahoma Department of Environmental Quality (ODEQ);
  - Oklahoma Department of Wildlife Conservation (ODWC);
  - Oklahoma Water Resources Research Institute (OWRRI); and,
  - Red River Compact Commission.

Entities Contacted (continued)

- Select Water Districts:
  - Tarrant Regional Water District (TRWD);
  - North Texas Municipal Water District (NTMWD);
  - Northeast Texas Municipal Water District (NETMWD);
  - Upper Trinity River Authority (UTRA); and
  - Greater Texoma Utility Authority (GTUA).
- Select Major Cities:
  - City of Dallas;
  - City of Fort Worth; and
  - City of Irving.

Entities Contacted (continued)

- Federal Agencies:
  - U.S. Geological Survey (USGS);
  - U.S. Fish and Wildlife;
  - U.S. Bureau of Reclamation;
  - U.S. Army Corp of Engineers (USACE); and
  - U.S. Department of the Interior.

- Select River Authorities:
  - Red River Authority of Texas;
  - Sabine River Authority of Texas;
  - Sabine River Authority of Louisiana;
  - Sulphur River Basin Authority; and
  - Trinity River Authority.

Entities Contacted (continued)

- Select Universities:
  - North Texas;
  - Texas A&M Institute of Renewable Natural Resources;
  - Texas A&M Water Resources Institute; and
  - Texas A&M Center for Sustainable Water Systems.
- Journal Articles Referenced in the following databases:
  - Applied Science and Technology; and
  - Water Resource Abstracts.
- Interest Groups.
  - National Wildlife Federation;
  - Sierra Club;
  - Environmental Defense Fund;
  - Tarrant Coalition for Environmental Awareness; and
  - Northeast Texas Water Coalition.

Data Collection

- Collected reports and data from 1985 to present (in most cases).
- Over 200 documents were obtained.
- Many conversations with entities across the state (included in Appendix C of the Draft).

Literature Review

- Documents were collected and compiled on the Webserver.
- Documents were reviewed for content and applicability.
- A comprehensive list was created detailing each study that included:
  - Synopsis of each study,
  - Title, date, sponsor, author,
  - Type of study, subject matter and relevant information.

Literature Review (continued)

- The comprehensive list is included as Appendix A to the Draft report.
- Individual abstracts were created for each document and included in Appendix B.
- A literature review was performed for each of the selected strategies.

Data Gap Analysis

- A data gap analysis was performed for each of the five strategies identified in the original scope.
- These data gaps can be classified into three groups (planning, permitting, and design).
- Due to funding issues, a ranking of the data gaps was performed to allow for the development of a list of possible areas for further study in Phase II.

Data Gap Ranking

- Each of the data gaps will need to be addressed at some point in the future if the strategies are to be utilized (in the planning, permitting, or design phases of the projects).
- The ranking is based on providing the most information for the available budget for a comparable water strategy alternative to Marvin Nichols Reservoir.
  - Lake Wright Patman
  - Lake O' The Pines
  - Marvin Nichols
  - Lake Texoma
  - Toledo Bend Reservoir

Phase I Draft Report

- First draft presented to the Study Commission.
- Developed without input from Study Commission.
- Additional guidance needed to finalize document.
- Phase II investigations.

Data Gap Analysis-Wright Patman

- What operating level of WP is reasonable due to the White Oak Mitigation facility?
- What is the expected yield of WP under the most reasonably achievable operating scenarios?
- For each operating scenario considered, what additional information must be gathered to allow consideration of this strategy as a reasonably equivalent alternative to Marvin Nichols. Can this work be done in the time remaining?
- What volume of water is available from WP after giving consideration to existing water rights holders, anticipated local needs over the term of a contract period, unexpected local need and retained local excess surplus supply for drought protection?

Data Gap Analysis-Wright Patman

- In order to increase the water supply yield of WP, what action is needed from the following organizations or agencies?
  - US Legislature
  - Texas Legislature
  - USACE
  - TCEQ
  - TWDB
- What are the mitigation impacts for each change in reservoir operation considered?
- What is the current procedure and process for evaluating mitigation and developing a Mitigation Plan?
- What role could recent rules for mitigation banking play in each scenario?

Socioeconomic Impact Summary

Socioeconomic Impact Summary

- Goals
  - Review available literature.
  - Determine methodology used and identify the “gaps” between the studies.
  - Provide recommendations as to how to bridge those gaps.

- Key Question:

  How can two studies using similar methodologies produce different results and how can this be avoided?

Elements of Socioeconomic Impact Analysis

Inputs (Assumptions)

Model (IMPLAN Software)

Output (Quantified Impact)

Gaps Identified

- Consistency
  - Lack of consistency in methods, assumptions used, impacts quantified, application of IMPLAN model and use of results.
  - Only consistency is actual use of IMPLAN.
- Focus
  - Studies appear to be focused based on the entity / organization that commissioned the study.
  - Some studies are narrowly focused / some broadly focused.
  - Some focus only on negative impacts, others on all impacts.
  - Leads to inconsistent results.
- Assumptions
  - Variation in assumptions leads to inconsistencies.
  - Selective use of assumptions drives focus.

Questions or Comments

Espey Consultants, Inc.
3809 S. 2nd Street, B-300
Austin, TX 78753

Appendix J: November 20, 2009 Meeting

Agenda

Minutes

Presentation: Status of Phase 1 Work by David Harkins

Handout: Sabine River Authority by Butch Choate

STUDY COMMISSION ON REGION C WATER SUPPLY

OPEN PUBLIC MEETING

Friday, November 20, 2009
1:00 P.M.

The Meeting will be held at:
McDermott Library
University of Texas at Dallas
800 West Campbell Road
Richardson, Texas 75080

AGENDA

I. Call to Order

II. Welcome/Introduction

III. Action Items for Consideration

a. Approval of Minutes of September 24, 2009, Meeting

b. Review and Consider Approval of the Phase I Draft Report as Prepared by Espey Consultants, Inc.

c. Review and Consider Approval of Work for Phase II Contingent Upon Funding Availability from the Texas Water Development Board (TWDB)

d. Consider Approval of Maximum Not-to-Exceed Engineering Fee for Phase II as Authorized by the Study Commission

e. Consider Authorizing North Texas Municipal Water District, Contract Administrator, to Execute a Contract Amendment with the Texas Water Development Board for Grant Funds to Carry Out the Legislative Charges in Senate Bill 3 Section 4.04 of the 80th Legislative Session and the Scope of Work for Phase II as Authorized by the Study Commission

f. Consider Authorizing North Texas Municipal Water District, Contract Administrator, to Execute a Contract Amendment with Espey Consultants, Inc., to Carry Out the Legislative Charges in Senate Bill 3 Section 4.04 of the 80th Legislative Session and the Scope of Work for Phase II as Authorized by the Study Commission

IV. Presentation from the Sabine River Authority (SRA) of Texas

V. Discussion/Selection of Date, Time, and Location of Next Meeting

VI. Public Comment

VII. Adjourn

Study Commission on Region C Water Supply

MINUTES OF AN OPEN PUBLIC MEETING
November 20, 2009

The Study Commission on Region C Water Supply (Study Commission) met in an open public meeting on Friday, November 20, 2009, at 1:00 P.M. The meeting was held in the McDermott Library at the University of Texas at Dallas in Richardson, Texas. Notice of the meeting was legally posted.

I. CALL TO ORDER

Representative Stephen Frost called the meeting to order at approximately 1:10 P.M.

II. WELCOME/INTRODUCTION

The following members were in attendance:

The Honorable Stephen Frost	Mr. Thomas Duckert
The Honorable Jodie Laubenberg	Mr. Richard LeTourneau
	Mr. Jim Parks

The Honorable Jerry Madden attended as Senator Florence Shapiro's previously designated alternate.

Texas Water Development Board (TWDB) staff attending included: Carolyn Brittin and Temple McKinnon. David Harkins attended as a representative of Espey Consultants.

The registration lists signed by guests in attendance are attached.

III. ACTION ITEMS FOR CONSIDERATION

a. ADOPTION OF MINUTES OF SEPTEMBER 24, 2009 MEETING

On a motion by Representative Jodie Laubenberg and a second by Tom Duckert, the Study Commission unanimously adopted the minutes from the September 24, 2009, meeting.

b. REVIEW AND CONSIDER APPROVAL OF THE PHASE I DRAFT REPORT AS PREPARED BY ESPEY CONSULTANTS, INC.

Representative Frost called upon Dr. David Harkins of Espey Consultants, Inc., to make a presentation on the progress of the Phase I draft report. Dr.

Harkins discussed the changes Espey made to the draft report, focusing on format and readability.

Espey ranked each water source according to the achievability of closing identified data gaps. These rankings were based on the cost and time of obtaining information to close the gaps, as well as other factors.

Dr. Harkins identified Wright Patman and Lake O' the Pines as the highest ranked water sources. He discussed the data gaps for each water source, as well as the challenges associated with filling each gap.

Representative Frost called on Walt Sears, Administrator of the Northeast Texas Municipal Water District (NETMWD), to discuss a hydrographic survey currently being conducted to answer planning gaps for Lake O' the Pines. TWDB contracted the survey with NETMWD and North Texas Municipal Water District (NTMWD); the project is in cooperation with the U.S. Army Corps of Engineers. Mr. Sears indicated that the survey will be complete by late spring, and available for the Commission to use as part of its final report.

Mr. Duckert and Mr. Parks each confirmed that the Phase I draft report had achieved much progress. They indicated the continued need to check format consistencies and make technical adjustments. Because of this, they recommended that the Commission wait to approve the draft, and keep it as a work in progress.

On a motion by Representative Laubenberg and a second by Representative Jerry Madden, the Commission unanimously instructed Mr. Duckert and Mr. Parks to continue work with Espey on the Phase I draft report.

c. REVIEW AND CONSIDER APPROVAL OF WORK FOR PHASE II CONTINGENT UPON FUNDING AVAILABILITY FROM THE WATER DEVELOPMENT BOARD (TWDB)

On a motion from Representative Laubenberg and a second by Representative Madden, the Commission unanimously authorized Mr. Duckert and Mr. Parks to work with Espey Consultants and TWDB to develop a scope of work for Phase II. As long as the scope of work fits into available funds, the Commission authorized Phase II work to commence.

d. CONSIDER APPROVAL OF MAXIMUM NOT-TO-EXCEED ENGINEERING FEE FOR PHASE II AS AUTHORIZED BY THE STUDY COMMISSION

Because no funds remain for the Commission's work and the Commission's intent is to execute Phase II within existing funds, the Commission found no action was necessary on this item. Ms. Brittin confirmed that the action taken on item III(c) was sufficient to progress into Phase II.

e. CONSIDER AUTHORIZING NORTH TEXAS MUNICIPAL WATER DISTRICT, CONTRACT ADMINISTRATOR, TO EXECUTE A CONTRACT AMENDMENT WITH THE TEXAS WATER DEVELOPMENT BOARD FOR GRANT FUNDS TO CARRY OUT THE LEGISLATIVE CHARGES IN SENATE BILL 3 SECTION 4.04 OF THE 80th LEGISLATIVE SESSION AND THE SCOPE OF WORK FOR PHASE II AS AUTHORIZED BY THE STUDY COMMISSION

On a motion by Representative Laubenberg, and a second by Richard LeTourneau, the Commission unanimously agreed to authorize NTMWD to execute a contract amendment with TWDB for Phase II. Mr. Duckert and Mr. Parks will notify the entire commission before they move forward on any new step of the process.

f. CONSIDER AUTHORIZING NORTH TEXAS MUNICIPAL WATER DISTRICT, CONTRACT ADMINISTRATOR, TO EXECUTE A CONTRACT AMENDMENT WITH ESPEY CONSULTANTS, INC TO CARRY OUT THE LEGISLATIVE CHARGES IN SENATE BILL 3 SECTION 4.04 OF THE 80th LEGISLATIVE SESSION AND THE SCOPE OF WORK FOR PHASE II AS AUTHORIZED BY THE STUDY COMMISSION

On a motion by Representative Madden and a second by Mr. LeTourneau, the Commission amended the prior motion to additionally authorize NTMWD to execute a contract amendment with Espey for Phase II, if necessary.

IV. PRESENTATION FROM THE SABINE RIVER AUTHORITY (SRA) OF TEXAS

Danny "Butch" Choate made a presentation as representative of the Sabine River Authority (SRA) of Texas. He spoke of the water resources in the Sabine River Basin, and included information about each source's capacity, current availability and potential capacity.

The Commission discussed the reasons for differences in proposed amounts of water that might be available from Toledo Bend Reservoir. Discussion also centered on Toledo Bend's place in the Region C Water Plan, and the

continuing efforts by Dallas Water Utilities, North Texas Municipal Water District, and Tarrant Regional Water District to develop agreements with SRA-Texas for water from Toledo Bend to Region C.

V. DISCUSSION/ SELECTION OF DATE, TIME, AND LOCATION OF NEXT MEETING

The Commission agreed to schedule a meeting on January 14, 2010, at a location to be determined in Region D. The meeting will take place at 1:00 PM and notice of the meeting will be legally posted with further details.

VI. PUBLIC COMMENT

Public comments were received from the following individuals:

i. George Frost
ii. John McConnell

VII. ADJOURN

There being no further business, the meeting of the Study Commission on Region C Water Supply adjourned at approximately 3:25 P.M.

SENATOR FLORENCE SHAPIRO
Co-Presiding Officer

REPRESENTATIVE STEPHEN FROST
Co-Presiding Officer

STUDY COMMISSION ON REGION C WATER SUPPLY

MCDERMOTT LIBRARY, UNIVERSITY OF TEXAS AT DALLAS, 800 CAMPBELL ROAD, RICHARDSON, TEXAS 75080

ATTENDANCE ROSTER

November 20, 2009

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Stephen Frost	Region D	
2	Adam Whisenant	TPWD	Adam.Whisenant@tpwd.state.tx.us
3	Rick Lowerre	Lowerre + Frederick	rl@lf-lawfirm.com
4	MIKE HUDDLESTON	REGION D	MIKEH@CONSPECTX.COM
5	Steve Mayo	REGION D	Stevemayo@mayofurniture
6	George Frost		GFrost003@aol.com
7	Carolyn Brittin	Region C	carolyn.brittin@twdb.state.tx.us
8	Glenn C. Clingenpeel	Region C	clingenpeelg@trinityra.org
9	Ryan Weiseman	Sen Eltife	ryan.weiseman@senate.state.tx.us
10	Brandy Chewning	TXE Gazette	
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STUDY COMMISSION ON REGION C WATER SUPPLY

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ATTENDANCE ROSTER

November 20, 2009

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4	Butch Choate	Sabine River Authority	bchoate@SRATX.ORG
5	[illegible]	State Rep Dist 67	[illegible]@aol.com
6	Alison Mackey	Alison Mackey	mackeya@trinityra.org
7	GARY SAVANYU	CRIADO	gsavanyu@criadoassociates.com
8	Tanner Spendley	Texarkana Gazette	
9	Wayne Owen	TRWD	wayne.owen@trwd.com
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STUDY COMMISSION ON REGION C WATER SUPPLY

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ATTENDANCE ROSTER

November 20, 2009

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Marie Martin	Rep. Stephen Frost	marie.martin@house.state.tx.us
2	David Nabors	Landowner	
3	Sharron Nabors	landowner	
4	Gary W. Cheatwood	LANDOWNER	cheatwood@neto.com
5	Chris Ekrut	J. Steve & Co.	cekrut@jsteveco.com
6	John McConnell	John McConnell	JDMc@mt-vernon.com
7	~~JOHN TARVIS~~	RWRD	JJARVIS@RIVERBENDWATERRESOURCES.COM
8	Temple McKinnon	TWDB	temple.mckinnon@twdb.state.tx.us
9	David Neeley	SRBA	dneeleytx@msn.com
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Please Sign IN

STUDY COMMISSION ON REGION C WATER SUPPLY

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ATTENDANCE ROSTER

November 20, 2009

	PRINTED NAME	REPRESENTING	E-MAIL ADDRESS
1	Pat Wommack	SRBA	—
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Region C Study Commission Phase I Draft Report

David Harkins, Ph. D., P.E.

Espey Consultants, Inc.

November 20, 2009

Phase I Region C Study Commission Team

- Espey Consultants, Inc.
  - Carollo Engineers
  - Crespo Consulting Services
  - Harkins Engineering, Inc.
  - Jack Stowe & Company

Phase I: Scope of Work

- Literature Review
- Data Gap Analysis
- Identified Strategies
  - Lake Wright Patman
  - Marvin Nichols Reservoir
  - Lake Texoma
  - Toledo Bend Reservoir
  - Lake O' The Pines

Objective

- The objective was to gather information and explore possible water management strategies that provide a comparable volume to the Marvin Nichols project as a reasonable equivalent alternative.

Phase I Draft Report

- First draft presented to the Study Commission (September 24, 2009).
- Additional guidance and comments from TWDB, Study Commission Members (Early November).
- Comments incorporated into current Draft Report.

Data Collection

- Collected reports and data from 1985 to present (in most cases).
- Over 200 documents were obtained.
- Many conversations with entities across the state (included in Appendix C of the Draft).

Literature Review

- Documents were collected and compiled on the Webserver.
- Documents were reviewed for content and applicability.
- A comprehensive list was created detailing each study that included:
  - Synopsis of each study,
  - Title, date, sponsor, author,
  - Type of study, subject matter and relevant information.

Data Gap Analysis

- A data gap analysis was performed for each of the five strategies identified in the original scope.
- These data gaps can be classified into two groups (planning or permitting/design).
- Due to funding issues, a ranking of the data gaps was performed to allow for the development of a list of possible areas for further study.

Data Gap Ranking

- Each of the data gaps will need to be addressed at some point in the future if the strategies are to be utilized (in the planning or permitting/design).
- The ranking is based on providing the most information for the available budget for a comparable water strategy alternative to Marvin Nichols Reservoir.
  - Lake Wright Patman
  - Lake O' The Pines
  - Marvin Nichols
  - Lake Texoma
  - Toledo Bend Reservoir

Lake Wright Patman

- Voluntary redistribution of water resources (57,000 afpy).
- Reallocation of flood storage up to 228.64 to water supply (180,000 afpy).
- Operate Jim Chapman and Wright Patman as system (108,000 afpy).
- Additional reallocation above 228.64 (undetermined).

Planning Data Gaps-Wright Patman

- What operating level of WP is reasonable due to the White Oak Mitigation facility?
- What is the expected yield of WP under the most reasonably achievable operating scenarios?
- For each operating scenario considered, what additional information must be gathered to allow consideration of this strategy as a reasonably equivalent alternative to Marvin Nichols. Can this work be done in the time remaining?
- What volume of water is available from WP after giving consideration to existing water rights holders, anticipated local needs over the term of a contract period, unexpected local need and retained local excess surplus supply for drought protection?

Permitting Data Gaps-Wright Patman

- In order to increase the water supply yield of WP, what action is needed from the following organizations or agencies?
  - US Legislature
  - Texas Legislature
  - USACE
  - TCEQ
  - TWDB
- What are the mitigation impacts for each change in reservoir operation considered?
- What is the current procedure and process for evaluating mitigation and developing a Mitigation Plan?
- What role could recent rules for mitigation banking play in each scenario?

Lake O' the Pines

- Currently available water rights (88,000 afpy).
- Reallocation of flood storage to water supply (unspecified).

Data Gaps - Lake O' the Pines

- What is the specific volume of water is available from LOP including permitted water that has not been contracted below elevation 228.5 feet msl? Are there any other consideration for existing water rights holders (including contracts that may not be fully utilized), anticipated local needs over the term of a contract period, unexpected local need and retained local excess surplus supply for drought protection?
- Has sedimentation impacted the total volume of LOP (this would reduce the amount of water available for sale)? A hydrographic study could be performed to evaluate the impact of sedimentation in the reservoir and improve the answer to how much water is available for sale to Region C.

Marvin Nichols

- Potential water supply (approximate 600,000 afpy)
- Permitting data gaps
  - Environmental permitting
  - Water rights
  - Local water needs
  - Updated costs

Lake Texoma

- Texas water rights contracted or in the process of contracting.
- Theoretically possible to reallocate hydropower storage to water supply (not likely).
- Oklahoma law against out-of-state water sales.

Toledo Bend

- Available water (500,000 – 700,000 afpy)
- Permitting/design data gaps
  - FERC
  - IBT
  - Cost estimates
  - Water rights and contracts
  - Mitigation

Socioeconomic Impact Summary

Socioeconomic Impact Summary

- Goals
  - Review available literature.
  - Determine methodology used and identify the “gaps” between the studies.
  - Provide recommendations as to how to bridge those gaps.

- Key Question:

  How can two studies using similar methodologies produce different results and how can this be avoided?

Elements of Socioeconomic Impact Analysis

Inputs (Assumptions)

Model (IMPLAN Software)

Output (Quantified Impact)

Gaps Identified

- Consistency
  - Lack of consistency in methods, assumptions used, impacts quantified, application of IMPLAN model and use of results.
  - Only consistency is actual use of IMPLAN.
- Focus
  - Studies appear to be focused based on the entity / organization that commissioned the study.
  - Some studies are narrowly focused / some broadly focused.
  - Some focus only on negative impacts, others on all impacts.
  - Leads to inconsistent results.
- Assumptions
  - Variation in assumptions leads to inconsistencies.
  - Selective use of assumptions drives focus.

Questions or Comments

Sabine River Authority of Texas

F A C T S H E E T

Date of Creation: The Sabine River Authority of Texas (SRA) was created by the Legislature in 1949 as an official agency of the State of Texas. The SRA was created as a conservation and reclamation district with responsibilities to control, store, preserve and distribute the waters of the Sabine River and its tributary streams for useful purposes.

Sabine River Basin:
Covers an area that includes 21 counties from Northeast Texas to Southeast Texas. The Basin partially lies in three regional water planning areas (Region C, Region D and Region I)

Regions C & D:

- Lake Tawakoni Reservoir
- Lake Fork Reservoir

Region I

- Toledo Bend Reservoir (Joint Project with Sabine River Authority, State of Louisiana)
- John W. Simmons gulf Coast Canal System (Orange County)

Customers:
The SRA presently supplies water to municipal, industrial and agricultural users throughout the Basin. The SRA's customers include municipal and domestic clients with the largest being the Cities of Dallas, Longview and Greenville. SRA also has industrial clients, which include DuPont, Temple-Inland and Texas Eastman.

Water Supply Planning & Development:
Water continues to be a very important issue for the State of Texas. SRA takes its responsibility to manage the long-term water supply needs of the Basin very seriously. Studies show that population will outgrow existing water supplies in the upper Basin during the next fifty year planning period.

Another study showed that moving water from Toledo Bend Reservoir to fill these needs would be cost prohibitive to in-Basin customers. As a result of these findings, SRA looked for partners in adjacent service areas with common needs to spread the costs over more water users. As part of this partnership, SRA has approximately 600,000 acre-feet available for utilization in the upper Basin and adjacent service areas as a contract for sale from Toledo Bend Reservoir. An interbasin transfer permit will be required to deliver this water outside the basin.

SRA's ongoing partnership with the City of Dallas for Lake Tawakoni and Lake Fork is an example of a successful water supply partnership between two service areas. SRA understands the growing water supply needs due to estimated population growth in Texas and stands ready to be part of the solution to this challenge.

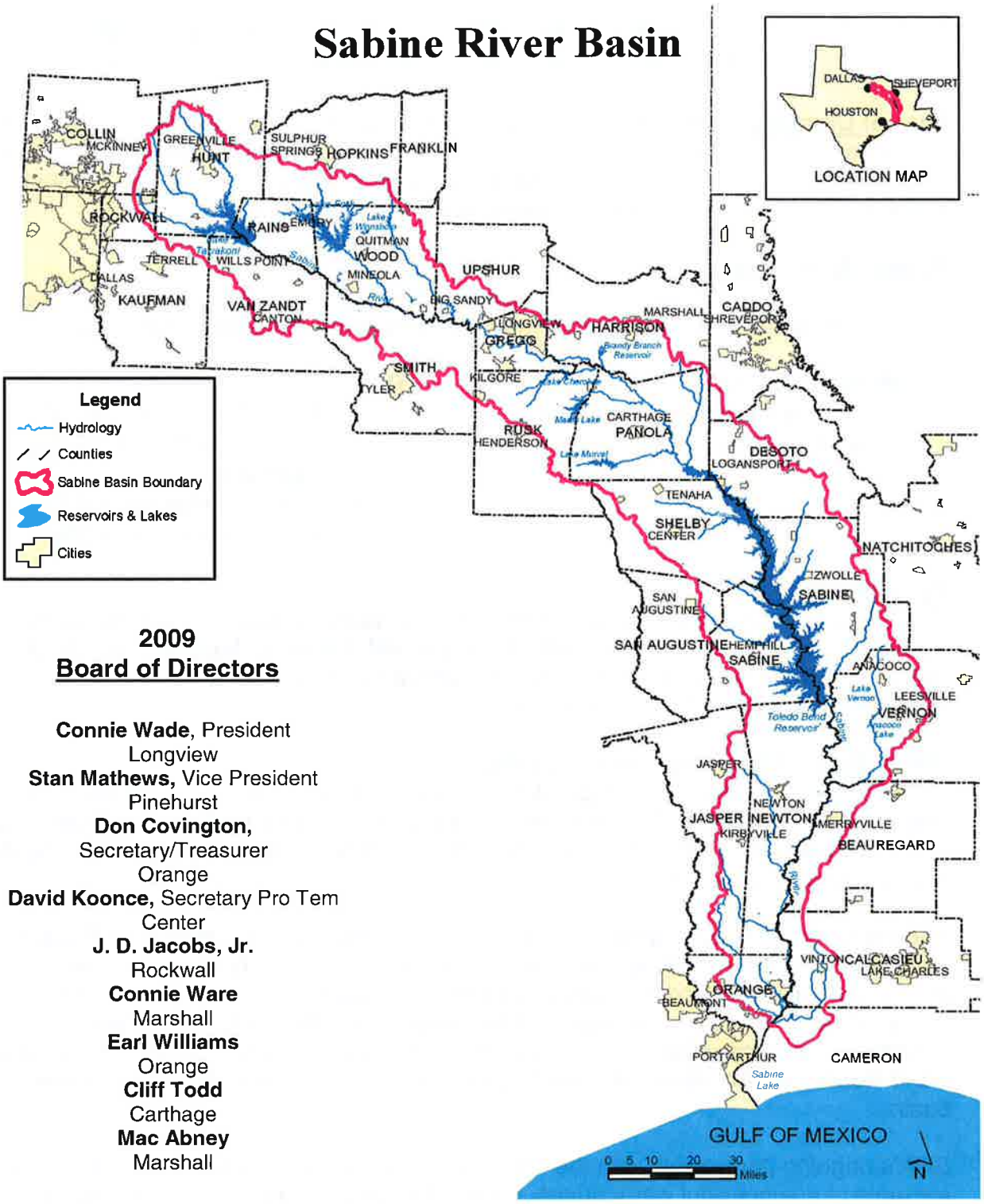
November 20, 2009

SRA
SABINE RIVER AUTHORITY OF TEXAS

www.sratx.org

P. O. Box 579
Orange, TX 77631
(409) 746-2192 Fax: (409) 746-3780

Sabine River Basin



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